ALLEGION™

# Electronic access control

**Ives®, LCN®, Schlage® and Von Duprin®**

**Spring 2021 edition**

Thank you for choosing Allegion electronic access control products. This catalog contains overviews and technical specifications. In the back of the catalog you will find wiring and riser diagrams for a number of products.

The electronic security industry is ever-changing. In order to make sure that you have the most current and up to date product information, we recommend that you register your catalog. Go to us.allegion.com/eac to register. By registering and providing your email address, you will be notified each time Allegion releases an updated version of the catalog as well as other product and solution information from Allegion.

## Additional resources

### Product Information and Learning

- Allegion Website
  www.allegion.com/us
- I Dig Hardware Blog
  www.idighardware.com
- Online Courses
  https://us.allegion.com/en/home/training.html
- Application and Installation Videos
  https://us.allegion.com/en/home/training-videos.html.html#top
- YouTube
  Schlage Security Channel
- Estimate to Order tool
  https://us.allegion.com/en/home/newsroom/2018/estimate-to-order-announce.html
- Integration Insider Newsletter
  https://us.allegion.com/en/home/trade/integrator.html

### Support

- Online Schlage Electronics Support
  https://us.allegion.com/en/home/support/library.html
- Technical library
  https://us.allegion.com/en/home/support/library.html

### Customer Care, Sales and Technical Support

1.877.671.7011

# Electronic access control catalog

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Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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SCHLAGE

# Products featuring ENGAGE™ technology

This section of the Electronic Access Control Catalog covers Schlage Control™, NDE and LE wireless locks; CTE single door controller; ENGAGE™ web and mobile apps; Von Duprin® remote undogging (RU) and remote monitoring (RM) options for exit devices, the ENGAGE™ Gateway and ENGAGE TKE test kit.

## Overview

Schlage® wireless electronic locks open the door to a new level of intelligence with optimal visibility and control. And now the Schlage Control, NDE and LE wireless locks are mobile enabled which gives users the security and convenience of using a smart device to gain access.[1] Installation is simplified by combining the lock, reader, and access control sensors into one battery-powered unit; no need to run wires to the opening. Built-in Bluetooth® enable the locks to connect directly to smartphones and tablets for easy set-up and updates. Wi-Fi® radios allow connections to existing IT networks for automatic daily updates[2] and to the ENGAGE Gateway for real-time access control with one of our Physical Access Control Software (PACS) providers.

The CTE is an ENGAGE™ enabled single opening controller that allows perimeter and common area openings to be managed in a single system along with Schlage Control™ smart locks, NDE and LE wireless locks. It is ideal for multifamily, commercial mixed use, narrow stile and retail storefront applications. The CTE is designed to work with a Schlage mobile enabled multi-technology reader and interface with an electrified lock, electromagnetic lock, electric strike, automatic operator, or exit device to control an opening.

The Von Duprin® RU retrofit kit for exit devices is a cost effective solution for secondary perimeter openings and enables remote undogging for centralized lock down and door status monitoring. It connects wirelessly to PACS providers' access control panels via an IP or RSI/ RS-485 connection to the ENGAGE™ gateway. It is a modular battery powered, with option to be hardwired, kit that can be added on to existing 98/99 and 33A/35A series devices.

## Schlage Mobile Access Solutions

Schlage offers one of the most comprehensive, secure and flexible mobile access solutions available in the industry today. The Schlage mobile enabled device offering includes the Schlage Control, NDE and LE wireless electronic locks and Schlage multi-technology readers.

Schlage mobile enabled devices are currently compatible with the Schlage Mobile Access Credential issued via ENGAGE™. Additional mobile credential compatibility is dependent on an integrated PACS provider mobile credential availability.

[1] Use of mobile credential on mobile enabled locks is dependent on availability of compatible mobile credential

[2] Wi-Fi not available on Schlage Control smart locks

# Features:

Schlage Control™, LE and NDE wireless locks are designed to work together across commercial, institutional and multifamily properties and share the following features:

- Ready for the future with the ability to read mobile credentials with mobile enabled lock options
- Built on robust, reliable mechanical platforms
- Built-in credential reader and sensors for simplified installation
- Built-in Bluetooth® and Wi-Fi[1] connectivity
- Up to 2-year battery life with typical use

Schlage NDE wireless locks feature a refined design and offer quick and easy installation. With its new interior push button with indication the NDE can be configured for storeroom, privacy, office and apartment functions. NDE locks can be ordered as mobile enabled and are compatible with most proximity, as well as smart and mobile credentials from Schlage.

Schlage LE wireless mortise locks feature an elegant design for doors with mortise prep and a wide variety of levers are available to complement any décor. Choose from Greenwich two-piece sectional or Addison escutcheon trim. There are three chassis options that all feature an interior LED indicator: standard mortise, mortise with interior push button, and mortise deadbolt. The LE can be configured for storeroom, privacy, office and apartment functions. LE locks can be ordered as mobile enabled and are compatible with most proximity, as well as smart and mobile credentials from Schlage.

Schlage Control™ mobile enabled smart deadbolts and interconnected locks are specifically designed for multifamily resident entries and are compatible with smart and mobile credentials from Schlage. Choose Greenwich or Addison trim options to match the style of the property. Keyless, no cylinder design makes the lock pick proof.

The CTE single door controller is sold with a Schlage mobile enabled multi-technology credential reader (MTB11 or MTB15) and is designed to interface with an electrified lock, electromagnetic lock, electric strike, automatic operator or exit device to control an opening.

# Benefits:

We enable a new level of efficiency and convenience by adding built-in intelligence and communication technology to our world-class mechanical locks and exit device options. Solutions featuring Schlage Control™, LE and NDE wireless locks, the CTE single door controller and Von Duprin RU and RM option can be scaled to deliver enhanced value to virtually any property or facility.

## Manage with ENGAGE™ cloud-based web and mobile applications[2]

We offer an easy, turn-key solution featuring ENGAGE™ cloud-based web and mobile applications for customers who are looking to take the first step into electronic access control. And now, ENGAGE has the capability to issue and manage Schlage Mobile Access Mobile Credentials - giving users the security and convenience of using their mobile device to gain access to ENGAGE managed openings. With this solution, the end user has the capability to configure devices, manage users, enroll credentials, assign schedules, and view audits from anywhere using the web and mobile apps. Updates can be delivered immediately at the device, automatically (overnight) when locks are connected to Wi-Fi[1] network, or with No-Tour using smart and mobile credentials to deliver updates to the lock.

## Manage with PACS provider solutions

Schlage Control™, NDE, LE wireless locks and Von Duprin RU and RM options are designed to be a part of larger electronic access control (EAC) solutions and give the ability to extend the benefits of EAC deeper into the facility. Our wireless devices have been integrated with industry leading access control software providers to offer a wide range of features and advanced capabilities that vary by system. Flexible connectivity options include RS-485, IP, Wi-Fi[1], and No-Tour by using smart credentials to update the lock. The ENGAGE™ Gateway can be used to connect Schlage wireless locks and the Von Duprin RURM to the PACS providers' access control system for real-time updates via RS-485 or IP. Please visit us.allegion.com/alliances to learn more about our PACS providers.

1 Wi-Fi available on NDE, LE and CTE only
2 Does not apply to Von Duprin RU and RM options

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SCHLAGE®

# NDE

## Wireless cylindrical lock
## NDEB – mobile enabled with interior push button
## NDE – standard

## Overview

The Schlage® NDE wireless cylindrical lock is designed to affordably extend electronic access control deeper into the building beyond traditional perimeter and high security openings. And now Schlage offers the NDE wireless lock with a mobile enabled option that gives users the security and convenience of using a smart device to gain access[1].

NDE wireless locks simplify installation by combining the lock, credential reader, door position sensor and request-to-exit switch all in one unit. NDE wireless locks require only minor modifications to existing mechanical Schlage ND cylindrical door prep; and eliminate the need to install additional components or run wires to each opening.

The new NDEB mobile enabled wireless lock also has an interior push button with indication that expands the way the lock operates to include storeroom, office, privacy and apartment functions.

NDE wireless locks can be set up and configured wirelessly with a connected smartphone or tablet - no proprietary device needed. With the ENGAGE™ cloud-based web and mobile apps, it's easy to configure lock settings, add users, and view audits and alerts from virtually anywhere. And using the built-in Wi-Fi®, automated daily updates to lock configuration and user access rights are possible.

The open architecture design allows for advanced capabilities including networked real-time communication. Using the ENGAGE Gateway and an integrated solution from one of our physical access control software (PACS) providers,[2] Schlage offers organizations the freedom to use the solution of their choice.

The NDE is ideal for office and suite entries, conference rooms, common area doors, resident units, and sensitive storage areas with cylindrical door prep. NDE suites with all Schlage ND levers and keyways, and most finishes, providing attractive options to meet the requirements of nearly any environment.

1 Use of mobile credential on the NDEB mobile enabled lock is dependent on availability of compatible mobile credential

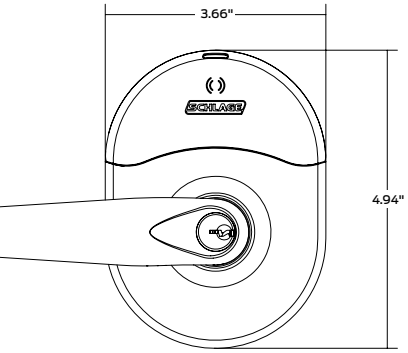
2 Integration with NDEB mobile enabled wireless locks required for operation. For information on PACS providers and their capabilities visit us.allegion.com/alliances.

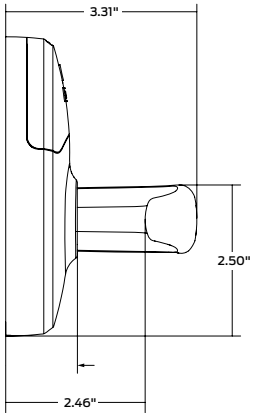
## Features and benefits

- Ready for the future with the ability to read Bluetooth (NDEB) and NFC (NDE, NDEB) mobile credentials
- NDEB includes interior push button with indication for storeroom, office, privacy, and apartment applications
- Wireless configuration from connected smartphones and tablets
- Built-in Wi-Fi® enables automated daily updates sent directly from host software
- Networked real-time communication available with the ENGAGE Gateway and PACS provider solutions
- Designed to be easy to install, connect, manage, and use
- Fits mechanical ND door prep with minor modifications
- Weather resistant design for use on perimeter doors
- Lever handing is field reversible in seconds; no tools required
- Up to 2 years of battery life

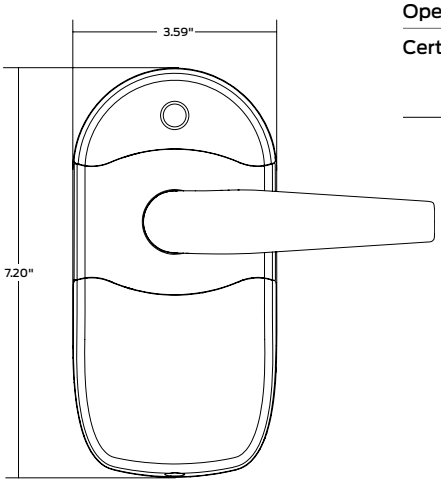
**CYBERSECURITY**
Learn about Allegion's commitment

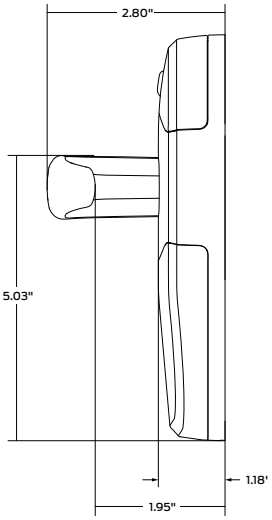
**Exterior of the lock**




**Interior of the lock**




## NDE wireless lock specifications

| | |
|---|---|
| Users | Up to 5,000[1] |
| Audits | Up to 2,000[2] |
| Credential verification time[3] | Smart and proximity: ≤ 1 second<br>Mobile: mobile device dependent |
| Visual communications | LED (red, amber, green) |
| Audible communications | Audible indicator (field configurable) |
| Communication standards | ▪ 2.4 GHz Wi-Fi® (IEEE 802.11b/g/n)<br>▪ WPA2, WPA, WEP, 802.1x<br>▪ Bluetooth® low energy (version 4.2)<br>▪ Transport Layer Security (TLS) version 1.2<br>▪ Advanced Encryption Standard (AES), 256-bit |
| Gateway communication range | Up to 30' in typical building environments. A detailed site survey is recommended using the ENGAGE Test Kit (TKE). Reference ENGAGE™ Gateway Data Sheet for additional detail. |
| Wake-Up on Radio | Responds to command from host in less than 5 seconds when linked to ENGAGE Gateway (requires PACS provider system) |
| Data rate | NDE80 = 24mbps, NDEB = 54mbps |
| Connectivity options | ▪ Mobile device (send updates at the lock)<br>▪ Wi-Fi access point (automatic daily updates[7])<br>▪ No-Tour[8]<br>▪ ENGAGE Gateway (real-time communication)<br>- RS-485 to ACP or IP to host |
| Battery life[4] | Uses 4 AA batteries<br>Up to 2 years |
| Operating temperature | Exterior: -31º to 151ºF (-35º to 66ºC)<br>Interior: 32º to 120ºF (0º to 49ºC) (battery) |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | ANSI/BHMA A156.25-2013 (Indoor/Outdoor), ANSI/BHMA A156.2-2011, Series 4000, Grade 1, UL 294, UL 10C, CSA C22.2 No. 205-M1983, FCC Part 15, IC RSS-210, ADA, ICC ANSI A117.1 |

### Functionality

- NDEB with Interior Push Button
  - Storeroom
  - Office
  - Privacy
  - Apartment
- NDE
  - Storeroom

NDEB and NDE come with Vandlgard® standard

### Available status signals

- Request-to-exit
- Door position
- Interior cover tamper[5]
- Magnetic tamper
- Battery status
- Lock/unlock status[6]
- Communication status[5]

### Flexible solutions

NDE wireless locks offer connectivity options to fit any size budget or business.

1. Mobile
2. No-Tour[8]
3. Wi-Fi
4. Real-time with ENGAGE Gateway

## ENGAGE™ cloud-based web and mobile applications

ENGAGE™ TECHNOLOGY

The ENGAGE cloud-based web and mobile applications deliver simple and convenient site set-up with basic access management for users and locks. Please refer to the ENGAGE data sheet for additional detail.

Download on the App Store

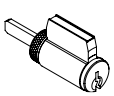
ANDROID APP ON Google play

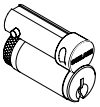
1 Maximum database storage capacity of lock. Can vary by access control software database capacity.
2 Maximum audit storage capacity of lock. Can vary by access control software audit storage capacity.
3 Response time does not include latency time of host when linked with an ENGAGE Gateway or when using No-Tour.
4 Assuming indoor application, default settings, 80 actuations, interior LED disabled and one Wi-Fi update per day.
5 Consult your access control software provider for specific scope of support.
6 Software indicates lock/unlock status based on sequence of events.
7 When using the ENGAGE cloud-based access management software.
8 With MT20W and smart credential or mobile credential (consult your access control software provider for specific support)

## Mechanical specifications

| | |
|---|---|
| Chassis | Cylindrical |
| Handing | Right-handed from factory. Field reversible in seconds (no tools required) |
| ANSI standard (Meets or exceeds) | ANSI/BHMA A156.25-2013 (Indoor/Outdoor)<br>ANSI/BHMA A156.2-2011, Series 4000, Grade 1 |
| Door thickness | Standard: 1 5/8" - 2" (41mm - 51mm) only |
| Backset | Standard: 2 3/4" (70mm)<br>Optional: 2 3/8" (60mm) |
| Latch bolt | Standard: 1/2" (12mm) throw deadlatch (steel)<br>Optional: 3/4" (19mm) throw anti-friction deadlatch available for pairs of fire doors |
| Levers | Pressure cast zinc, plated |
| Strike | Standard: 1 3/16" lip, ANSI, DPS, 1 1/4" x 4"<br>Optional: Additional strikes, lip lengths and ANSI strike box available |
| Cylinder and keys | Standard: Schlage 6-pin Everest 29 S123 keyway Conventional cylinder with two patented keys. Additional keying options available, including interchangeable cores, competitor brands, master keying and grand master keying |

## Compatible cylinders





| Schlage key systems | Conventional key-in-lever cylinder | Full size interchangeable core | Small format interchangeable core |
|---|---|---|---|
| With cylinder | P, P6, Z | M, R | G7 |
| Construction Core | ---- | T | H |
| Disposable Core | ---- | ---- | BDC |
| Less Cylinder | L | J | B |
| Compatible cylinders listed above are supported on all levers. | | | |
| Sargent - Less Cylinder | L-SAR | J-SAR | ---- |
| Corbin - Less Cylinder | L-CO6 | J-CO6, J-CO7 | ---- |
| Yale - Less cylinder | ---- | J-YA6, J-YA7 | ---- |
| Medeco - Less cylinder | ---- | J-MED | ---- |
| Six-pin competitive cylinders listed above are supported on ATH, SPA, RHO, and TLR levers. Seven-pin competitive cylinders listed above are supported on RHO levers. | | | |

## Multi-technology reader specifications

| | |
|---|---|
| Credential technologies | Proximity (125 kHz), Smart (13.56 MHz), Bluetooth Low Energy (BLE) (2.4 GHz), and Near Field Communication (NFC) |
| Standards | ISO standard 15693 and ISO 14443 |
| Maximum read range | Proximity: up to 1.25"<br>Smart: up to .75"<br>Bluetooth Low Energy: up to 15'<br>NFC: mobile device dependent |
| Proximity credential compatibility | **Compatibility:** Schlage®, ISONAS™, HID®, GE/CASI ProxLite®, AWID® and LenelProx®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, PVC adhesive disk |
| Smart credential compatibility[1] | **Secure sector compatibility:** Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire® EV1 and EV2 with PACSA<br>**CSN only compatibility:** DESFire, HID iClass®, Inside Contactless Pico Tag®, MIFARE, MIFARE DESFire EV1 and EV2[5] , ST Microelectronics®, Texas Instruments Tag-It®, Phillips I-Code®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, PVC adhesive patch |
| Mobile credential compatibility | Schlage Mobile Access Credential with Bluetooth[2], Integrated PACS mobile credential with Bluetooth[3], NFC-enabled mobile devices[4] |

## NDE to NDEB Retrofit Kit

Retrofit kits are available allowing the upgrade of existing NDE locks to the NDEB model, adding mobile enabled functionality and new functions supported by an interior push button with indication.

- Kit includes: Interior escutcheon with PCBA and DPS with lead (requires modified door prep)*

* Kit requires reuse of exterior of lock, lock chassis, existing levers/spring cages, battery cover, mounting screws and interior mounting plate.

1 No-Tour applications require a 1K Byte Schlage MIFARE smart credential
2 Supported through ENGAGE
3 Dependent on PACS provider capabilities. Visit us.allegion.com/alliances for more information
4 See minimum supported guidelines
5 Specify CE-5901-0402 for ISONAS credential parity

# Ordering information

NDEB - P6 -SPA-626

| Series | Lever cylinder | Outside | | Inside | | Backset and latch | Strike | Dim | Additional details |
|---|---|---|---|---|---|---|---|---|---|
| | | Lever style | Finish | Lever style | Finish | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

**Selections correspond with the numbers above**

Standards options are indicated in bold. See price book for specific configuration options.

| 1 | Series |
|---|---|
| NDEB | Schlage Mobile enabled cylindrical (with configurable functions) |
| NDE80 | Cylindrical (storeroom) |

Prior to ordering NDEB mobile enabled wireless locks please confirm integration status of lock with preferred PACS provider. Integration is required for lock operation within a PACS solution. For information on PACS providers and their capabilities visit us.allegion.com/alliances.

| 2 | Lever cylinder type |
|---|---|
| P6 | Schlage 6-pin Conventional key-in-lever |

See price book for other SFIC, FSIC and Less Cylinder options available. Compatible with Schlage, Sargent, Corbin and Yale.

| 3/5 | Lever style |
|---|---|
| ATH | Athens* |
| BRK | Boardwalk* |
| BRW | Broadway* |
| LAT | Latitude |
| LON | Longitude |
| OME | Omega |
| RHO | Rhodes* |
| SPA | Sparta* |
| TLR | Tubular* |

* Available with tactile surface

| 4/6 | Finish |
|---|---|
| 626 | Satin chrome |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 622 | Matte black |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

| 7 | Backset and latch |
|---|---|
| **13-247** | **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"** |

See price book for additional backset and latch options

| 8 | Strike |
|---|---|
| **47267101** | **1 1/4" x 4 7/8" with 1 3/16" lip (NDEB)** |
| **10-130** | **1 1/4" x 4 7/8" with 1 3/16" lip and magnets for door position sensing (NDE80)** |

See price book for other available strikes

| 9 | Dim (strike lip length) |
|---|---|
| **138** | **1 3/8" non-standard lip length** |

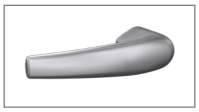
Enter only for non-standard strike lip lengths. See price book for other available non-standard lengths

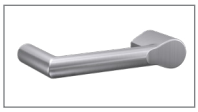
| 10 | Additional details |
|---|---|
| **S123** | **Everest 29** |

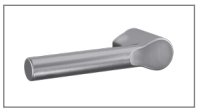
See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keying

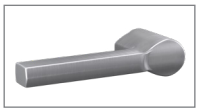
## Lever styles

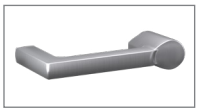
The NDE shares the same levers as the Schlage ND mechanical lock. All NDE locks feature mechanical key override; standard, SFIC or FSIC options available.

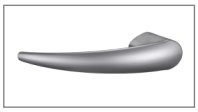

Athens

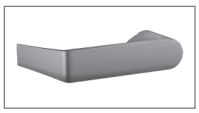

Boardwalk

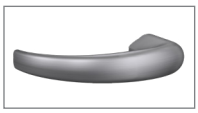

Broadway

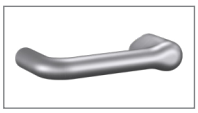

Latitude


Longitude


Omega


Rhodes


Sparta


Tubular

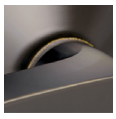
## Finishes

Warm tone finishes

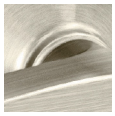
605
Bright brass

606
Satin brass

612
Satin bronze

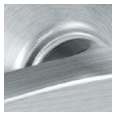

643e
Aged bronze

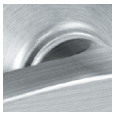
Cool tone finishes


619
Satin nickel

622
Matte black

625
Bright chrome


626
Satin chrome


626AM
Satin chrome with antimicrobial

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## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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ALLEGION

SCHLAGE

# LE

## Wireless mortise lock
## LEB – mobile enabled
## LE – standard

## Overview

The Schlage® LE wireless mortise lock is designed to affordably extend electronic access control deeper into the building beyond traditional perimeter and high security openings. And now Schlage offers the LE wireless lock with a mobile enabled option that gives users the security and convenience of using a smart device to gain access[1].

LE wireless locks simplify installation by combining the lock, credential reader, door position sensor, and request-to-exit switch all in one unit. Installation requires only minor modifications to existing mechanical mortise prep with no wires to run to the lock or additional components necessary.

LE wireless locks can be set up and configured wirelessly with a connected smartphone or tablet - no proprietary device needed. With the ENGAGE™ cloud-based web and mobile apps, it's easy to configure lock settings, add users, and view audits and alerts from virtually anywhere. And using the built-in Wi-Fi® allows for automated daily updates to lock configuration and user access rights.

The open architecture design allows for advanced capabilities including networked real-time communication. Using the ENGAGE Gateway and an integrated solution from one of our physical access control software (PACS) providers,[2] Schlage offers organizations the freedom to use the solution of their choice.

The LE is ideal for office and suite entries, conference rooms, common area doors, resident units, and sensitive storage areas with mortise door prep. LE suites with most Schlage L Series decorative levers, keyways, and finishes, providing attractive options to meet the requirements of nearly any environment.

1 Use of mobile credential on the LEB mobile enabled lock is dependent on availability of compatible mobile credential

2 Integration with LEB mobile enabled wireless locks required for operation. For information on PACS providers and their capabilities visit us.allegion.com/alliances.

3 Door position switch requires additional prep for mortise deadbolt (MD) applications

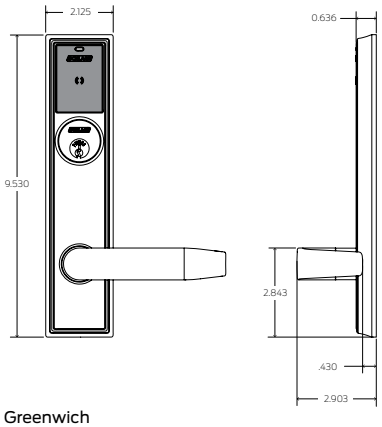
## Features and benefits

- Ready for the future with the ability to read Bluetooth (LEB) and NFC (LE, LEB) mobile credentials
- Available with indicator, interior push button, or deadbolt for storeroom, privacy, apartment, and office applications
- Wireless configuration from connected smartphones and tablets
- Built-in Wi-Fi® enables automated daily updates sent directly from host software
- Networked real-time communication available with the ENGAGE Gateway and PACS provider solutions
- Designed to be easy to install, connect, manage, and use
- Innovative integrated door position switch requires no additional door prep[3]
- Weather-resistant design for use on perimeter doors
- Suites with Schlage mechanical L Series with 31 levers and two knobs
- Up to 2 years of battery life

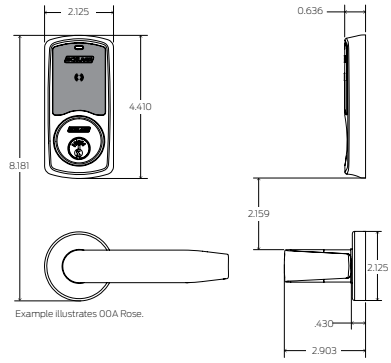
**CYBERSECURITY**
Learn about Allegion's commitment

**Exterior of the lock**

Addison

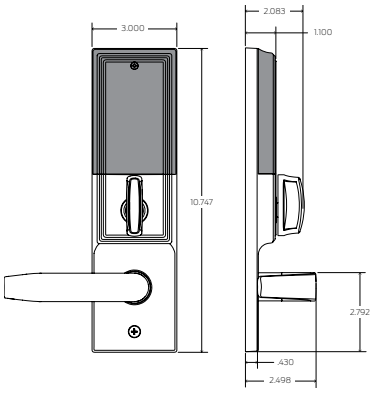



Greenwich

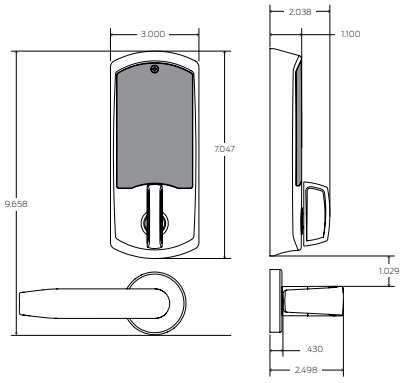



**Interior of the lock**

Addison




Greenwich




## LE wireless lock specifications

| | |
|---|---|
| **Users** | Up to 5,000 [1] |
| **Audits** | Up to 2,000 [2] |
| **Credential verification time** [3] | Smart and proximity: ≤ 1 second<br>Mobile: mobile device dependent |
| **Visual communications** | Exterior LED (red, amber, green); Interior LED (red, green) |
| **Audible communications** | Audible indicator (field configurable) |
| **Communication standards** | ▪ 2.4 GHz Wi-Fi® (IEEE 802.11b/g/n)<br>▪ WPA2, WPA, WEP, 802.1x<br>▪ Bluetooth® low energy (version 4.2)<br>▪ Transport Layer Security (TLS) version 1.2<br>▪ Advanced Encryption Standard (AES), 256-bit |
| **Gateway communication range** | Up to 30' in typical building environments. A detailed site survey is recommended using the ENGAGE Test Kit (TKE). Reference ENGAGE™ Gateway Data Sheet for additional detail. |
| **Wake-Up on Radio** | Responds to command from host in less than 5 seconds when linked to ENGAGE Gateway (requires PACS provider system) |
| **Data rate:** | 54 Mbps via Wi-Fi |
| **Connectivity options** | ▪ Mobile device (send updates at the lock)<br>▪ Wi-Fi access point (automatic daily updates[7])<br>▪ No-Tour[8]<br>▪ ENGAGE Gateway (real-time communication)<br>- RS-485 to ACP or IP to host |
| **Battery life** [4] | Uses 4 AA batteries<br>Up to 2 years |
| **Operating temperature** | Exterior: -31º to 151ºF (-35º to 66ºC)<br>Interior: 32º to 120ºF (0º to 49ºC) (battery) |
| **Operating humidity** | 0 - 100% non-condensing |
| **Certifications** | ANSI/BHMA A156.25-2013 (Indoor/Outdoor), ANSI/BHMA A156.13-2012, Series 1000, Grade 1, UL 294, ULC S319, UL10C (3-hour fire rated), FCC Part 15, IC RSS-210, ADA, ICC ANSI A117.1, FL3905,FL12400 and FL14482 |

### Chassis/functions

- MS mortise with indicator:
  - Storeroom
- MB mortise with push button:
  - Privacy
  - Office
  - Apartment
- MD mortise deadbolt:
  - Privacy
  - Apartment

Note: All functions available for LEB and LE Series

### Available status signals

- Request-to-exit
- Door position
- Interior cover tamper [5]
- Battery status
- Lock/unlock status [6]
- Communication status [5]
- Deadbolt position status (MD only) [5]
- Interior pushbutton status (MB only) [5]

### Flexible solutions

LE wireless locks offer connectivity options to fit any size budget or business.

1. Mobile
2. Wi-Fi
3. Real-time with ENGAGE Gateway
4. No-Tour[8]

## ENGAGE™ cloud-based web and mobile applications

ENGAGE™ TECHNOLOGY

The ENGAGE cloud-based web and mobile applications deliver simple and convenient site set-up with basic access management for users and locks. Please refer to the ENGAGE data sheet for additional detail.

Download on the App Store

ANDROID APP ON Google play

1 Maximum database storage capacity of lock. Can vary by access control software database capacity.
2 Maximum audit storage capacity of lock. Can vary by access control software audit storage capacity.
3 Response time does not include latency time of host when linked with an ENGAGE Gateway or when using No-Tour.
4 Assuming indoor application, default settings, 80 actuations, interior LED disabled and one Wi-Fi update per day.
5 Consult your access control software provider for specific scope of support.
6 Software indicates lock/unlock status based on sequence of events.
7 Daily update will occur within 24 hours as scheduled by the host.
8 With MT20W and smart credential or mobile credential (consult your access control software provider for specific support)

## Mechanical specifications

| | |
|---|---|
| Chassis | MS mortise with LED indicator; MB mortise with push button and LED; MD mortise with deadbolt and LED |
| Handing | Handed to order, field reversible |
| ANSI standard (Meets or exceeds) | ANSI/BHMA A156.25-2013 (Indoor/Outdoor)<br>ANSI/BHMA A156.13-2012, Series 1000, Grade 1<br>With interchangeable core cylinders: Grade 2 Security |
| Door thickness | Standard: 1 3/4" (44 mm) Optional: 1 3/4" (44 mm) to 2 1/4" (57 mm) optional (SFIC limited to 2" max) |
| Backset | Standard: 2 3/4" (70mm) |
| Latch bolt | Standard: 3/4" (19 mm) throw stainless steel latch bolt with anti-friction tongue |
| Deadbolt | Standard: 1" (25 mm) throw stainless steel deadbolt |
| Levers | Forged brass or bronze |
| Strike | Standard: ANSI 1 1/4" x 4 7/8" (32 mm x 124 mm) x 1 3/16" (30 mm) curved lip strike with dust box<br>Optional: Additional strike lip lengths and ANSI strike box available |
| Cylinder and keys | Standard: Patented Schlage 6-pin Everest 29 S123 keyway. Additional keying options available: Conventional and interchangeable cores, master keying, and grand master keying. Compatible with competitor cylinders and cams that support the L9000 Series. |
| Armored front | 1 1/4" x 8" x 7/32" (32mm x 203 mm x 6 mm) only |

## Compatible cylinders

| | Mortise cylinder | Full size interchangeable core - FSIC | Small format interchangeable core - SFIC |
|---|---|---|---|
| With cylinder | P, P6, Z | M, R | G7 |
| Less cylinder | L | J* | B* |
| Construction core | — | T | H |
| Disposable core | — | — | BDC |

*Sold with cylinder housing - less core.

Note: Available in formats to support residential customers - 5-pin cylinder with C keyways. Need to specify keyway and pinning needs. Standard if not specified - P, 6-pin Everest 29 with S123 keyway.

## LE to LEB Retrofit Kits

Retrofit kits are available allowing the upgrade of existing LE locks to the LEB model, enabling them to read BLE mobile credentials.

- Kit includes: Complete interior escutcheon with PCBA*

* Kit requires reuse of exterior of lock, lock chassis, existing levers/spring cages, battery cover, mounting screws and interior mounting plate.

## Multi-technology reader specifications

| | |
|---|---|
| Credential technologies | Proximity (125 kHz), Smart (13.56 MHz), Bluetooth Low Energy (BLE) (2.4 GHz), and Near Field Communication (NFC) |
| Standards | ISO standard 15693 and ISO 14443 |
| Maximum read range | Proximity: up to 1.25"<br>Smart: up to .75"<br>Bluetooth Low Energy: up to 15'<br>NFC: mobile device dependent |
| Proximity credential compatibility | **Compatibility:** Schlage®™, ISONAS™, HID®, GE/CASI ProxLite®, AWID® and LenelProx®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, PVC adhesive disk |
| Smart credential compatibility[1] | **Secure sector compatibility:** Schlag MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire® EV1 and EV2 with PACSA<br>**CSN only compatibility:** DESFire, HID iClass®, Inside Contactless Pico Tag®, MIFARE, MIFARE DESFire EV1 and EV2[5], ST Microelectronics®, Texas Instruments Tag-It®, Phillips I-Code®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, PVC adhesive patch |
| Mobile credential compatibility | Schlage Mobile Access Credential with Bluetooth[2], Integrated PACS mobile credential with Bluetooth[3], NFC-enabled mobile devices[4] |

[1] No-Tour applications require a 1K Byte Schlage smart credential
[2] Supported through ENGAGE
[3] Dependent on PACS provider capabilities. Visit us.allegion.com/alliances for more information
[4] See minimum supported guidelines
[5] Specify CE-5901-0402 for ISONAS credential parity

# Ordering information

LEB- MS - GRW - P6 - 07 - 626 - 00A - 17 - 612 - 00A - LH -10-136- 134 - S123

| Series | Chassis/ function | Style | Cylinder type | Outside | | | Inside (optional) | | | Handing | Strike lip | Door thickness | Key system | Additional options |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lever style | Finish | Rose (GRW only) | Lever style | Finish | Rose (GRW only) | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

**Selections correspond with the numbers above**

Standards options are indicated in bold. See price book for specific configuration options.

## 1 Series / 2 Chassis/Function

| | |
|---|---|
| LEBMS | Mobile enabled mortise with indicator only |
| LEBMB | Mobile enabled mortise with interior push button |
| LEBMD | Mobile enabled mortise with deadbolt |
| LEMS | Mortise with indicator only |
| LEMB | Mortise with interior push button |
| LEMD | Mortise with deadbolt |

Prior to ordering LEB mobile enabled wireless locks please confirm integration status of lock with preferred PACS provider. Integration is required for lock operation within a PACS solution. For information on PACS providers and their capabilities visit us.allegion.com/alliances.

## 3 Style

| | |
|---|---|
| GRW | Greenwich (sectional) |
| ADD | Addison (escutcheon) |

## 4 Cylinder type

| | |
|---|---|
| P6 | Schlage 6-pin Conventional cylinder |

See price book for other mortise cylinder, SFIC, FSIC and Less Cylinder options.

## 5/8 Lever style

Available in 31 levers and two knob styles including most M Series decorative lever options. Examples:

| | |
|---|---|
| 03 | Suites with Tubular |
| 06 | Suites with Rhodes |
| 07 | Suites with Athens |
| 17 | Suites with Sparta |
| LAT | Latitude |

## 6/9 Finish

| | |
|---|---|
| 626 | Satin chrome |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 622 | Matte black |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

## 7/10 Rose (GRW style only)

| | |
|---|---|
| 00A | 2 1/8" (54 mm) diameter |
| 00B | 2 9/16" (65 mm) diameter |
| 00C | 2 5/8" (66 mm) diameter with bevel (not available in 612 finish) |

MER and AVA decorative rose options are also available, but only with MER and ACC lever styles. Inside rose will default to outside unless specified.

## 11 Handing

| | |
|---|---|
| **RH** | **Right hand** |
| LH | Left hand |
| RHR | Right hand reverse |
| LHR | Left hand reverse |

Defaulted to Right Hand, if not specified. The chassis can be changed in the field, with some exceptions. See pricebook for additional details.

## 12 Strike plate/lip length

| | |
|---|---|
| **10-136** | **1 3/16" lip length (MS and MB)** |
| **10-072** | **1 3/16" lip length (MD)** |

Additional lip length options 7/8" to 1 3/4". See price book for details.

## 13 Door thickness

| | |
|---|---|
| **134** | **1 3/4" (44 mm)** |

Optional: 1 3/4" (44 mm) to 2 1/4" (57 mm).
2" maximum door thickness on SFIC cylinders.
See price book for additional details.

## 14 Keying type

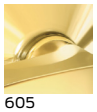
| | |
|---|---|
| **S123** | **Everest 29** |

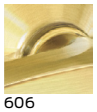
See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keying.

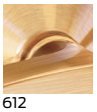
## 15 Additional options

# Finishes

Warm tone finishes


605
Bright brass


606
Satin brass


612
Satin bronze

643e
Aged bronze

Cool tone finishes

619
Satin nickel

622
Matte black

625
Bright chrome

626
Satin chrome

626AM
Satin chrome with antimicrobial

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SCHLAGE

# Schlage Control™ smart lock

## Mobile enabled wireless deadbolt and interconnected lock

## Overview

The Schlage Control™ mobile enabled smart lock was designed specifically for multifamily resident doors. It allows properties to offer smart security to residents and intelligent efficiency to property managers.

Residents will appreciate the security and convenience of using smart devices and/or smart credentials to open their doors today. And, through new compatibility with BLE mobile credentials built in, Schlage makes it possible for software providers to enable residents to arrange in-unit package delivery and other services in the future.*

The open architecture capabilities of Schlage Control mobile enabled smart locks offer properties the freedom to use the physical access control (PACS) provider of their choice to manage security and a wide spectrum of needs. Through these providers, properties are able to extend the possibilities of their locks beyond security.

For a simpler solution, managing access rights couldn't be easier than by using the ENGAGE™ cloud-based mobile or web apps. Staff can configure and manage access from virtually anywhere. And with the capability to view history of access, get usage data, receive alerts and more, ENGAGE improves the intelligence and productivity of the staff and property.

Schlage Control mobile enabled smart locks are part of an extensive portfolio from Allegion™, which offers solutions for every opening within a multifamily property.

*Dependent on PACS provider integrations and capabilities. Go to **us.allegion.com/alliances** for more information.

## Features

- New mobile enabled Schlage Control is ready for the future with the ability to read mobile and smart credentials
- Deadbolt (BE467F) and interconnected lock (FE410F) options
- Two styles with a broad selection of finishes and decorative lever designs
- Eliminates cost and hassle of managing keys
- AES-256 encryption keeps data and communications safe
- Interconnected lock provides single motion egress to comply with regional requirements
- Lock programming via smartphone or tablet (Bluetooth® connection)
- Supports networked (Gateway required), No-Tour and standalone applications

**CYBERSECURITY**
Learn about Allegion's commitment

# Design and style

Schlage Control™ mobile enabled smart locks have style options to fit the design of any property and offer full suiting with Schlage decorative mechanical locks and other Allegion solutions.

### Finish options

619 Satin nickel | 622 Matte black | 625 Bright chrome | 626 Satin chrome | 716 Aged bronze

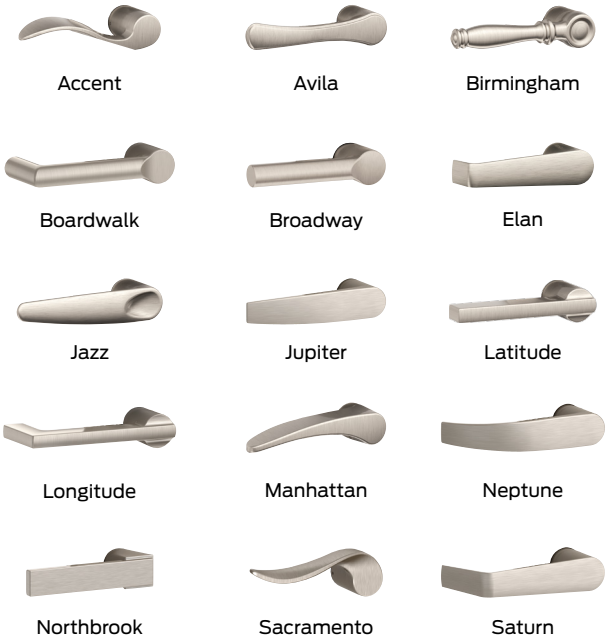
BE467F - Addison

BE467F - Greenwich

FE410F - Addison

FE410F - Greenwich

### FE410F lever options

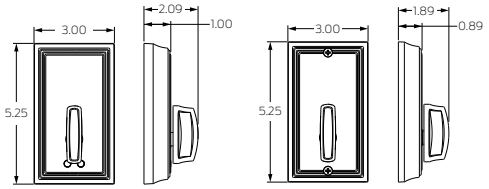



Note: Reference current pricebook to confirm finishes available by lever style.

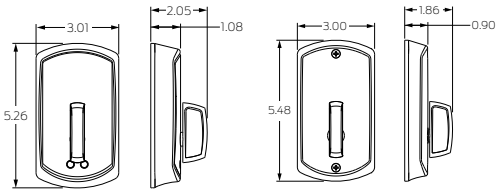
## Dimensional drawings

### BE467F

Addison - exterior / interior

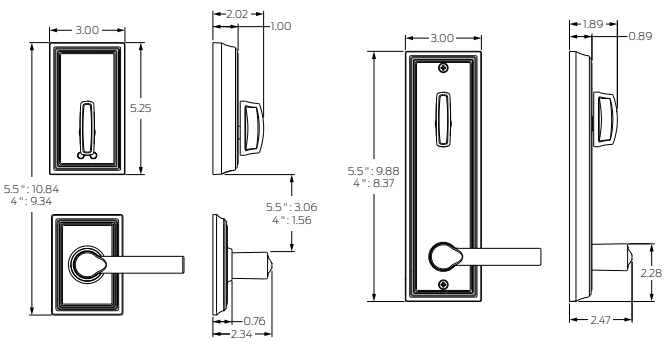



Greenwich - exterior / interior

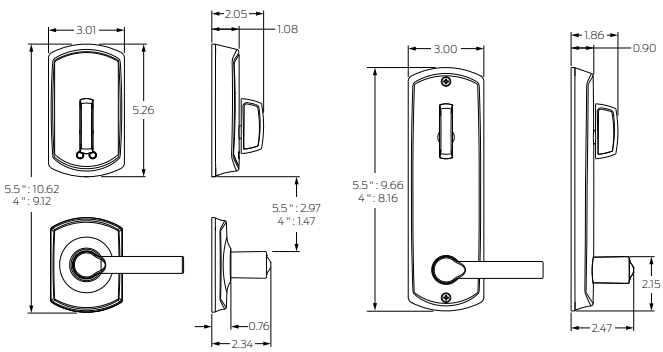



### FE410F

Addison - 5.5" and 4" exterior / interior




Greenwich - 5.5" and 4" exterior / interior



# Choice offers control

By offering the ENGAGE cloud-based web and mobile apps **and** working with the industry's best-in-class access control providers we give properties the freedom to choose.

## ENGAGE™ web and mobile applications

Simple and convenient site set-up and allows management of properties from virtually anywhere.

- Configure lock/device settings
- Add new users and enroll credentials
- Manage users and assign access privileges
- Assign lock/user schedules and holidays
- View and export audits

## PACS provider solutions

Schlage Control mobile enabled smart locks are designed with open architecture capabilities. Because of this, multifamily properties have the flexibility to select the integrated physical access management system (PACS) that best suits their needs and budget.

Visit us.allegion.com/alliances for more information on our PACS providers and their capabilities.

## Credentials

Residents are able to use a smart credential (fob, card or wristband) and/or a smart device to unlock their Schlage Control™ mobile enabled smart lock – eliminating the need for traditional keys and saving properties time and money.

# Specifications

### Electronic specifications

| | |
|---|---|
| **Users** | Up to 500[1] |
| **Audits** | Up to 1,000[2] |
| **Visual and audible communications** | Exterior LED (red, amber, green)<br>Audible indicator (field configurable) |
| **Communication standards** | ▪ Bluetooth low energy (version 4.2)<br>▪ Advanced Encryption Standard (AES), 256-bit |
| **Gateway communication range (networked solution)** | Up to 30' in typical building environments.<br>A detailed site survey is recommended. |
| **Wake-Up on Radio** | Responds to command from host in less than 5 seconds when linked to ENGAGE Gateway (requires PACS provider solution) |
| **Connectivity options** | ▪ Mobile (send updates at the lock)<br>▪ No-Tour[3]<br>▪ ENGAGE Gateway (real-time communication) |
| **Available status signals** | Battery status |
| **Battery life** | Up to 1 ½ years (offline mode), up to 1 year (BLE credential enabled); 4 AA batteries included |
| **Operating temperature** | Exterior: -31º to 151ºF (-35º to 66ºC)<br>Interior: 14º to 122ºF (-10º to 50ºC) |
| **Operating humidity** | 0 - 100% non-condensing |

### Reader specifications

| | |
|---|---|
| **Credential technologies** | Smart (13.56 MHz),<br>Bluetooth Low Energy (BLE) (2.4 GHz) |
| **Standards** | ISO 14443 |
| **Maximum read range** | Smart: up to 1.25"<br>Bluetooth Low Energy: up to 15' |
| **Smart credential compatibility** | Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire® EV1 with PACSA |
| **Mobile credential compatibility** | Schlage Mobile Access Credential with Bluetooth[4], Integrated PACS mobile credential with Bluetooth[5] |

1. Maximum database storage capacity of lock. Can vary by access control software database capacity.
2. Maximum audit storage capacity of lock. Can vary by access control software audit storage capacity.
3. With MT20W and smart credential (1K byte Schlage MIFARE smart credential) or mobile credential (consult your access control software provider for specific support)
4. Supported through ENGAGE
5. Dependent on PACS provider capabilities. Visit us.allegion.com/alliances for more information

# Specifications

## Mechanical specifications

| | |
|---|---|
| **Handing** | Field reversible (FE410F) |
| **Materials** | All-metal chassis and escutcheon |
| **Door thickness** | 1 3/4" only (thick door kit available - up 2 1/4" for BE467F, up to 2" for FE410F) |
| **Backset** | Adjustable backset, fits 2 3/8" to 2 3/4" backsets |
| **Latch** | 1" x 2 1/4" square and round corner faceplate (round corner standard, square corner included in package) 1" edge bore required |
| **Deadbolt** | Standard 1" (25 mm) throw |
| **Strike** | 1 1/8" x 2 3/4", round corner, no box, latch strike Optional: Additional strike lip lengths and ANSI strike box available |
| **Bore** | 2 1/8" |
| **Stile width** | Minimum 4 1/2" stile for 2 3/8" backset, minimum 5" stile for 2 3/4" backset |

## Certifications / Warranty

| | |
|---|---|
| **Certifications** | BE467F: ANSI/BHMA A156.36 Grade 2<br>FE410F: ANSI/BHMA A156.12 Grade 2<br>ANSI/BHMA A156.5, UL 90 minute, Canada UL 20 minute wood door rated, FCC Part 15 - Class B, FBC; ADA compliant |
| **Warranty** | Lifetime limited mechanical and finish<br>1-year limited electronics |

# Ordering information

FE410F - GRW - LAT - 626 - 55

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| Series | Style | Outside: Lever style (FE410F only) | Outside: Finish | Inside: Lever style (FE410F only) | Inside: Finish | Interconnect type (FE410F only) | Latch | Strike |

**Selections correspond with the numbers above**
See price book for specific configuration options.

| 1 | Series |
|---|---|
| BE467F | Schlage Control mobile enabled smart deadbolt |
| FE410F | Schlage Control mobile enabled smart interconnected lock |

| 2 | Escutcheon style |
|---|---|
| ADD | Addison |
| GRW | Greenwich |

| 3/5 | Lever style[1,2] (for FE410F only) | | |
|---|---|---|---|
| ACC | Accent | LAT | Latitude |
| VLA | Avila | LON | Longitude |
| BIR | Birmingham | MNH | Manhattan |
| BRW | Broadway | NEP | Neptune |
| BRK | Boardwalk | NBK | Northbrook |
| ELA | Elan | SAC | Sacramento |
| JAZ | Jazz | SAT | Saturn |
| JUP | Jupiter | | |

| 4/6 | Finish[1] |
|---|---|
| 619 | Satin nickel |
| 622 | Matte black |
| 625 | Bright chrome |
| 626 | Satin chrome |
| 716 | Aged bronze |

| 7 | Interconnect type (for FE410F only) |
|---|---|
| 4" | For doors with 4" bore hole spacing (40) |
| 5 1/2" | For doors with 5 1/2" bore hole spacing (55) |

| 8 | Latch |
|---|---|
| 12-398 | Standard for BE467F - 90 min UL Deadbolt latch dual option (sq+rd) |
| 12-356 | Standard for FE410F - Combo latch, dual option (sq+rd), non-UL bolt, UL latch |

| 9 | Strike for BE467F |
|---|---|
| 10-116 | Round corner strike, 1 1/8" x 2 3/4" - Standard |
| 10-094 | Square corner strike, 1 1/8" x 2 3/4" |
| 10-095 | Square corner full lip strike, 1 5/8" x 2 1/4" (Lip length: 1 1/8") |
| 10-092 | Round corner full lip strike, 1 5/8" x 2 1/4" (Lip length: 1 1/8") |

| 9 | Strike combinations for FE410F |
|---|---|
| 10-121 | Combo strike, square corner (10-094 and 10-026) - Standard |
| 10-109 | 10-094 and 10-001 |
| 10-119 | 10-081 and 10-001 |
| 10-122 | 10-116 and 10-027 |
| 10-123 | 10-092 and 10-027 |
| 10-124 | 10-095 and 10-027 |

1. Only specify one finish if outside and inside are the same.
2. Some levers not available in all finishes - see price book for details.

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SCHLAGE

# Mobile Enabled Retrofit Kits

For legacy Schlage NDE and LE wireless locks

## Overview

Retrofit Kits are available to upgrade legacy Schlage NDE and LE wireless locks to the mobile enabled model, enabling them to read Bluetooth mobile credentials[1]. This economic solution allows customers to upgrade current locks on their site, giving employees and residents the convenience of using their mobile phones to gain access.

[1] Use with the Schlage Mobile Access Credential or compatible PACS mobile credential solution. Consult your Allegion sales representative for more information.

## NDE to NDEB Retrofit Kits

Also supports additional functionality with a new interior push button with indication.

- Kit includes interior escutcheon with PCBA, DPS with lead (new DPS requires modified door prep)
- Kit does not include and requires reuse of exterior of lock, lock chassis, existing levers/spring cages, battery cover, mounting screws, interior mounting plate

Part number, specify finish:
47278749

## LE to LEB Retrofit Kits

- Kit includes interior escutcheon with PCBA
- Kit does not include and requires reuse of exterior of lock, lock chassis, existing levers/spring cages, battery cover, mounting screws, interior mounting plate

Part numbers, specify finish:

| Greenwich | Addison |
|---|---|
| MS - 47270614 | MS - 47270618 |
| MB - 47270613 | MB - 47270617 |
| MD - 47270612 | MD - 47270616 |

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SCHLAGE

# CTE

## ENGAGE™ single door controller with mobile enabled multi-technology reader

## Overview

The CTE is an ENGAGE™ enabled single opening controller that allows perimeter and common area openings to be managed in a single system along with Schlage Control™ Mobile Enabled Smart Locks, NDE cylindrical and LE mortise wireless locks. It is ideal for multifamily, commercial mixed use and retail store front applications.

The CTE is designed to work with a Schlage® mobile enabled multi-technology credential reader and interface with an electrified lock, electromagnetic lock, electric strike, automatic operator, or exit device to control an opening.

The CTE single door controller is designed for flexibility and can be managed with ENGAGE™ web and mobile apps or with one of our Physical Access Control Software (PACS) provider systems.

## Features and benefits

- Enables around the door solution with ENGAGE functionality
- Built-in Bluetooth and Wi-Fi
- Complete with Schlage MTB11 or MTB15 reader (Required reader interface RS-485)
- No-Tour capable
- Flexible connectivity options: manage with ENGAGE web and mobile apps or with one of our PACS providers
- Inputs: door position (DPS), request to exit (REX), request to enter (REN), remote release (REL)
- Outputs: lock relay , alarm relay, auxiliary (Aux) relay
- Input Power: 12 or 24 VDC or Power over Ethernet (PoE/PoE+)
- Provides DC output power and dry control contacts

**CYBERSECURITY**
Learn about Allegion's commitment

## CTE single door controller specifications

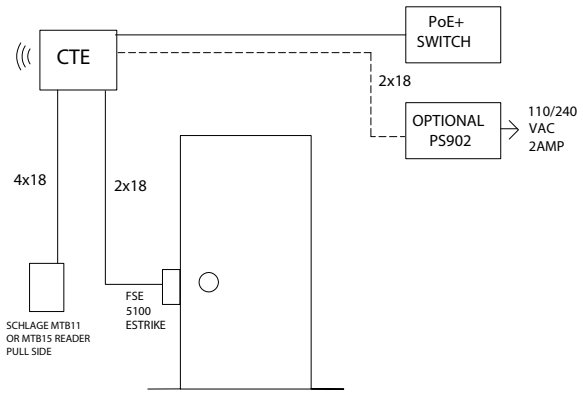
| | |
|---|---|
| Users | Up to 5,000 |
| Audits | Up to 2,000 |
| Schedules | Up to 16 |
| Holidays | Up to 32 |
| Time zones | Up to 16 |
| Communication Standards | Bluetooth low energy (version 4.2) |
| | 2.4 GHz Wi-Fi® (IEEE 802.11b/g/n) |
| | WPA2, WPA, WEP, 802.1x (PEAP) |
| | Transport Layer Security (TLS) version 1.2 |
| | Advanced Encryption Standard (AES), 256-bit |
| Gateway communication range | Up to 30' in typical building environments. A detailed site survey is recommended. Reference ENGAGE™ Gateway Data Sheet for additional details. |
| Connectivity options | Mobile (send updates at door) |
| | Wi-Fi access point (automatic daily updates) |
| | ENGAGE Gateway, IP to host (Networked wireless reader interface) |
| | No-Tour[1] |
| Power Inputs | 12 or 24 VDC at 3 Amps input for powered outputs to get Max 2 Amp output on relays, 0.5 Amp minimum input when using dry contacts. |
| | PoE/PoE+ (IEEE 802.3af/at) |
| Powered Outputs: Locking mechanism, Alarm, Aux | 12 VDC Input: 2A @ 12 VDC Max (combined output across powered outputs) |
| | 24 VDC Input: 2A @ 24 VDC Max (combined output across powered outputs) |
| | PoE Input: 0.5A @ 12 VDC Max (combined output across powered outputs) |
| | PoE+ Input: 1.5A @ 12 VDC Max (combined output across powered outputs) |
| Dry Outputs: Locking mechanism, Alarm, Aux | Locking mechanism: 2A @ 30VDC Max |
| Reader Interface | 0.3A @ 12 VDC Max (up to 500 ft.) |
| | 12 or 24 VDC Input: 12V @ 0.3A Max Output<br>POE or POE+ Input: 12V @ 0.3A Max Output |
| | Aux: 2A @ 30VDC Max |
| | Alarm: 2A @ 30VDC Max |
| | Reader (Schlage MTBXX) (Required to utilize -485 interface) |
| | Schlage MTB11 or MTB15 Reader |
| Signal Inputs | Request-to-enter (REN) |
| | Request-to-exit (REX) |
| | Remote Release (REL) -- wired |
| | Door position switch (DPS) |
| | Tamper (TAMP) |
| Operating temperature (indoor) | -31ºF (-35ºC) to 151ºF (66ºC) |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | UL 294 Indoor, FCC Part 15, NEMA Enclosure Indoor (Type 1, 4, and 4X), ULC S319 Indoor, RoHS |
| Dimensions | 2.96" x 5.89" x 7.86" |

1 With MT20W and smart credential or mobile credential (consult your access control software provider for specific support)

# The CTE single door controller with mobile enabled multi-technology reader reader kit can be used in a variety of applications. Below are a few examples:

Please note all components sold separately.

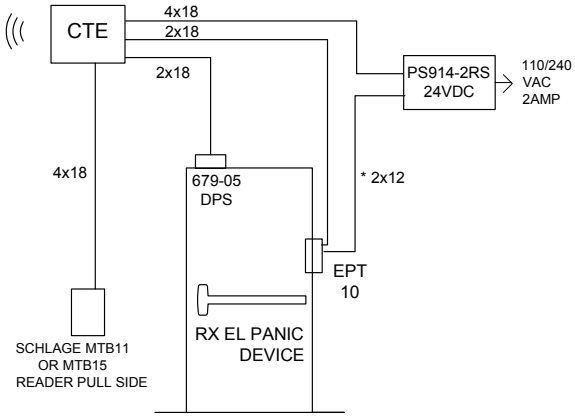
ENGAGE™ cloud via mobile device or Wi-Fi, or PACS provider via Wi-Fi or GWE with IP to host




**Operation:** Presenting a valid credential to Schlage MTBXX reader will cause fail secure 5100 electric strike to release for authorized entrance. Free egress always.

**Products:** We offer a variety of electric strikes from Locknetics® and Von Duprin®, as well as Schlage Power Supplies to meet the specific needs of the opening.

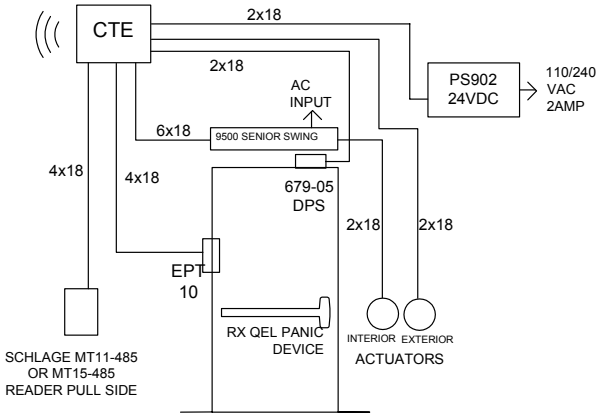
ENGAGE™ cloud via mobile device or Wi-Fi, or PACS provider via Wi-Fi or GWE with IP to host




**Operation:** Presenting a valid credential to Schlage MTBXX reader will cause EL panic device to retract for authorized entrance. Free non-alarmed egress at all times.

**Products:** We offer a variety of Falcon® and Von Duprin exit devices, and Von Duprin power supplies to meet the specific needs of the opening.

ENGAGE™ cloud via mobile device or Wi-Fi, or PACS provider via Wi-Fi or GWE with IP to host




**Operation:** Presenting a valid credential to Schlage MTBXX will cause QEL panic device to retract for authorized entrance and enable exterior actuator. Free non-alarmed egress at all times. Interior actuator always active to retract QEL panic and open door.

**Products:** We offer a variety of hardware and accessories from Von Duprin, LCN®, Schlage and Locknetics to meet the specific needs of the opening.

# Reader requirement

MTB11 MTB15

The CTE single door controller kit is available with two reader options:

- **CTE-MTB11:** CTE with mobile enabled multi-technology mullion reader kit
- **CTE-MTB15**: CTE with mobile enabled multi-technology single gang reader kit

**Notes:**

- Reader color (black or cream) can be specified; black is the default
- Custom reader configuration can be specified
- Required to utilize RS-485 interface

# Credential compatibility

## Mobile enabled multi-technology reader specification

| | |
|---|---|
| Proximity credential compatibility | **Compatibility:** Schlage®, HID®, GE/CASI ProxLite®, AWID® and LenelProx®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob and PVC adhesive disk |
| Smart credential compatibility[1] | **Secure sector compatibility:** Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE DESFire EV1 and EV2 with PACSA<br>**CSN only compatibility[2]:** DESFire, HID iClass®, Inside Contactless Pico Tag®, MIFARE, Schlage MIFARE DESFire EV1 and EV2, ST Microelectronics®, Texas Instruments Tag-It®, Phillips I-Code®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, PVC adhesive patch |
| Mobile credential compatibility | **Compatibility:** Schlage Mobile Credential with Bluetooth[3], Integrated PACS Mobile Credential with Bluetooth[4], NFC-enabled mobile devices[4] |

[1] No-Tour applications using smart credentials require minimum memory size of 8k bit/1K byte.

[2] Configuration card required to enable CSN.

[3] Supported through ENGAGE

[4] Dependent on PACS provider integrations and capabilities. Go to us.allegion.com/alliances for more information.

The CTE can operate in the same system as Schlage Control™, NDE and LE wireless locks.

Manage with ENGAGE™ cloud based web and mobile apps or with one of our PACS providers.

To learn more visit allegionengage.com.

Allegion takes a broad and deep approach to ensuring the safety and security of its products. The cybersecurity program at Allegion is designed around four pillars: security and privacy by design, built on proven security practices, security updates & vulnerability management, and testing by internal and external experts.

## ENGAGE™ cloud-based web and mobile applications

ENGAGE™ TECHNOLOGY

The ENGAGE cloud-based web and mobile applications deliver simple and convenient site set-up with basic access management for users and locks. Please refer to the ENGAGE data sheet for additional detail.

Download on the App Store

ANDROID APP ON Google play

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ENGAGE™ TECHNOLOGY

# ENGAGE™

## Cloud-based web and mobile applications

## Overview

ENGAGE™ cloud-based web and mobile applications simplify the ability to connect people, openings and access management to deliver cost effective intelligence and efficiency to any facility.

With the ENGAGE cloud-based web and mobile apps, it's easy to configure settings, manage users, assign access privileges, and view audits and alerts from anywhere. Updates to configuration and access privileges can be sent at the device with the ENGAGE mobile app. Or, to send updates without visiting the lock, leverage the existing Wi-Fi network[1] or built-in No-Tour capability[2].

Daily schedule management of an opening available with Von Duprin remote undogging (RU) using ENGAGE software via Wi-Fi. This solution is available for scheduled lock-up events only, see the RU RM datasheet for complete details.

The ENGAGE web app now has the capability to issue and manage the Schlage Mobile Access Credential - giving users the security and convenience of using their mobile device to gain access to ENGAGE managed openings. Other capabilities of ENGAGE include audit filtering, lock schedules, user schedules, and holidays. Please see page four for a complete listing of capabilities.

The ENGAGE mobile app is used to commission and connect Schlage Control®, NDE, LE, MTB, RC and Von Duprin RU RM devices to physical access control software (PACS) systems. Please visit us.allegion.com/alliances for specific support and capabilities by provider.

## System capabilities[3]

- Convenient - manage from anywhere
- Configure lock and device settings
- Add new users and enroll credentials
- Assign credential type including master, normal, toggle, freeze, pass through, blocked, and lockdown
- Manage users and assign access privileges

In addition, the web and mobile apps have these unique capabilities:

- **ENGAGE™ web app**
  - Create and assign lock/device schedules, user schedules and holidays
  - View and export audits
  - Schedule lock/device firmware updates[1]
- **ENGAGE™ mobile app**
  - Add new locks or devices
  - Assign lock/device schedules, user schedules and holidays
  - View audits
  - Send updates wirelessly at the lock or device

[1] Applies to NDE, LE and CTE with built-in Wi-Fi
[2] Applies to Schlage NDE, LE, Schlage Control™ and CTE
[3] System capabilities specific to ENGAGE web and mobile apps for basic access control. Please refer to the Von Duprin RURM datasheet for specific details about remote undogging solution.

**CYBERSECURITY**
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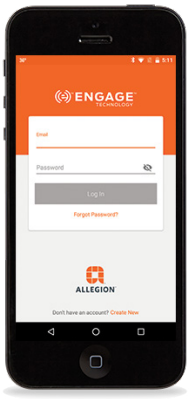
# Use the ENGAGE mobile app to commission devices and connect them to leading PACS systems




The ENGAGE mobile app is used to commission and connect Schlage Control®, NDE, LE, MTB, RC and Von Duprin RU RM devices to industry leading physical access control software (PACS) systems.

Please visit us.allegion.com/alliances for specific feature support and capabilities by provider. The details on pages 3 and 4 of this datasheet are not applicable to PACS managed solutions.

## ENGAGE™ cloud-based web and mobile applications

The ENGAGE cloud-based web and mobile applications deliver simple and convenient site set-up as well as the ability to manage users, assign access privleges and view audits and alerts from anywhere.

### TECHNOLOGY RECOMMENDATIONS

iOS, Android, and web browser specifications are available on the ENGAGE web and mobile apps page on us.allegion.com.

Download on the App Store

ANDROID APP ON Google play

## Electronic credentials

Eliminate the time and costs associated with managing keys or re-keying locks by upgrading to electronic credentials. Provide a unique credential to authorized users that can be:

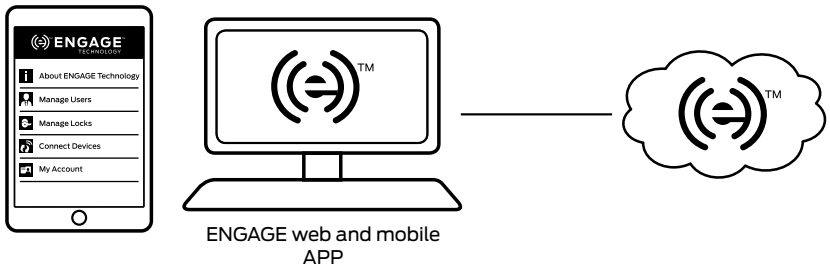
- Tracked for usage
- Added and revoked remotely
- Assigned to be valid during specific days and times
- Deleted and replaced if lost or stolen – without having to re-key the lock

**Mobile credentials (BLE 2.4 GHz):**
- Schlage® Mobile Access Credential

**Smart credentials (13.56 MHz):**
- Schlage MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1 and EV2

**Smart credentials (13.56 MHz) - card serial number only:**
- HID iClass and iClass SE
- MIFARE Classic®
- MIFARE Plus®
- MIFARE® DESFire® EV1 and EV2

**Proximity credentials (125 kHz):**
- Schlage®
- AWID®
- GE/CASI®
- HID®




ENGAGE web and mobile APP

## Manage access

Manage your site from anywhere with ENGAGE cloud-based web and mobile applications.

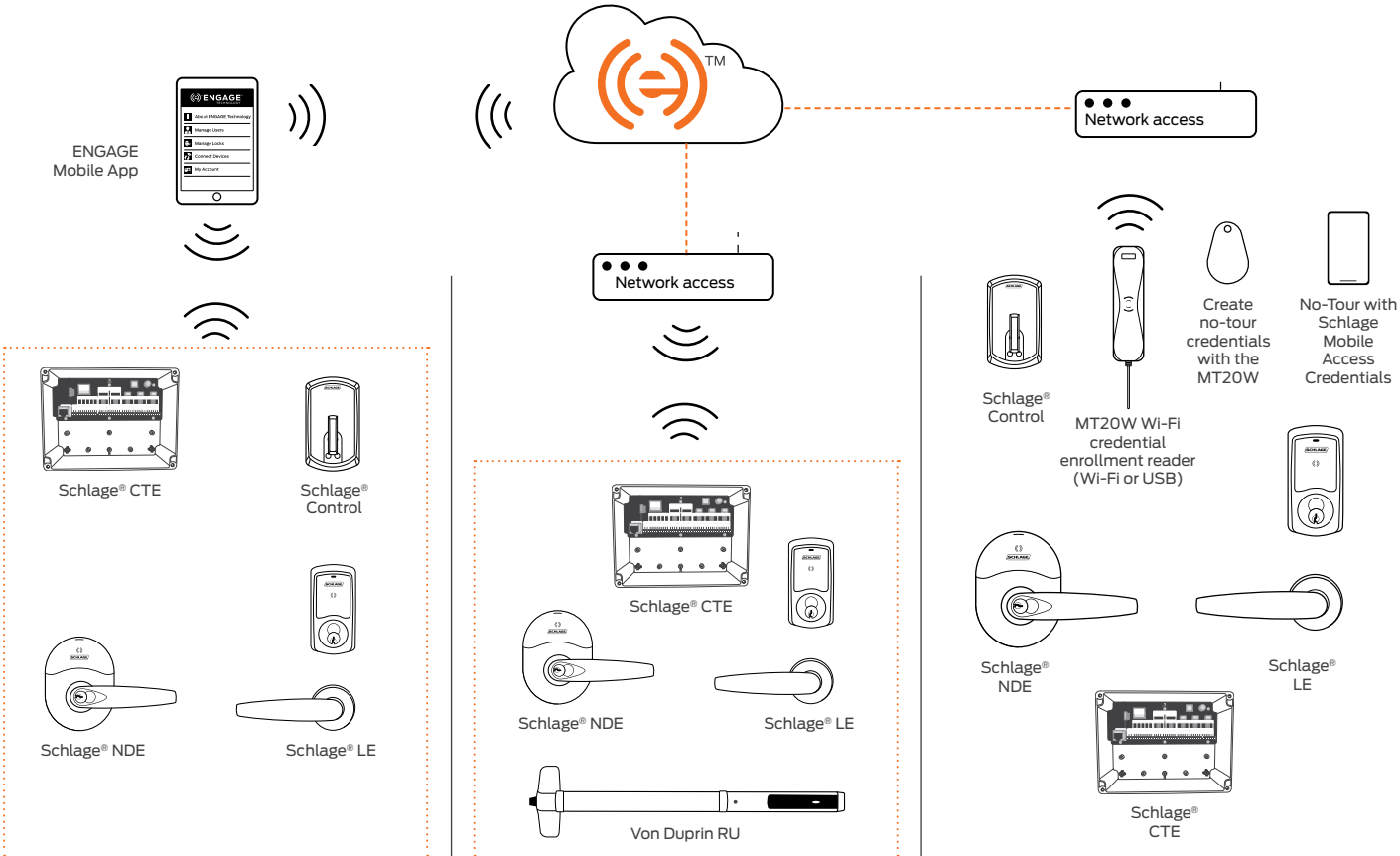
- Configure lock/device settings
- Add new users and enroll credentials
- Manage users and assign access privileges
- Set lock/device schedules, holidays, user schedules
- View and export audits and alerts
- Invite others to assist with administration

---

# Update locks and devices

Send updates wirelessly at the lock with the ENGAGE mobile application on a Bluetooth® enabled smart phone, tablet, or leverage the existing Wi-Fi network or built-in No-tour capability to send updates without visiting the lock or device.

- Update access rights
- Update lock/device settings
- Update firmware
- Perform diagnostics




## Immediate updates

Send updates at the lock/device, anytime, with the ENGAGE mobile app. Available on Schlage Control smart locks, NDE and LE wireless locks, and CTE.

## Automatic daily updates[1]

Connect/devices to the Wi-Fi network for automatic daily updates. Available on Schlage NDE and LE wireless locks, and CTE as well as Von Duprin RU.

[1] Please refer to the Von Duprin RU RM datasheet for specific details and support about remote undogging solution.

## No-Tour

Eliminate the need to visit the locks/devices by using 13.56 MHz smart or Schlage Mobile Access Credentials to deliver updates to access rights. Available on Schlage Control smart locks, NDE and LE wireless locks, and CTE.

## System capabilities:

| | Wireless offline security solution with ENGAGE technology | | | |
|---|---|---|---|---|
| | Schlage NDE cylindrical | Schlage LE mortise | Schlage Control smart deadbolt / interconnected | CTE single door controller with MTB reader |
| **System features** | | | | |
| Maximum number of locks/devices | | NDE, LE and CTE = Up to 100<br>Control = Up to 500 | | |
| Maximum number of users | | Up to 5,000[1] | | |
| Maximum number of audits | | Up to 100,000[2] | | |
| Maximum number of lock/device schedules | | Up to 16[3] | | |
| Maximum number of holidays | | Up to 32[3] | | |
| Maximum number of user schedules | | Up to 16 | | |
| **Update capability** | | | | |
| Bluetooth®[4] | Yes | Yes | Yes | Yes |
| Wi-Fi[5] | Yes | Yes | No | Yes |
| No-Tour[6] | Yes | Yes | Yes | Yes |
| **Lock functions** | | | | |
| Storeroom | Yes | Yes | n/a | n/a |
| Office | Yes[9] | Yes | n/a | n/a |
| Privacy | Yes[9] | Yes | n/a | n/a |
| Apartment | Yes[9] | Yes | Yes | n/a |
| **Status monitors** | | | | |
| Interior cover tamper | Yes | Yes | Yes | Yes[8] |
| Request to exit | Yes | Yes | n/a | Yes |
| Deadbolt position status | n/a | Yes | No | n/a |
| Interior pushbutton status | n/a | Yes | n/a | n/a |
| Forced door | Yes | Yes | n/a | Yes |
| Propped door | Yes | Yes | n/a | Yes |
| Magnetic tamper | Yes | Yes | n/a | n/a |
| Battery status (normal, low, critical) | Yes | Yes | Yes | n/a |
| Battery voltage level | Yes | Yes | Yes | n/a |
| **Credentials** | | | | |
| 2.4 GHz Bluetooth Mobile (Schlage)[7] | Yes[9] | Yes[9] | Yes[9] | Yes[9] |
| 13.56 MHz Smart[7] | Yes | Yes | Yes | Yes |
| 125 kHz Prox | Yes | Yes | No | Yes |
| **Credential attributes** | | | | |
| Normal credential | Yes | Yes | Yes | Yes |
| Toggle credential | Yes | Yes | n/a | Yes |
| Pass through credential | Yes | Yes | Yes | Yes |
| Visitor/one-time use credential | Yes | Yes | n/a | Yes |
| Freeze credential | Yes | Yes | Yes | Yes |
| Block credential | Yes | Yes | Yes | Yes |

1 Maximum number of users for a site. NDE and LE wireless locks and CTE are capable of storing up to 5,000 users. Control is capable of storing up to 500 users.
2 Audit capacity per lock for a site. NDE and LE wireless locks and CTE are capable of storing up to 2,000 audits. Control is capable of storing up to 1,000 audits.
3 Applies to NDE and LE wireless locks and CTE only.
4 Requires ENGAGE mobile application
5 Requires available Wi-Fi network with internet connection. Update will occur within 24 hours as scheduled by ENGAGE host software
6 Requires MT20W credential enrollment reader and 13.56 MHz smart credentials or Schlage Mobile Access Credentials. No-Tour support for Schlage Mobile Access Credential to be released Q2 2021
7 No-Tour functionality requires minimum 1K byte/8k bit Allegion smart credential and MT20W enrollment reader; support for Schlage Mobile Access Credential to be released Q2 2021
8 Ability to monitor tamper on reader cover
9 Requires use of mobile enabled models of locks and devices

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# MT20W

## Credential enrollment reader with ENGAGE™ technology

## Overview

The Schlage® MT20W multi-technology enrollment reader is designed to simplify the enrollment of smart and multi-technology credentials in "No-Tour" multifamily applications. Site administrators use the MT20W to program encrypted credentials, such as a keyfob, over Wi-Fi or USB connection to PC. When presented at a lock by the resident or user, the pre-programmed credentials automatically update the lock database. This eliminates the need for the property staff to have to visit each lock to deliver updates.

The MT20W is compatible with Schlage smart credentials (MIFARE Classic®, MIFARE Plus® and MIFARE® DESFire® EV1 and EV2) and supports no-tour access control when used with supported locks.

## Features and benefits

- Use your computer and the ENGAGE web app to easily enroll credentials
- Recognizes Schlage smart and multi-technology credentials (MIFARE Classic, MIFARE Plus and MIFARE DESFire EV1 and EV2)
- Simplifies credential enrollment
- Communicates to server either through a Wi-Fi connection or your computers USB port
- Limited Lifetime Warranty

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| | |
|---|---|
| Model | MT20W |
| Reader type | USB Enrollment Reader |
| Connection requirements | WiFi requires 2.4 GHz router that supports data connection speeds of 24 Mbps. USB data share via a desktop app is available as well. |
| Bit formats recognized | 26A, 32X, 34N, 34S, 35C, 37X, 37H, 40X |
| Technologies supported | Schlage MIFARE Classic Secure Sector<br>Schlage MIFARE Classic Secure Sector, Schlage MIFARE Plus Secure Sector<br>Schlage MIFARE® DESFire® EV1 and EV2 with PACSA Secure Sector |
| Physical dimensions (l x w x h) | 5.56" x 2.00" x .695" |
| Operating temperatures | 0 to 40 C<br>32 to 104 F |
| Weight | 4.1 oz |
| Power supply | Connect to powered USB port or via USB power supply |
| Interface | USB and WiFi |
| Current requirement | 160 mA |

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# Remote undogging and remote monitoring

## Overview

In many institutional facilities, traffic is funneled through main perimeter openings equipped with access control. The remaining secondary perimeter openings utilize mechanical hardware, some of which is mechanically dogged (unlocked) and undogged (locked) to enable push/pull operation. The manual management and monitoring of these openings is inefficient and prone to human error.

The Von Duprin® RU retrofit kit for exit devices is a cost effective solution for these secondary openings that enables remote undogging for centralized lock down and door status monitoring. It connects wirelessly to our access control Physical Access Control Software (PACS) providers via an IP or RSI/RS-485 connection to the ENGAGE™ gateway. It is a modular battery powered kit that can be added on to existing 98/99 and 33A/35A series devices. The RM option is a sensor only configuration for exit only or fire rate doors that require monitoring. It provides visibility to request to exit (RX), latchbolt monitor (LX) and door position switch (DPS).[2] This complementary solution enhances security by expanding the reach of the access control system to secondary openings that traditionally would go unaddressed because of the cost and complexity of running wires. Bringing these secondary openings online provides a more comprehensive perimeter security package.

[1] Assuming dog and undog sequence use rate is 2 cycles per day, exception notification rate is one occurrence every 2 days, and door use of at least 200 cycles per day (sensor and wireless activity indication).

[2] RU using ENGAGE software or PAC solution via Wi-Fi is available for scheduled lock-up events only. This solution is not available for real time lockdown.

## Features and benefits

- Access control managed via an IP or RSI/RS-485 connection to the ENGAGE gateway through PACS providers
- Modular kit compatible with 98/99 and 33A/35A series devices
- Enables undogging for centralized lockdown (via real time IP or RS-485) or scheduled lockup (via Wi-Fi or real time IP or RS-485)
- Cylinder and hex mechanical dogging is maintained but can be overridden electronically
- Enables comprehensive view of door status via request to exit (RX), latchbolt monitor (LX) and door position switch (DPS)
- Sensor only configuration version (RM) available for exit only doors or fire rated doors
- Battery life up to 2 years with 4 standard AA batteries[1]
- Electronics Certifications: UL294 indoor, FCC Part 15 - Commercial

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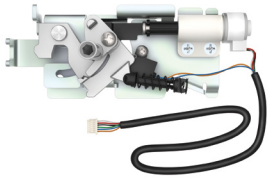
**Main components of RU kit:**

Cover

Battery housing/batteries/main PCB



Undog assembly

LX/DPS and RX switch assembly

## Wireless specifications

| | |
|---|---|
| Audits | Up to 2,000[1] |
| Visual communications | LED (red, amber, green) |
| Audible communications | Audible indicator (field configurable) |
| Communication standards | ▪ Bluetooth low energy (BLE) (version 4.2)<br>▪ Advanced Encryption Standard (AES), 256-bit<br>▪ 2.4 GHz Wi-Fi® (IEEE 802.11b/g/n)[2]<br>▪ WPA2, WPA, WEP, 802.1x<br>▪ Transport Layer Security (TLS) version 1.2 |
| Communication range | Up to 30 ft. |
| Wake-Up on Radio | Responds to command from host in less than 5 seconds when linked to ENGAGE Gateway (requires PACS provider system) |
| Connectivity options | ▪ IP or RSI/ RS-485 connection to the ENGAGE™ gateway<br>▪ BLE to mobile devices<br>▪ BLE to ENGAGE Gateway<br>▪ Wi-Fi (ENGAGE software enabled or PAC enabled where integrated)[2] |
| Battery life | Up to 2 years with 4 AA batteries[3] |
| Operating temperature | -4° to 140°F (-20° to 60°C) |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | **Exit Devices will maintain the following:** BHMA A156.3 (Grade 1), UL305, Windstorm WX98/9927, Tornado FEMA 361 ANSI/ICC500, ADA ANSI A117.1, UL 10C 3 hour, ANSI/BHMA 156.18-2012 QUV<br>**Electronics Certification:** UL294 indoor, FCC Part 15 - Commercial |

## Available status signals

- Request-to-exit
- Door position
- Interior cover tamper[4]
- Magnetic tamper
- Battery status
- Dog/undog status[5]
- Communication status[4]

## ENGAGE™ mobile applications

The ENGAGE mobile application delivers simple and convenient site device set-up.

[1] Maximum audit storage capacity of lock. Can vary upon access control software audit storage capacity when linked with an ENGAGE Gateway RS-485 to ACP.

[2] For offline management only.

[3] Assuming dog and undog sequence use rate is 2 cycles per day, exception notification rate is one occurrence every 2 days, and door use of at least 200 cycles per day (sensor and wireless activity indication).

[4] Consult your access control software provider for specific scope of support.

[5] Software indicates dog/undog status based on sequence of events.

## Mechanical specifications

| | |
|---|---|
| Dogging Options | Cylinder Dogging, Hex Dogging |
| ANSI standard (Meets or exceeds) | ANSI/BHMA A156.25-2013 (Indoor/Outdoor)<br>ANSI/BHMA A156.2-2011, Series 4000, Grade 1 |

## Compatible exit devices

| | 33A/35A* | 98/99* |
|---|---|---|
| RIM | ✓ | ✓ |
| SVR | ✓ | ✓ |
| CVR | ✓ | ✓ |
| CVC | ✓ | ✓ |
| Mortise | – | – |
| 3 pt latch | ✓ | ✓ |

***For devices manufactured after 9/1997.**

RU not compatible with exit devices with the following options:
QEL, DI/CDSI/HDSI, RX2, AD, SD, SS, PN, ES/PL, CX, XP

RM not compatible with exit devices with the following options:
DI/CDSI/HDSI, RX2, AD, SD, SS, PN, ES/PL, CX, XP

## Compatible device lengths

For Remote Undogging (RU) Module installation: All 33A/35A and 98/99 device types – 3' (914 mm) length to 2' 9" (838 mm), 4' (1219 mm) length to 3' 3" (991 mm)

For Remote Monitoring (RM) Module only: All 33A/35A and 98/99 device types – 3' (914 mm) length to 2' 8 3/4" (832 mm), 4' (1219 mm) length to 3'2 3/4" (984 mm)

For Remote Monitoring (RM) Module with EL/QEL: All 33A/35A and 98/99 device types – 3' (914 mm) length only, 4' (1219 mm) length to 3' 5 1/8" (1045 mm)

## How to order

| | |
|---|---|
| Remote Undogging | |
| RU 3' kit | 47258681 |
| RU 4' kit | 47258682 |
| Remote Monitoring | |
| RM 3' kit | 47258683 |
| RM 4' kit | 47258684 |

If the door and exit device are fire rated, and the exit device type is a 98/99-F Rim manufactured prior to April 1, 2018, a new center case will be required before proceeding with the installation of the RM kit. 98/99-F Rim Center Case Kit Less Cover, part number 050026.

**NOTE:** Specify CON for Allegion Connect

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ENGAGE™ TECHNOLOGY

# GWE Gateway

## ENGAGE™ Gateway with IP (PoE) and RS-485 communication

## Overview

The ENGAGE™ Gateway is designed to be used with devices that feature ENGAGE™ technology, including Schlage® Control™, LE, NDE, CTE as well as Von Duprin® Remote Undogging (RU) and Remote Monitoring (RM). The ENGAGE Gateway enables these devices to be connected in real-time with Physical Access Control Software (PACS) providers. Each ENGAGE Gateway can support up to 10 wireless devices for a wide range of applications, including resident units, office and suite entries, conference rooms, sensitive storage areas and perimeter entries.

### Security

ENGAGE technology was designed from the ground up with security in mind. ENGAGE technology leverages industry-leading security practices, including AES 256 bit and TLS encryption to provide customers with a secure, dependable experience.

### Reliability

Regular, frequent communication between the Gateway and linked ENGAGE™ enabled devices allows the Gateway to send commands such as lock, unlock and lock down from an ACP or IP host in real-time (commands are executed in < 5 seconds). All while enabling up to a 2-year battery life in linked wireless devices.

### Efficiency

The ENGAGE Gateway provides the ability to leverage existing IP based or RS-485 infrastructure for maximum efficiency. Ethernet connectivity provides ability to connect to the network for real-time access control directly from an in- or out-of-network host; to further simplify installation the Gateway can be powered over ethernet (PoE). Additionally, the ENGAGE Gateway is designed to work seamlessly in an existing RS-485 environment to extend access control to more doors. It can be powered from the access control panel (ACP) or from the 12VDC supply (included).

## Features and benefits

- Small form factor, versatile design fits almost anywhere
- Plug and play connectivity without opening or drilling into the housing. External recessed power, antenna, RS-485 and Ethernet (PoE) ports for easy set-up
- Designed to work seamlessly in an existing RS-485 environment
- Designed with PoE built in to leverage a building's existing network infrastructure for communication and power
- Easily and securely commissions in seconds with the ENGAGE™ mobile app—no proprietary handheld device required
- Secure AES-256 bit encrypted 2.4 GHz Bluetooth 4.0 communication between Gateway and ENGAGE™ enabled devices does not interfere with Wi-Fi networks
- Capable of managing up to 10 ENGAGE enabled devices
- Optional 12 VDC external power supply included to achieve UL294 Listing

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## Gateway specifications

| | |
|---|---|
| Communication protocol (Gateway to Lock) | 2.4 GHz Bluetooth version 4.0 (spread spectrum, dynamic channel switching, 40 channels) |
| Transmission/encryption (Gateway to Lock) | AES-256 bit key |
| Credential verification time | < 1 second[1] |
| BLE communication range | A detailed site survey is recommended to determine range in each unique environment. Up to 30' can be achieved in typical building environments. Under ideal conditions, up to 50' line of sight may be possible. A detailed site survey is recommended to determine if the extended range can be achieved. Performance is dependent on local physical (geometry, construction materials, and furnishings) and RF environment. For planning purposes users should consider estimating at least 10% contingency for Gateway quantity.<br><br>The TKE ENGAGE Test Kit is now available for site surveys. Reference the ENGAGE Gateway Placement Guide for details. |
| Visual communications | LED status indicators |
| System interface | Ethernet to IP host[2]<br>RS-485 to ACP[3] |
| Transmission/encryption (Gateway to ACP or IP host) | TLS version 1.2 or greater (to IP host)<br>Optional AES-128 bit key (to ACP) |
| Gateway Discovery Methods (by partner IP host) | Zero-configuration (zeroconf), Static IP, or DHCP with hostname option |
| Power supply | PoE (12.95W compliant to IEEE 802.3af/at)<br>12 VDC or 24 VDC (terminals) |
| Operating current | PoE: 60 mA<br>12 VDC: 330 mA, 24 VDC: 100 mA |
| Operating temperature | 32º to 120ºF (0º to 49ºC) |
| Operating humidity | 0% to 100% non-condensing |
| Dimensions (H x W x D) | 5.1" x 6.0" x 1.2"<br>(13.0 cm x 15.3 cm x 3.04 cm) |
| Weight | 8.6 oz (.24 kg) |
| Cable specifications | DC terminal input: 18AWG, 2 conductor (Belden 8760 or equivalent) up to 1000 ft (305 m)<br>Gateway to ACP: 24AWG, 2 or 4 conductor shielded (Belden 9842, 9841 or equivalent) up to 4000 ft (1219 m)<br>Gateway to router: CAT3, CAT5/5E or CAT6 up to 328 ft (100 m) |
| Data rate | Gateway to Lock: up to 1 Mbps (Bluetooth)<br>Gateway to ACP: 9.6 kbps (RS-485)<br>Gateway to IP Host: up to 100 Mbps (Ethernet) |
| Certifications | UL294, FCC Part 15, Industry Canada(IC), RoHS |

# Additional features

**Real-time communication**
Regular, frequent communication between the Gateway and linked ENGAGE enabled devices allows the Gateway to send commands such as lock, unlock and lock down from an ACP or IP host in real-time (commands are executed in < 5 seconds). All while enabling up to a 2-year battery life in linked wireless devices.

**Secure encrypted transmissions**
All communications between the Gateway, the ENGAGE mobile app and ENGAGE enabled devices are encrypted with an AES-256 bit key to provide virtually uncompromisable security. Additionally, all communications between the Gateway and an IP host over an existing network are secured with TLS 1.2 (or newer) encryption.

**Visual indications**
- Power up
- Factory default state
- Connected to mobile device
- Normal operation
- Linking status
- Diagnostics

**Edge device status* (available through host connection)**
- Card data
- Door position
- Loss of communication
- Request-to-exit
- Low battery
- Interior cover tamper guard
- Lock/unlock status
- Request-to-enter
- Deadbolt position
- Interior push button

**Configurable items from Gateway***
- Relock parameters
- Card data format conversion
- Extended unlock
- Fail safe/fail secure/fail as-is
- Door held pre-alarm
- Cache memory parameters
- Reader configuration
- Keypad configuration
- Inside pushbutton configuration
- User interface configuration

*Capability varies by edge device. Refer to device solution sheet.

# Ordering information

- GWE – ENGAGE™ Gateway with RS-485 and IP (PoE) connectivity. Supports up to 10 ENGAGE™ enabled devices with select brands of access control panels.

1 Dependant on latency time of access control system
2 Supports NDE, LE, CTE,Schlage Control Smart locks and Von Duprin RU and RM
3 Supports NDE, LE and Von Duprin RU and RM

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# TKE

## ENGAGE™ Test Kit

## Overview

The ENGAGE™ Test Kit (TKE) helps evaluate system design prior to installation of new ENGAGE wireless networked systems which utilize the ENGAGE GWE Gateway. The TKE can also be used to diagnose signal quality and signal strength in existing ENGAGE wireless applications.

ENGAGE enabled locks and devices communicate via 2.4 GHz Bluetooth® Low Energy (BLE) to the ENGAGE Gateway which is required for communication between ENGAGE devices and the access control panel for networked, real-time solutions using one of our integrated PACS providers.

The ENGAGE Test Kit transponder is used to communicate to the ENGAGE Gateway as an access control module. By using the ENGAGE mobile app to conduct the survey it is possible to obtain clear and comprehensive results during the survey. LED lights and numerical data provide intuitive feedback about the quality and strength of the 2.4 GHz Bluetooth Low Energy (BLE) signal[1]. By obtaining feedback on two different data points in the same test it makes it easier to identify issues and optimize placement of the gateway.

The communication range of ENGAGE enabled devices to the gateway is up to 30 feet with normal building construction. The TKE can be used to determine the proper location of each Gateway to optimize system design. When installed properly, an ENGAGE wireless solution is an extremely reliable and cost-effective alternative to a hardwired networked system.

## Features and benefits

- Allows testing of 2.4 GHz Bluetooth Low Energy (BLE) signals between ENGAGE enabled devices and ENGAGE Gateway[1]
- Assists in accurate system design and quoting process
- Ensures proper location of gateways for efficient system installation
- Can be used to test existing installations for signal quality and strength
- Numerical and color indication of signal strength and quality; green for strong connection, red for weak connection
- For use with Schlage Control™, NDE, and LE wireless locks, Schlage CTE single door controller and Von Duprin® exit devices with the RU/RM option
- Power supply, rechargeable battery and tripod included in kit for on-site convenience

1. Kit does not support testing of Wi-Fi signals or standalone installations.

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## ENGAGE Test Kit transponder specifications

| | |
|---|---|
| Frequency | 2.4 GHz Bluetooth Low Energy (BLE) version 4.0 |
| Communication range | Up to 30 ft with obstructions (normal building) |
| Operating temperature | 32º to 120ºF (0º to 49ºC) |
| Battery type | 4AA alkaline batteries |
| Dimensions (H x W x D) (excluding wire fastener) | 7.20" x 3.59" x 2.80" (18.29 cm x 9.12 cm x 7.11 cm) |
| Certifications | ▪ FCC Part 15<br>▪ Industry Canada (IC)<br>▪ RoHS |

## ENGAGE GWE Gateway specifications

| | |
|---|---|
| Frequency | 2.4 GHz Bluetooth Low Energy (BLE) version 4.0 |
| Communication range | Up to 30 ft with obstructions (normal building) |
| LED user interface | Power on, linking status, connection to mobile device |
| Operating tempurature | 32º to 120ºF (0º to 49ºC) |
| Power | 12 VDC or 24 VDC<br>(12 VDC power supply and rechargeable lithium battery included) |
| Dimensions (H x W x D) | 5.1" x 6.0" x 1.2"<br>(13.0 cm x 15.3 cm x 3.04 cm) |
| Weight | 8.6 oz (.24 kg) |
| Certifications | ▪ UL 294<br>▪ FCC Part 15<br>▪ Industry Canada (IC)<br>▪ RoHS |

## ENGAGE Test Kit contains:

- ENGAGE GWE Gateway and mounting bracket
- Two ENGAGE transponders
- 12 VDC power supply
- Rechargeable battery
- Quick start guides
- 9 foot tripod
- Backpack

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# Networked locking

This section of the Electronic Access Control catalog covers networked AD Series adaptable electronic locks and other devices and accessories that can be easily integrated into an access control system.

## Overview

The AD Series was built from the ground up to provide more options, more functionality and more compatibility than any other electronic locking solution on the market today. The AD Series meets today's security needs while also easily adapting to future needs as they emerge. The AD Series is designed on an open architecture platform to provide users with enhanced flexibility and scalability, resulting in an investment that's every bit as secure as your facility.

### Features

The AD Series simplifies installation by combining the electrified lock, reader, door position switch, request-to-exit, and other status monitors together. Panel interface options such as RS-485, Wiegand and Clock and Data ensure seamless, real-time communication with the access control system. The AD Series is available with nine different credential reader options. For added convenience, security personnel can configure failure modes, card formats and other features in the field. The AD Series is compatible with most popular models of Conventional, SFIC and FSIC cylinders. It is also compatible with popular exit devices with low current REX switches including Von Duprin 98/99 and 98/99XP (Rim, Mortise, SVR and CVC/CVR on metal doors only), Von Duprin 22/22F (Rim and SVR only) as well as Falcon 25 (rim only). The AD Series is ANSI/BHMA A156.25, ANSI/BHMA Grade 1 certified and is UL 294 Listed.

### Benefits

The modular design of the AD Series creates an easy and affordable way to expand a security system and integrate emerging technologies over time and when budgets permit. Customers can easily upgrade readers or networking options – all without having to remove the lock from the door. And the wireless technology gives you the option to install access control on doors that have traditionally been difficult to wire while providing real-time monitoring and centralized lockdown capabilities. The AD Series was designed to be the right choice for today, and ready for whatever the future holds. With the AD Series you can be assured that your investment is every bit as protected as your facility.

### Mobile credentials

Schlage AD Series locks (as well as Schlage NDE and LE Series wireless locks and wired multi-technology readers) are compatible with NFC technology on Android and iOS devices. Allegion helps universities across the country achieve frictionless student experiences via contactless student IDs in Apple Wallet and Google Pay.

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# Lock options:

AD Series networked locks have several options to choose from including:

- **Class:** AD-300 hardwired, AD-400 wireless, AD-302 FIPS 201-2 compliant, AD-402 FIPS 201-2 compliant (Choice of class may limit other available options)
- **Chassis:** Cylindrical, mortise, mortise deadbolt, exit trim
- **Function[1]:** Classroom/storeroom, office, privacy, apartment
- **Reader[1]:** Keypad, magnetic stripe, smart and multi-technology (proximity 125 kHz, smart card 13.56 MHz and NFC mobile). All card readers are available with + PIN option for added security.
- **Lever style:** Athens, Broadway, Boardwalk, Latitude, Longitude, Rhodes, Sparta and Tubular (Tactile warning options available)
- **Finish:** 626 satin chrome, 605 bright brass, 606 satin brass, 612 satin bronze, 619 satin nickel, 625 bright chrome, 643e aged bronze, 626AM satin chrome with antimicrobial
- **Keyway/cylinder:** See lever and cylinder compatibility data sheet (010432)
- **Exit trim:** See AD Series exit trim compatibility data sheet (004382)

**AD Series FIPS 201-2 compliant solution:**
The AD Series is an ideal solution for applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-2 compliance. In order to meet requirements, the AD Series lock must be part of an integrated system tested and formally approved to meet the government FIPS 201-2 criteria. Refer to the Approved Products list to see what Physical Access Control Software (PACS) providers have met the requirement and are permitted to deploy AD-302 and -402 electronic locks in your facility.

It is possible to upgrade existing, non-compliant AD Series locks to the new standard. Please reference the AD-302 or AD-402 pages for more information.

# Extend the reach of access control with proven 900 MHz wireless technology

The Schlage AD Series wireless system allows users to extend the reach of access control to areas where running wires is difficult, expensive or virtually impossible. Installations on interior doors, remote doors, historic buildings, 24/7 facilities, elevators and parking gates are now made possible by eliminating the need to run wires directly to the access point. Options are available to accommodate Wiegand or Clock and Data, as well as RS-485 connections to the access control system.

The AD Series wireless system communicates via 900 MHz frequency to a Panel Interface Module (PIM) which is then hardwired back to the access control panel. Each PIM can support up to 16 wireless devices within a 200' range in most facilities and up to 1000' with clear line of sight. The 900 MHz band enables longer transmission ranges; wavelengths travel a greater distance and better penetrate typical building construction – allowing for simplified system design. And since 900 MHz operates on a different frequency versus Wi-Fi®, it won't burden existing IT infrastructure.

Secure and reliable wireless communication (heartbeat) from the PIM to the access control system occurs on a periodic basis and is field configurable; the factory default is set at 10 minutes. The AD Series wireless system utilizes patented Wake-Up On Radio™ technology to deliver real-time activation at a remote wireless lock while maintaining up to a 2 year battery life. This feature, which is configurable from 10 seconds to as fast as 1 second, enables centralized emergency lockdown and unlock commands in applications where both speed and battery life are critical.

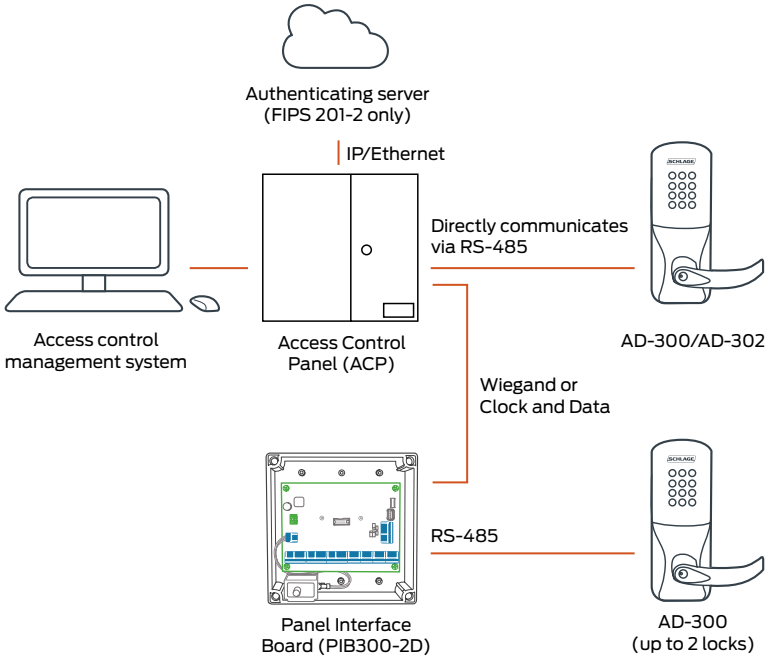
In addition to the AD Series locks, a variety of wireless devices are available to extend the reach of access control to applications which may be difficult to wire. These include wireless remote antennas (ANT400), Wireless Portable Readers (WPR400), Wireless Reader Interfaces (WRI400), Wireless Repeaters (REPTR400), Wireless Gate Control Kits (GCK400), and Wireless Elevator Control Kits (ECK400).

Notes:

1 Check with PACS provider to verify support of reader/credential formats and lock functions.

# AD-300 and AD-302 FIPS 201-2 compliant networked hardwired solution:

- Direct connection from lock to ACP via RS-485 with specific Allegion PACS provider systems.
- PIB300-2D required for Wiegand or Clock and Data connection; supports up to 2 AD-300 locks.
- Utilize relay/dry contact board (RLBD) if supervised inputs are required in Wiegand systems.
- Verify requirements for reader Interface or gateway with your access control provider.
- FMK reader can now be ordered as separate component for upgrade to a FIPS 201-2 compliant lock. It must utilize the most most current firmware and be applied within a FIPS 201-2 approved PACS provider system. See Approved Products list for further detail.



## AD-300/AD-302 Hardwired lock features

| Communication to/from controller | Direct - RS-485 | Wiegand or Clock and Data |
|---|---|---|
| **Features**<br>Consult with PACS provider for specific requirements | | |
| Panel interface module | N/A | PIB300-2D (AD-300 only) |
| Number of locks per panel interface module | N/A | Up to 2 |
| **Reader options**<br>Consult with PACS provider for supported card formats | | |
| Keypad only | AD-300 only[1] | AD-300 only[1] |
| Magnetic stripe card | AD-300 only[1] | AD-300 only[1] |
| FIPS 201-2 multi-technology - 125 kHz and 13.56 MHz | Yes[1, 2] | N/A |
| Multi-technology - 125 kHz, 13.56 MHz and NFC mobile[4] | Yes[1] | Yes[1] |
| PIV and PIV-I compatible[2] | Yes[1, 2] | Yes[1, 2] |
| Smart – iClass compatible | Yes[1] | Yes[1] |
| Card + PIN | Yes[1] | Yes[1] |
| **Status monitors**<br>Consult with PACS provider for supported card formats | | |
| Request-to-exit | Yes[1] | Yes[1] |
| Door position switch | Yes[1] | Yes[1] |
| Mechanical key override (ATK) | Yes[1] | No |
| Request-to-enter | Yes[1] | Yes[1] |
| Low battery status | N/A | N/A |
| Communication status: RF/RS-485 | Yes/ Yes[1] | Yes/ Yes[1] |
| Remote lockdown/unlock | Yes | Yes |
| Deadbolt position | Yes[1] | No |
| Interior push button | Yes[1] | No |
| **Functions**<br>Consult with PACS provider for specific support | | |
| Classroom/storeroom (70) | Yes[3] | Yes[3] |
| Privacy (40) | Yes[1] | No |
| Office (50) | Yes[1] | No |
| Apartment (60) | Yes[1] | No |

1 As supported by PACS provider. NFC not supported by AD-302.

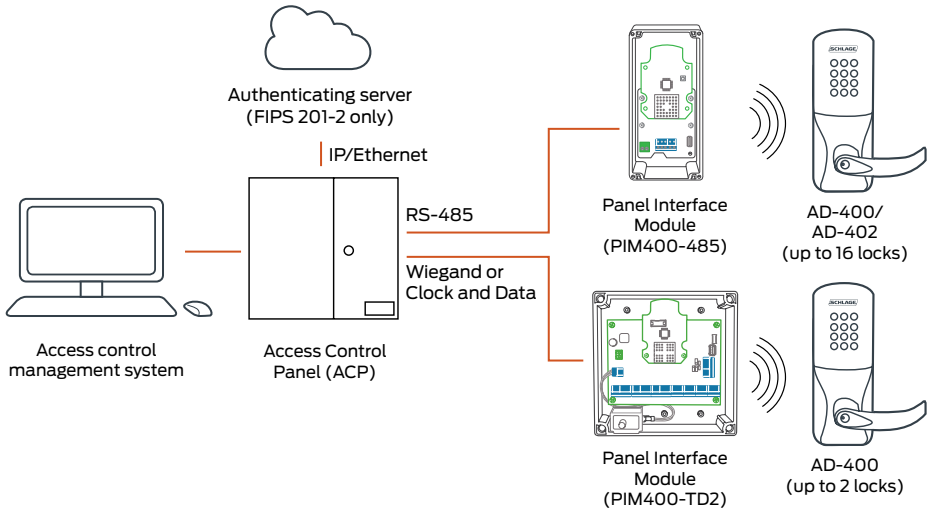
2 AD Series FIPS 201-2 compliant solution: The AD Series is an ideal solution for applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-2 compliance. In order to meet requirements, the AD Series lock must be part of an integrated system tested and formally approved to meet the government FIPS 201-2 criteria. Refer to the Approved Products list to see what Physical Access Control Software (PACS) providers have met the requirement and are permitted to deploy AD-302 and -402 electronic locks in your facility.

3 Not available with mortise deadbolt chassis.

4 See minimum supported guidelines.

# AD-400 and AD-402 FIPS 201-2 compliant networked wireless solution:

- PIM400-TD2 required for Wiegand or Clock and Data connections; supports up to 2 AD Series devices.
- PIM400-485, if supported by OEM provider, supports up to 16 AD-400/AD-402 devices.
- Utilize relay/dry contact board (RLBD) if supervised inputs are required in Wiegand systems.
- Verify requirements for reader interface or gateway with your access control provider.
- FMK reader can now be ordered as separate component for upgrade to a FIPS 201-2 compliant lock. It must utilize the most most current firmware and be applied within a FIPS 201-2 approved PACS provider system. See Approved Products list for further detail.



## AD-400/AD-402 Wireless lock features

| Communication to/from controller | Direct - RS-485 | Wiegand or Clock and Data |
|---|---|---|
| **Features**<br>Consult with access control system provider for specific requirements | | |
| Panel Interface Module | PIM400-485 (sold exclusively through PACS providers) | PIM400-TD2 (AD-400 only) |
| Number of locks per panel interface module | Up to 16 | Up to 2 |
| **Reader options**<br>Consult with access control system provider for supported card formats | | |
| Keypad only | AD-400 only[1] | AD-400 only[1] |
| Magnetic stripe card | AD-400 only[1] | AD-400 only[1] |
| FIPS 201-2 multi-technology - 125 kHz and 13.56 MHz | Yes[1,2] | N/A |
| Multi-technology - 125 kHz, 13.56 MHz and NFC mobile[4] | Yes[1] | Yes[1] |
| PIV AND PIV-I compatible[1] | Yes[1,2] | Yes[1,2] |
| Smart–iClass compatible | Yes[1] | Yes[1] |
| Card + PIN | Yes[1] | Yes[1] |
| **Status monitors**<br>Consult with access control system provider for specific support | | |
| Request-to-exit | Yes[1] | Yes[1] |
| Door position switch | Yes[1] | Yes[1] |
| Mechanical key override (ATK) | Yes[1] | No |
| Request-to-enter | Yes[1] | Yes[1] |
| Low battery status | Yes[1] | Yes[1] |
| Communication status: RF/RS-485 | Yes/ Yes[1] | Yes/ Yes[1] |
| Remote lockdown/unlock | Yes[1] | Yes[1] |
| Deadbolt position | Yes[1] | No |
| Interior push button | Yes[1] | No |
| **Functions**<br>Consult with access control system provider for specific support | | |
| Classroom/storeroom (70) | Yes[3] | Yes[3] |
| Privacy (40) | Yes[1] | No |
| Office (50) | Yes[1] | No |
| Apartment (60) | Yes[1] | No |

1 As supported by access control system provider. NFC not supported by AD-402.

2 AD Series FIPS 201-2 compliant solution: The AD Series is an ideal solution for applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-2 compliance. In order to meet requirements, the AD Series lock must be part of an integrated system tested and formally approved to meet the government FIPS 201-2 criteria. Refer to the Approved Products list to see what Physical Access Control Software (PACS) providers have met the requirement and are permitted to deploy AD-302 and -402 electronic locks in your facility.

3 Not available with mortise deadbolt chassis.

4 See minimum supported guidelines.

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# AD-400

## Networked wireless electronic lock

## Overview

AD Series electronic locks from Schlage® are designed to be modular and provide more options to choose from, more functionality in the lock and more compatibility with existing systems. Its patented modular design allows the lock to be customized to fit the needs of an application now, and changed to meet future needs without removing it from the door.

Factory orderable options include choices of credential readers, chassis type, network configurations, locking functions, power options, lever styles and finishes. It also offers a wide selection of features that can be configured in the field to customize your openings.

To simplify installation, the AD Series combines all the hardware components required at the door for a complete access control system into one integrated design that includes the electrified lock, credential reader, request-to-exit and request-to-enter sensors, door position switch, tamper guard and more.

The AD-400 wireless networked lock gives you many of the key benefits of a hardwired access control system — without the wires. This allows you to secure doors that were traditionally difficult to run wires to in the past—and increase the security throughout your facility.

The AD-400 has a number of features built in, that are configurable in the field and a long list of items that can be monitored by access control software. Please consult one of our Physical Access Control Software (PACS) providers for details on the integration of specific features.

## Features and benefits

- Open architecture platform
- Panel interface options ensure seamless communication with your system
- Non-invasive installations for historic buildings and sensitive areas
- Secure encrypted data transmission
- Unique communication protocols that won't interfere with other wireless networks
- Patent-pending wireless feature enables centralized lockdown in less than 10 seconds while still optimizing battery life up to 2 years
- Wireless accessories available for remote, gate, elevator and portable (mustering) applications
- Compatible with NFC mobile credentials on iOS and Android platforms [1]
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, Industry Canada (IC), FL12400[2], FL1591[2], FL13013[2] and FL14482[2]

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[1] Check with PACS provider for specific support of Mobile Student IDs in Apple Wallet and Google Pay
[2] Applies to cylindrical and mortise chassis only

# Reliable communications

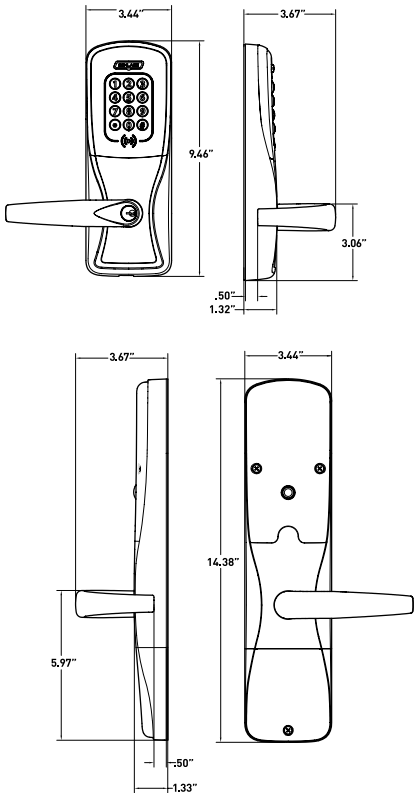
Secure and reliable wireless communication with the Panel Interface Module (PIM) is accomplished using 900 MHz frequency. 900 MHz band enables longer transmission ranges because signal propagation with longer wavelengths travel a greater distance and better penetrate typical building construction – allowing for simplified system design.

# Wake-Up on Radio

This feature enables implementation of wireless locks in applications where centralized lockdown or unlock is required. 'Wake Up on Radio' utilizes patent-pending technology to enable real-time activation at a remote battery-powered wireless lock. The technology is configurable from 10 to 1 second increments. When Wake-Up on Radio is used in critical applications Dynamic Channel Switching should also be enabled.

# Panel Interface Module (PIM400)

The PIM400 (sold separately) is required for communication between the AD-400 wireless lock and the access control panel, and can support up to 16 locks depending on your access control system.




## AD-400 electronic lock specifications

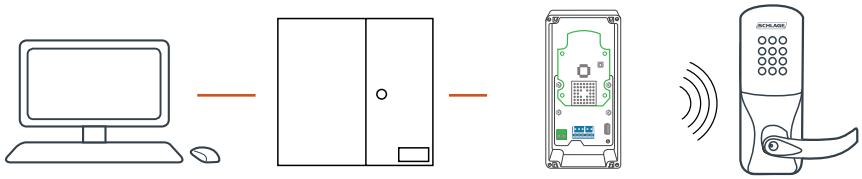
| | |
|---|---|
| **Modulation** | 900 MHz spread spectrum, direct sequence, 10 channels |
| **Frequency range** | 902-928 MHz |
| **Transmission/encryption** | AES-128 bit key |
| **Credential verification time** | < 1 second[1] |
| **Wake-Up on Radio** | Responds to lock/unlock command from host in less than 10 seconds in battery powered applications (per field configuration) |
| **Communication range** | Up to 200 ft with obstructions (normal building construction), up to 1000 ft clear line of sight |
| **RF interference avoidance** | Configurable dynamic channel switching |
| **Data rate** | RF: 40 kbps |
| **Visual/audible communications** | Tri-colored LED's and audible indicators (field configurable) |
| **System interface** | RS-485, Wiegand, or Clock & Data via PIM400 to host |
| **Power supply** | 4AA, 8AA, 12 VDC or 24 VDC |
| **Voltage range** | 4 VDC to 26 VDC |
| **Max current requirement** | Up to 250 mA |
| **Battery life** | Up to 2 yrs with 4AA |
| **Operating temperature/ exterior** | -31º to 151ºF (-35º to 66ºC) |
| **Operating temperature/ interior** | 32º to 120ºF (0º to 49ºC) (battery) |
| **Operating humidity** | 0 - 100% non-condensing |
| **Certifications** | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10 C, FCC Part 15, ADA |
| **Accessories** | Panel Interface Module (PIM400), SUS-A Cable used with SUS Android mobile app, remote antennas for PIM400 to extend range, Dry Contact Relay Board (RLBD) may be required for supervised inputs (Wiegand systems) |

## Functions

- Classroom/storeroom[2]
- Office[2, 3]
- Privacy[3]
- Apartment[3]

## Available status signals

- Lock/unlock status[4]
- Request-to-exit
- Door position
- Mechanical key override[3]
- Deadbolt position[3]
- Interior push button[3]
- Interior cover tamper guard[3]
- Battery status
- Communication status[3]
- Request-to-enter[3]




[1] Lock requires less than 100 msec, response time does not include latency time of ACP.
[2] Classroom/storeroom and office function not available with mortise deadbolt option.
[3] Consult your Physical Access Control Software (PACS) provider for specific scope of support. Interior pushbutton, mechanical key override and deadbolt position are only available when linked via PIM400-485.
[4] Software indicates lock/unlock status based on sequence of events, but cannot validate mechanical clutch position unless monitored on RS-485 connection.

## Mechanical specifications

| Chassis | Cylindrical | Mortise | Exit trim |
|---|---|---|---|
| Handing | Handed to order, field reversible | | |
| ANSI standard (Meets or exceeds) | A156.25<br>A156.2 Series 4000<br>Grade 1 | A156.25<br>A156.13 Series 1000<br>Grade 1 | A156.25<br>A156.3 |
| Door thickness | 1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments) | | |
| Backset | Standard: 2 3/4"<br>Optional: 2 3/8", 3 3/4", 5" | 2 3/4" only | Defined by exit device |
| Latch bolt | Standard: 1/2" throw<br>Optional: 3/4" throw | Standard: 3/4" throw<br>Optional: 1" throw on mortise deadbolt | Provided by exit device |
| Levers | Pressure cast zinc, plated | | |
| Strike | Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8"<br>Optional: Additional configurations available please see price book | | Provided by exit device |
| Cylinder and keys | Schlage® 6-pin Everest 29 S123 keyway Conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432) | | |

## Multi-technology reader specification

| | |
|---|---|
| Credential technologies | Proximity (125 kHz), Smart (13.56 MHz) and Near Field Communication (NFC) |
| Standards | ISO 15693<br>ISO 14443 |
| Read range | Proximity: up to 1.25”<br>Smart: up to .75”<br>NFC mobile: mobile device dependent |
| Proximity credential compatibility | **Compatibility:** Schlage, ISONAS™, HID®, GE/CASI ProxLite®, AWID® and LenelProx®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, PVC adhesive disk |
| Smart credential compatibility | **Secure sector compatibility:** Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire® EV1 and EV2 with PACSA, PIV and PIV-I[1]<br>**CSN only compatibility:** DESFire, HID iClass®, Inside Contactless Pico Tag®, MIFARE, MIFARE DESFire EV1 and EV2, ST Microelectronics®, Texas Instruments Tag-It®, Phillips I-Code®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, PVC patch |
| Mobile credential compatibility | NFC-enabled mobile devices[3] |
| Certifications/standards | FCC, Industry Canada (IC), UL 294 Listed, ISO standard 15693 and ISO standard 14443 |
| Options | 12 button, 3x4 matrix backlit keypad |

[1] FIPS 201-2 integration ready option available: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-2 compliance when installed as part of a tested and approved integrated solution. Please see the AD-402 data sheet or AD-302 data sheet for complete details.

[2] 75 bit output format default. Configurable to other output formats.

[3] Check with PACS provider for specific support of Mobile Student IDs in Apple Wallet and Google Pay.

## Available AD Series reader modules

**Multi-technology**
- Proximity
- Smart card
- NFC mobile

KEYPAD

**Multi-technology**
- Proximity
- Smart card
- NFC mobile

**Smart – iClass compatible**
- Smart card
- NFC mobile

KEYPAD

**Smart – iClass compatible**
- Smart card
- NFC mobile

**Magnetic stripe (insertion)**

KEYPAD

**Magnetic stripe (insertion)**

**Magnetic stripe (swipe)**

KEYPAD

**Magnetic stripe (swipe)**

**Keypad**

### AD Series exit trim:

AD-400 exit trim is exclusively compatible with Von Duprin 98/99 and 98/99XP (Rim, Mortise, and SVR. CVC and CVR on metal doors only), Von Duprin 22/22F (Rim and SVR) and Falcon 25 (Rim) exit devices made by Allegion. The proper low current request-to-exit switch (RX-LC or AE) is required.

Part numbers for request-to-exit switch:
- Von Duprin: 050281
- Falcon: 650359

## Benefits of AD Series multi-technology readers:

- Reads multiple brands of both proximity (125 kHz) and smart (13.56 MHz) technologies with single reader
- Compatible with NFC mobile credentials on iOS and Android platforms[3]
- Allows facility to migrate to more secure credential technologies over time and as budgets permit

## Additional readers

### Smart – iClass compatible
- Reads secure sector of HID iClass, iClass SE, iClass SEOS, iClass Standard Key, and iClass Elite Key; Schlage MIFARE Classic, MIFARE Plus, and MIFARE DESFire EV1 and EV2
- Reads NFC mobile credential, Bluetooth mobile credential not supported
- Proximity not supported

### Magnetic stripe
- Available with choice of insertion or swipe style readers
- Triple track reader (1, 2 or 3), field configurable
- ABA, ISO76XX standard

### Keypad
- Backlit keypad
- 12 button, 3x4 matrix

# Ordering information

Available through one of our GSA schedule 84 approved distributions; BAA options available

AD-400-CY-70-MG-SPA-626-P6-S123-RH-4B-13-049-10-025-1 3/4

| Series | Class | Chassis | Function | Reader | Lever style | Finish | Lever cylinder | Keying type | Handing | Battery | Backset & latch | Strike | Door thickness |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

**Selections correspond with the numbers above**

Standard options are indicated in bold. See price book for specific configuration options.

| 3 | Chassis |
|---|---|
| CY | Cylindrical |
| MS | Mortise |
| MD | Mortise deadbolt |
| 993R | Exit trim – Rim/CVC/CVR |
| 993S | Exit trim – SVR |
| 993M | Exit trim – mortise |
| 993DT | Non-functioning dummy trim for exit |

| 4 | Function |
|---|---|
| 70 | Classroom/storeroom |
| 50 | Office |
| 40 | Privacy |
| 60 | Apartment |

Lock function capabilities are determined by users access control system

| 5 | Reader |
|---|---|
| **KP** | **Keypad** |
| MG | Magnetic stripe (insertion) |
| MGK | Magnetic stripe + keypad (insertion) |
| MS | Magnetic stripe (swipe) |
| MSK | Magnetic stripe + keypad (swipe) |
| MT | Multi-technology (125 kHz, 13.56 MHz, NFC) |
| MTK | Multi-technology + keypad (125 kHz, 13.56 MHz, NFC) |
| FMK | FIPS 201-1 compliant multi-technology + keypad (125 kHz and 13.56 MHz) |
| Si | Smart–iClass compatible |
| SiK | Smart–iClass compatible + keypad |
| DT | Dummy trim |

| 6 | Lever |
|---|---|
| ATH | Athens |
| BRK | Boardwalk |
| BRW | Broadway |
| LAT | Latitude |
| LON | Longitude |
| RHO | Rhodes |
| SPA | Sparta |
| TLR | Tubular |

Available with tactile warning options

| 7 | Finish |
|---|---|
| **626** | **Satin chrome** |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

| 8 | Lever cylinder type |
|---|---|
| **P6** | **Schlage 6-pin Conventional key-in-lever cylinder** |

See price book for other SFIC, FSIC and less cylinder options available. Compatible with Schlage®, Sargent®, Corbin Russwin, Medeco® and Yale®.

| 9 | Keyway type |
|---|---|
| **S123** | **Everest 29** |

See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keying

| 10 | Handing |
|---|---|
| **RH** | **Right handed** |
| LH | Left handed |

Field reversible

| 11 | Battery |
|---|---|
| **4B** | **4AA** |
| 8B | 8AA |

| 12 | Backset & latch or armor front |
|---|---|
| **Cylindrical** | |
| **13-247** | **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"** |
| **Mortise** | |
| **09-663** | **Armor front, 1 1/4" wide, square corner** |

See price book for mortise deadbolt and other backset and latch options or armor front options

| 13 | Strike |
|---|---|
| **Cylindrical** | |
| **10-025** | **1 3/16" lip, ANSI, no box, 1 1/4" x 4 7/8"** |
| **Mortise** | |
| **10-072** | **1 3/16" lip, 1 1/4" x 4 7/8" square corner, box** |

See price book for other available strikes

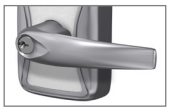
| 14 | Door thickness |
|---|---|
| **1 3/4"** | |

Other thicknesses available between 1 3/8" and 2 3/4"

See price book for detail

## Lever styles

Conventional cylinders shown, SFIC and FSIC also available.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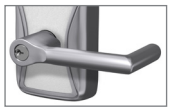
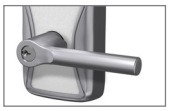

Boardwalk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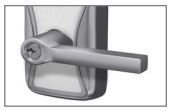
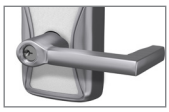
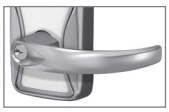
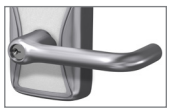

Latitude


Longitude

Rhodes


Sparta


Tubular

## Finishes

Warm tone finishes

605 Bright brass

606 Satin brass

612 Satin bronze

643e Aged bronze

Cool tone finishes

619 Satin nickel

625 Bright chrome

626 Satin chrome

626AM Satin chrome with antimicrobial

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## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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ALLEGION

SCHLAGE

# AD-402

## FIPS 201-2 integration ready networked wireless electronic lock

## Overview

AD Series electronic locks from Schlage® are designed to be modular and provide more options to choose from, more functionality in the lock and greater compatibility with existing systems. Its patented modular design allows the lock to be customized to fit the needs of an application now, and changed to meet future needs without removing it from the door.

AD-402 locks feature a multi-technology card and keypad reader (FMK) that is fully PIV and PIV-I capable for dual authentication to an external server. The open architecture software design of AD Series facilitates integration making AD-402 a desirable part of a Physical Access Control Software (PACS) provider's offering. Any completed PACS integrations that are tested and approved under HSPD-12 guidelines can then be applied in U.S. Federal Agency Buildings.

Factory orderable options include choices of chassis type, network configurations, locking functions, power options, lever styles and finishes. It also offers a selection of features that can be configured in the field to customize your openings.

To simplify installation, the AD Series combines all the hardware components required at the door into one design that includes the electrified lock, credential reader, request-to-exit sensor, request-to-enter sensor, and both door position and tamper switches. The AD-402 has a number of features built in that are configurable in the field and a long list of items that can be monitored by access control software.

The AD-402 wireless networked lock gives you many of the key benefits of a hardwired access control system — without the wires. This allows you to secure doors that were traditionally difficult to run wires to in the past—and increase the security throughout your facility.

## Features and benefits

- PIV and PIV-I compatible
- Open architecture platform
- The PIM400-485 Panel Interface Module ensures seamless communication with your RS-485 system and can support up to 16 AD-402 devices
- Non-invasive installations for historic buildings and sensitive areas
- Secure encrypted data transmission
- Unique communication protocols that won't interfere with other wireless networks
- Patent-pending wireless feature that enables efficient centralized lockdown in less than 10 seconds while still optimizing battery life up to 2 years
- Available in cylindrical, mortise, mortise deadbolt and exit trim
- Compatible with major brands of master key systems
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, Industry Canada (IC), FL12400[1], FL1591[1], FL13013[1] and FL14482[1]

**CYBERSECURITY**
Learn about Allegion's commitment

[1] Applies to cylindrical and mortise chassis.

# Reliable communications

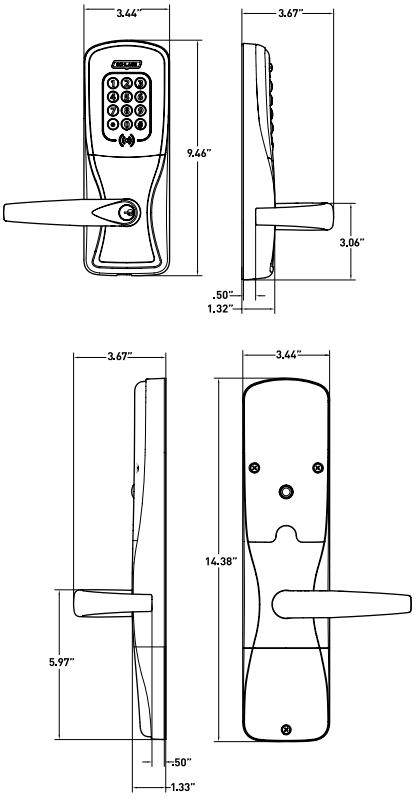
Secure and reliable wireless communication with the Panel Interface Module (PIM) is accomplished using 900 MHz frequency. 900 MHz band enables longer transmission ranges because signal propagation with longer wavelengths travel a greater distance and better penetrate typical building construction – allowing for simplified system design.

# Wake-Up on Radio

This feature enables implementation of wireless locks in applications where centralized lockdown or unlock is required. 'Wake Up on Radio' utilizes patent-pending technology to enable real-time activation at a remote battery-powered wireless lock. The technology is configurable from 10 to 1 second increments. When Wake-Up on Radio is used in critical applications Dynamic Channel Switching should also be enabled.

# Panel Interface Module (PIM400)

The PIM400 (sold separately) is required for communication between the AD-402 wireless lock and the access control panel, and can support up to 16 locks depending on your access control system.




## AD-402 electronic lock specifications

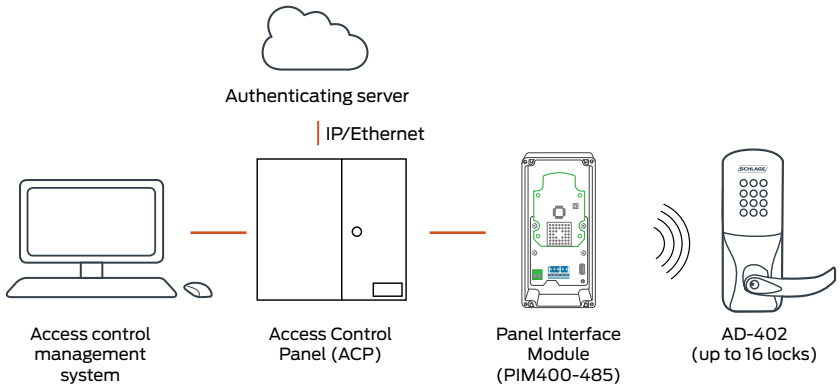
| | |
|---|---|
| **Modulation** | 900 MHz spread spectrum, direct sequence, 10 channels |
| **Frequency range** | 902-928 MHz |
| **Transmission/encryption** | AES-128 bit key |
| **Credential verification time** | < 2 seconds in FASC-N mode: card certificate validated by the ACP only 2-6 seconds in full authentication mode: card certificate validated by 3rd party server |
| **Wake-Up on Radio** | Responds to lock/unlock command from host in less than 10 seconds in battery powered applications (per field configuration) |
| **Communication range** | Up to 200 ft with obstructions (normal building construction), up to 1000 ft clear line of sight |
| **RF interference avoidance** | Configurable dynamic channel switching |
| **Data rate** | RF: 40 kbps |
| **Visual/audible communications** | Tri-colored LED's and audible indicators (field configurable) |
| **System interface** | RS-485 |
| **Power supply** | 4AA, 8AA, 12 VDC or 24 VDC |
| **Voltage range** | 4 VDC to 26 VDC |
| **Max current requirement** | Up to 250 mA |
| **Battery life**[1] | FASC-N mode: 18-24 months (4AA)<br>Full authentication mode: 10-12 months (4AA) |
| **Operating temperature/ exterior** | -31º to 151ºF (-35º to 66ºC) |
| **Operating temperature/ interior** | 32º to 120ºF (0º to 49ºC) (battery) |
| **Operating humidity** | 0 - 100% non-condensing |
| **Certifications** | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10 C, FCC Part 15, ADA |
| **Accessories** | Panel Interface Module (PIM400), SUS-A Cable with SUS Android mobile app. Also supported by existing Handheld Devices (HHD) |

## Functions

- Classroom/storeroom[2]
- Office[2]
- Privacy
- Apartment

## Available status signals

- Lock/unlock status
- Request-to-exit
- Door position
- Mechanical key override
- Deadbolt position
- Interior push button
- Interior cover tamper guard
- Battery status
- Communication status
- Request-to-enter




[1] Battery life testing results based on an average 20 activations per day.
[2] Classroom/storeroom and office function not available with mortise deadbolt option.

## Mechanical specifications

| Chassis | Cylindrical | Mortise | Exit trim |
|---|---|---|---|
| Handing | Handed to order, field reversible | | |
| ANSI standard (Meets or exceeds) | A156.25<br>A156.2 Series 4000<br>Grade 1 | A156.25<br>A156.13 Series 1000<br>Grade 1 | A156.25<br>A156.3 |
| Door thickness | 1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments) | | |
| Backset | Standard: 2 3/4"<br>Optional: 2 3/8", 3 3/4", 5" | 2 3/4" only | Defined by exit device |
| Latch bolt | Standard: 1/2" throw<br>Optional: 3/4" throw | Standard: 3/4" throw<br>Optional: 1" throw on mortise deadbolt | Provided by exit device |
| Levers | Pressure cast zinc, plated | | |
| Strike | Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8"<br>Optional: Additional configurations available please see price book | | Provided by exit device |
| Cylinder and keys | Schlage® 6-pin Everest 29 S123 keyway in a conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432). | | |

## FMK multi-technology reader specification

| | |
|---|---|
| Credential technologies | 125 kHz proximity and 13.56 MHz smart card |
| Standards | ISO standard 15693 and ISO 14443 |
| Maximum read range | Up to 1.25" on 125 kHz proximity, up to 0.75" on 13.56 MHz smart card |
| Proximity credential use | **Compatibility:** Schlage, HID®, GE/CASI ProxLite®, AWID® and LenelProx®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, PVC disk |
| Smart credential use | **Secure sector compatibility:** Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire® EV1 and EV2 with PACSA; PIV and PIV-I[1]<br>**CSN only compatibility:** DESFire, HID iClass®, Inside Contactless Pico Tag®, MIFARE, MIFARE DESFire EV1 and EV2, ST Microelectronics®, Texas Instruments Tag-It®, Phillips I-Code®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, PVC adhesive patch |
| Certifications/standards | FCC, Industry Canada (IC), UL 294 Listed, ISO standard 15693, and ISO standard 14443 |
| Style/layout | 12 button, 3x4 matrix backlit keypad |

[1] 75 bit output format default. Configurable to other output formats.

## AD Series exit trim:

AD-402 exit trim is exclusively compatible with Von Duprin® 98/99 and 98/99XP (Rim, Mortise, and SVR. CVC and CVR on metal doors only), Von Duprin 22/22F (Rim and SVR) and Falcon® 25 (Rim) exit devices made by Allegion. The proper low current request-to-exit switch (RX-LC or AE) is required.

Part numbers for request-to-exit switch:

- Von Duprin: 050281
- Falcon: 650359

## AD Series FMK reader module

The AD Series is an ideal solution for applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-2 compliance. It is possible to upgrade existing, non-compliant AD Series locks to the new standard as follows:

- Field upgrade AD Series locks not currently set up for FIPS 201-2 by replacing the reader module with a FIPS 201-2 PIV-I capable FMK reader (sold separately)
- Field upgrade AD Series FIPS 201-1 compliant locks with an FMK reader manufactured after August 2016 by uploading FIPS 201-2 compatible firmware (AD.A.121 or higher)

Both types of upgrades should only be performed by a PACS provider who has tested and been approved under HSPD-12 for AD Series integration.

**PIV-I capable**

- The FMK reader is required on AD Series locks to achieve FIPS 201-2 compliance; It supports proximity cards and is PIV-I capable using 13.56 MHz smart card technologies

+ KEYPAD

# Ordering information

Available through one of our GSA schedule 84 approved distributions; BAA options available

AD-402-CY-70-FMK-SPA-626-P6-S123-RH-4B-13-049-10-025-1 3/4

| Series | Class | Chassis | Function | Reader | Lever style | Finish | Lever cylinder | Keying type | Handing | Battery | Backset & latch | Strike | Door thickness |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

**Selections correspond with the numbers above**

Standard options are indicated in bold. See price book for specific configuration options.

## 3 Chassis

| | |
|---|---|
| CY | Cylindrical |
| MS | Mortise |
| MD | Mortise deadbolt |
| 993R | Exit trim – Rim/CVC/CVR |
| 993S | Exit trim – SVR |
| 993M | Exit trim – mortise |
| 993DT | Non-functioning dummy trim for exit |

## 4 Function

| | |
|---|---|
| 70 | Classroom/storeroom |
| 50 | Office |
| 40 | Privacy |
| 60 | Apartment |

Lock function capabilities are determined by users access control system

## 5 Reader

| | |
|---|---|
| **FMK** | **FIPS 201-2 compatible multi-technology + keypad (125 kHz and 13.56 MHz)** |

## 6 Lever

| | |
|---|---|
| ATH | Athens |
| BRK | Boardwalk |
| BRW | Broadway |
| LAT | Latitude |
| LON | Longitude |
| RHO | Rhodes |
| SPA | Sparta |
| TLR | Tubular |

Available with tactile warning options

## 7 Finish

| | |
|---|---|
| **626** | **Satin chrome** |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

## 8 Lever cylinder type

| | |
|---|---|
| **P6** | **Schlage 6-pin Conventional key-in-lever cylinder** |

See price book for other SFIC, FSIC and Less Cores options available. Compatible with Schlage®, Sargent®, Corbin Russwin, Medeco® and Yale®.

## 9 Keyway type

| | |
|---|---|
| **S123** | **Everest 29** |

See price book for other available keyway options including master keying

## 10 Handing

| | |
|---|---|
| **RH** | **Right handed** |
| **LH** | **Left handed** |

Field reversible

## 11 Battery

| | |
|---|---|
| **4B** | **4AA** |
| 8B | 8AA |

## 12 Backset & latch or armor front

**Cylindrical**

**13-247** **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"**

**Mortise**

**09-663** **Armor front, 1 1/4" wide, square corner**

See price book for mortise deadbolt and other backset and latch options or armor front options

## 13 Strike

**Cylindrical**

**10-025** **1 3/16" lip, ANSI, no box, 1 1/4" x 4 7/8"**

**Mortise**

**10-072** **1 3/16" lip, 1 1/4" x 4 7/8" square corner, box**

See price book for other available strikes

## 14 Door thickness

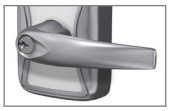
**1 3/4"**

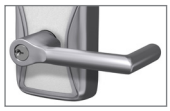
Other thicknesses available between 1 3/8" and 2 3/4"

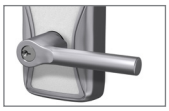
See price book for detail

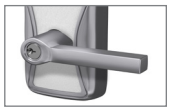
# Lever styles

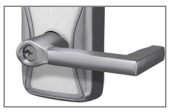
Conventional cylinders shown, SFIC and FSIC also available.


Athens

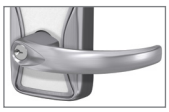

Boardwalk

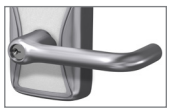

Broadway


Latitude


Longitude

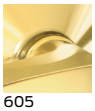
Rhodes

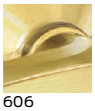

Sparta

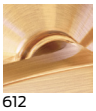

Tubular

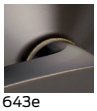
# Finishes

Warm tone finishes


605 Bright brass


606 Satin brass


612 Satin bronze


643e Aged bronze

Cool tone finishes

619 Satin nickel

625 Bright chrome

626 Satin chrome

626AM Satin chrome with antimicrobial

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## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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SCHLAGE

# AD-300

## Networked hardwired electronic lock

## Overview

AD Series electronic locks from Schlage® are designed to be modular and provide more options to choose from, more functionality in the lock and more compatibility with existing systems. Its patent-pending modular design allows the lock to be customized to fit the needs of an application now, and changed to meet future needs without removing it from the door.

Factory orderable options include choices of credential readers, chassis type, network configurations, locking functions, lever styles and finishes. It also offers a wide selection of features that can be configured in the field to customize your openings.

To simplify installation, the AD Series combines all the hardware components required at the door for a complete access control system into one integrated design that includes the electrified lock, credential reader, request-to-exit and request-to-enter sensors, door position switch, tamper switch and more.

The AD-300 has a number of features built-in that are configurable in the field and a long list of items that can be monitored by access control software. Please consult one of our Physical Access Control Software (PACS) providers for details on the integration of specific features.

## Features and benefits

- Open architecture platform
- Panel interface options ensure seamless communication with your system
- Real-time communication between access control system and lock
- Field configurable fail safe/fail secure and other capabilities per code
- Available in cylindrical, mortise, mortise deadbolt and exit trim
- Compatible with major brands of master key systems
- A wide selection of credential readers and networking options to choose from
- Compatible with NFC mobile credentials on iOS and Android platforms[1]
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, Industry Canada (IC), FL12400[2], FL1591[2], FL13013[2] and FL14482[2]

**CYBERSECURITY**
Learn about Allegion's commitment

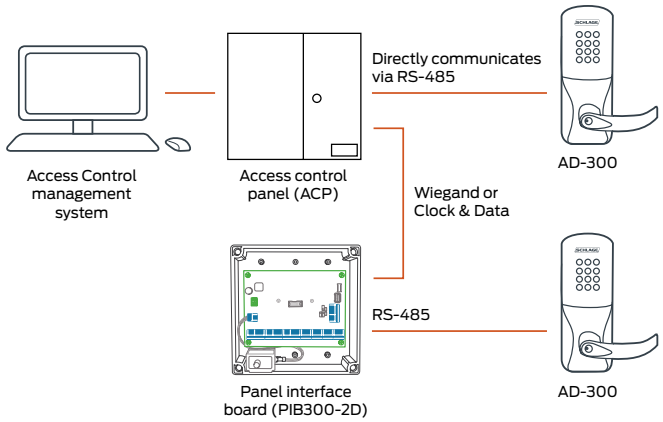
[1] Check with PACS provider for specific support of Mobile Student IDs in Apple Wallet and Google Pay
[2] Applies to cylindrical and mortise chassis only

## AD-300 electronic lock specifications

| | |
|---|---|
| Credential verification time | < 1 second[1] |
| Data rate | RS-485 : 9.6 kbps |
| Visual/audible communications | Tri-colored LED's and audible indicators (field configurable) |
| System interface | Wiegand or Clock & Data via PIB300 or RS-485 directly |
| Power supply | 12 VDC or 24 VDC |
| Voltage range | 4 VDC to 26 VDC |
| Max current requirement | Up to 250 mA |
| Cable specifications for power | 18AWG, 2 conductor (Belden 8760 or equivalent) |
| Cable distance for power | AD-300 to power supply: up to 1000 ft (303 m) |
| Cable specifications for data | 24AWG, 2 or 4 conductor shielded (Belden 9841, 9842 or equivalent) |
| Cabling distance for data | AD-300 to PIB300 or ACP, RS-485: up to 4000 ft (1219 m) |
| Operating temperature | -31º to 151ºF (-35º to 66ºC) |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10 C, FCC Part 15, ADA |
| Accessories | Panel Interface Board (PIB300), SUS-A Cable used with SUS Android mobile app, Dry Contact Relay Board (RLBD) may be required for supervised inputs (Wiegand systems) |

## PIB300-2D specifications

| | |
|---|---|
| Communication range | PIB300 to lock, RS-485: up to 4000 ft (1219 m)<br>PIB300 to ACP, Wiegand or Clock & Data: up to 500 ft (152 m) |
| Visual/audible | 13 LEDs for status indicators |
| System interface | Wiegand or Clock & Data |
| Power supply | 12 VDC or 24 VDC |
| Voltage range | 9.5 VDC to 26 VDC |
| Max current requirement | Up to 250 mA |
| Operating temperature | -31º to 151ºF (-35º to 66ºC) |
| Dimensions (H x W x D) | 7.1" x 7.1" x 3.0" (18.0 cm x 18.0 cm x 7.6 cm) |
| Weight | 1.25 lb (.57 kg) |
| Cable specifications (PIB300 to ACP) | 22AWG, 8 conductor shielded (Alpha 1298C or equivalent) |
| Certifications | NEMA 1, 4, 4X, 6; UL 294; FCC Part 15; RoHS |




### Functions

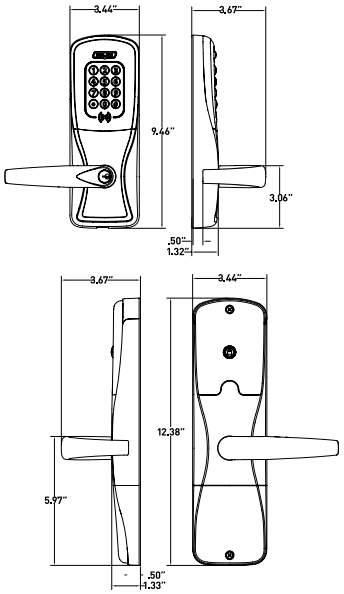
- Classroom/storeroom[2]
- Office[2, 3, 4]
- Privacy[3, 4]
- Apartment[3, 4]

### Available status signals

- Lock/unlock status[5]
- Request-to-exit
- Door position
- Mechanical key override[3]
- Deadbolt position[3]
- Interior cover tamper guard[3]
- Communication status[3]
- Interior push button[3]
- Request-to-enter[3]

## Panel Interface Board (PIB300-2D)

If the system requires Wiegand or Clock & Data protocol (rather than a direct RS-485 connection), the AD Series open architecture platform connects up to two AD-300 locks to the Panel Interface Board (PIB300 - sold separately, if required) that seamlessly connects to an access control panel or reader interface board. All monitoring is captured at the remote monitoring station.




1 Lock requires less than 100 msec, response time does not include latency time of ACP.
2 Classroom/storeroom and office function not available with mortise deadbolt option.
3 Consult your PACS provider for specific scope of support. Interior pushbutton, mechanical key override and deadbolt position are only available when linked via PIM400-485.
4 Not available on exit trim.
5 Software indicates lock/unlock status based on sequence of events, but cannot validate mechanical clutch position unless monitored on RS-485 connection.

## Mechanical specifications

| Chassis | Cylindrical | Mortise | Exit trim |
|---|---|---|---|
| Handing | Handed to order, field reversible | | |
| ANSI standard (Meets or exceeds) | A156.25<br>A156.2 Series 4000<br>Grade 1 | A156.25<br>A156.13 Series 1000<br>Grade 1 | A156.25<br>A156.3 |
| Door thickness | 1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments) | | |
| Backset | Standard: 2 3/4"<br>Optional: 2 3/8", 3 3/4", 5" | 2 3/4" only | Defined by exit device |
| Latch bolt | Standard: 1/2" throw<br>Optional: 3/4" throw | Standard: 3/4" throw<br>Optional: 1" throw on mortise deadbolt | Provided by exit device |
| Levers | Pressure cast zinc, plated | | |
| Strike | Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8"<br>Optional: Additional configurations available please see price book | | Provided by exit device |
| Cylinder and keys | Schlage® 6-pin Everest 29 S123 keyway Conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432) | | |

## Multi-technology reader specification

| | |
|---|---|
| Credential technologies | Proximity (125 kHz), Smart (13.56 MHz) and Near Field Communication (NFC) |
| Standards | Standards ISO standard 15693 and ISO 14443 |
| Maximum read range | Proximity: up to 1.25”<br>Smart: up to .75”<br>NFC mobile: mobile device dependent |
| Proximity credential compatibility | **Compatibility:** Schlage, ISONAS™, HID®, GE/CASI ProxLite®, AWID® and LenelProx®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, PVC adhesive disk |
| Smart credential compatibility | **Secure sector compatibility:** Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire® EV1 and EV2 with PACSA, PIV and PIV-I[1,2]<br>**CSN only compatibility:** DESFire, HID iClass®, Inside Contactless Pico Tag®, MIFARE, MIFARE DESFire EV1 and EV2, ST Microelectronics®, Texas Instruments Tag-It®, Phillips I-Code®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, PVC adhesive patch |
| Mobile credential compatibility | NFC-enabled mobile devices[3] |
| Certifications/standards | FCC, Industry Canada (IC), UL 294 Listed, ISO standard 15693, and ISO standard 14443 |
| Style/layout | Option for 12 button, 3x4 matrix backlit keypad |

[1] FIPS 201-2 integration ready option available: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-2 compliance when installed as part of a tested and approved integrated solution. Please see the AD-402 data sheet or the AD-302 data sheet for complete details.

[2] 75 bit output format default. Configurable to other output formats.

[3] Check with PACS provider for specific support of Mobile Student IDs in Apple Wallet and Google Pay.

## Available AD Series reader modules

**Multi-technology**
- Proximity
- Smart card
- NFC mobile

KEYPAD

**Multi-technology**
- Proximity
- Smart card
- NFC mobile

**Smart – iClass compatible**
- Smart card
- NFC mobile

KEYPAD

**Smart – iClass compatible**
- Smart card
- NFC mobile

**Magnetic stripe (insertion)**

KEYPAD

**Magnetic stripe (insertion)**

**Magnetic stripe (swipe)**

KEYPAD

**Magnetic stripe (swipe)**

**Keypad**

## AD Series exit trim:

AD-300 exit trim is exclusively compatible with Von Duprin® 98/99 and 98/99XP (Rim, Mortise, and SVR. CVC and CVR on Metal doors only), Von Duprin 22/22F (Rim and SVR) and Falcon® 25 (Rim) exit devices made by Allegion™. The proper low current request-to-exit switch (RX-LC or AE) is required.

Part numbers for request-to-exit switch:
- Von Duprin: 050281
- Falcon: 650359

# Benefits of AD Series multi-technology readers:

- Reads multiple brands of both proximity (125 kHz) and smart (13.56 MHz) technologies with single reader
- Compatible with NFC mobile credentials on iOS and Android platforms [3]
- Allows facility to migrate to more secure credential technologies over time and as budgets permit

# Additional readers

### Smart only – iClass compatible
- Reads secure sector of HID iClass, iClass SE, iClass SEOS, iClass Standard Key, and iClass Elite Key; Schlage MIFARE Classic, MIFARE Plus, and MIFARE DESFire EV1 and EV2
- Reads NFC mobile credential, Bluetooth mobile credential not supported
- Proximity not supported

### Magnetic stripe
- Available with choice of insertion or swipe style readers
- Triple track reader (1, 2 or 3), field configurable
- ABA, ISO76XX standard

### Keypad
- Backlit keypad
- 12 button, 3x4 matrix

# Ordering information

Available through one of our GSA schedule 84 approved distributions; BAA options available

AD -300 -CY -70 -MG -SPA -626 -P6 -S123 -RH -13-049 -10-025 -1 3/4

| Series | Class | Chassis | Function | Reader | Lever style | Finish | Lever cylinder | Keying type | Handing | Backset and latch | Strike | Door thickness |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

**Selections correspond with the numbers above**

Standard options are indicated in bold. See price book for specific configuration options.

## 3 Chassis

| | |
|---|---|
| CY | Cylindrical |
| MS | Mortise |
| MD | Mortise deadbolt |
| 993R | Exit trim – Rim/CVC/CVR |
| 993S | Exit trim – SVR |
| 993M | Exit trim – mortise |
| 993DT | Non-functioning dummy trim for exit |

## 4 Function

| | |
|---|---|
| 70 | Classroom/storeroom |
| 50 | Office |
| 40 | Privacy |
| 60 | Apartment |

Lock function capabilities are determined by users access control system

## 5 Reader

| | |
|---|---|
| **KP** | **Keypad** |
| MG | Magnetic stripe (insertion) |
| MGK | Magnetic stripe + keypad (insertion) |
| MS | Magnetic stripe (swipe) |
| MSK | Magnetic stripe + keypad (swipe) |
| MT | Multi-technology (125 kHz, 13.56 MHz, NFC) |
| MTK | Multi-technology + keypad (125 kHz, 13.56 MHz, NFC) |
| FMK | FIPS 201-2 compliant multi-technology + keypad (125 kHz and 13.56 MHz) |
| Si | Smart – iClass compatible |
| SiK | Smart – iClass compatible + keypad |
| DT | Dummy trim |

## 6 Lever

| | |
|---|---|
| ATH | Athens |
| BRK | Boardwalk |
| BRW | Broadway |
| LAT | Latitude |
| LON | Longitude |
| RHO | Rhodes |
| SPA | Sparta |
| TLR | Tubular |

Available with tactile warning options

## 7 Finish

| | |
|---|---|
| **626** | **Satin chrome** |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

## 8 Lever cylinder type

| | |
|---|---|
| **P6** | **Schlage 6-pin Conventional key-in-lever cylinder** |

See price book for other SFIC, FSIC and less cylinder options available. Compatible with Schlage®, Sargent®, Corbin Russwin, Medeco® and Yale®.

## 9 Keyway type

| | |
|---|---|
| **S123** | **Everest 29** |

See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keying

## 10 Handing

| | |
|---|---|
| **RH** | **Right handed** |
| LH | Left handed |

Field reversible

## 11 Backset and latch or armor front

**Cylindrical**

**13-247** **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"**

**Mortise**

**09-663** **Armor front, 1 1/4" wide, square corner**

See price book for mortise deadbolt and other backset and latch options or armor front options

## 12 Strike

**Cylindrical**

**10-025** **1 3/16" lip, ANSI, no box, 1 1/4" x 4 7/8"**

**Mortise**

**10-072** **1 3/16" lip, 1 1/4" x 4 7/8" square corner, box**

See price book for other available strikes

## 13 Door thickness

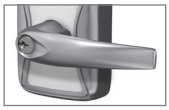
**1 3/4"**

Other thicknesses available between 1 3/8" and 2 3/4"

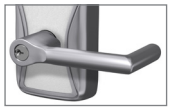
See price book for detail

# Lever styles

Conventional cylinders shown, SFIC and FSIC also available.

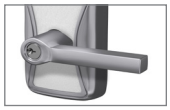


Athens

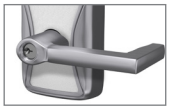


Boardwalk

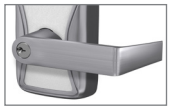
Broadway



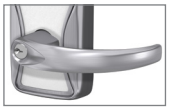
Latitude



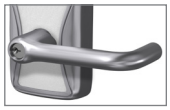
Longitude



Rhodes



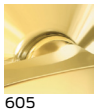
Sparta



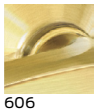
Tubular

# Finishes

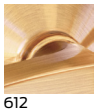
Warm tone finishes



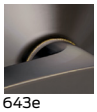
605
Bright brass



606
Satin brass



612
Satin bronze



643e
Aged bronze

Cool tone finishes

619
Satin nickel

625
Bright chrome

626
Satin chrome

626AM
Satin chrome with antimicrobial

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## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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SCHLAGE

# AD-302

## FIPS 201-2 integration ready networked hardwired electronic lock

## Overview

AD Series electronic locks from Schlage® are designed to be modular and provide more options to choose from, more functionality in the lock and greater compatibility with existing systems. Its patented modular design allows the lock to be customized to fit the needs of an application now, and changed to meet future needs without removing it from the door.

AD-302 locks feature a multi-technology card and keypad reader (FMK) that is fully PIV and PIV-I capable for dual authentication to an external server. The open architecture software design of AD Series facilitates integration making AD-302 a desirable part of a Physical Access Control Software (PACS) provider's offering. Any completed PACS integrations that are tested and approved under HSPD-12 guidelines can then be applied in U.S. Federal Agency Buildings.

Factory orderable options include choices of chassis type, network configurations, locking functions, lever styles and finishes. It also offers a wide selection of features that can be configured in the field to customize your openings.

To simplify installation, the AD Series combines all the hardware components required at the door into one design that includes the electrified lock, credential reader, request-to-exit sensor, request-to-enter sensor, and both door position and tamper switches. The AD-302 has a number of features built in that are configurable in the field and a long list of items that can be monitored by access control software.

## Features and benefits

- PIV and PIV-I compatible
- Open architecture platform
- AD-302 locks can wire directly into the panel of integrated RS-485 access control software partners
- Real-time communication between access control system and lock
- Field configurable fail safe/fail secure and other capabilities per code
- Available in cylindrical, mortise, mortise deadbolt and exit trim
- Compatible with major brands of master key systems
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, Industry Canada (IC), FL12400[1], FL1591[1], FL13013[1] and FL14482[1]

**CYBERSECURITY**
Learn about Allegion's commitment

[1] Applies to cylindrical and mortise chassis only.

## AD-302 electronic lock specifications

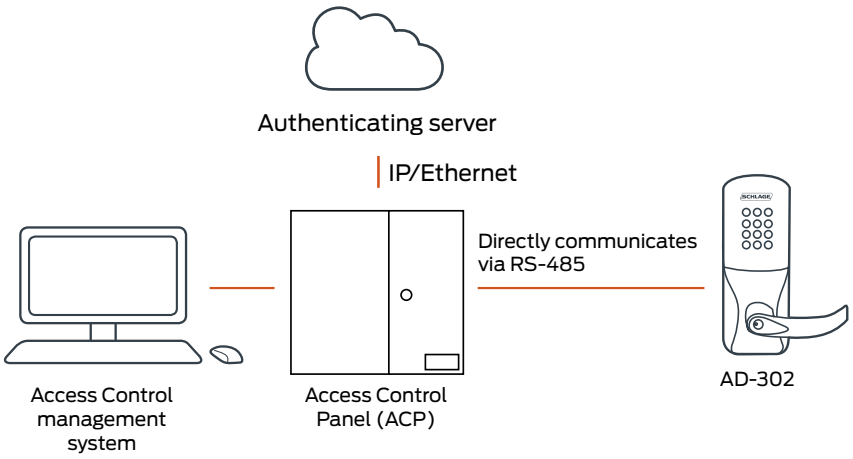
| | |
|---|---|
| Credential verification time | < 2 seconds in FASC-N mode: card certificate validated by the ACP only 2-4 seconds in full authentication mode: card certificate validated by 3rd party server |
| Data rate | RS-485 : 9.6 kbps |
| Visual/audible communications | Tri-colored LED's and audible indicators (field configurable) |
| System interface | RS-485 directly |
| Power supply | 12 VDC or 24 VDC |
| Voltage range | 4 VDC to 26 VDC |
| Max current requirement | Up to 250 mA |
| Cable specifications for power | 18AWG, 2 conductor (Belden 8760 or equivalent) |
| Cable distance for power | AD-302 to power supply: up to 1000 ft (303 m) |
| Cable specifications for data | 24AWG, 2 or 4 conductor shielded (Belden 9841, 9842 or equivalent) |
| Cabling distance for data | AD-302 to ACP, RS-485: up to 4000 ft (1219 m) |
| Operating temperature | -31º to 151ºF (-35º to 66ºC) |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10 C, FCC Part 15, ADA |
| Accessories | SUS-A Cable with SUS Android mobile app. Also supported by existing Handheld Devices (HHD) |

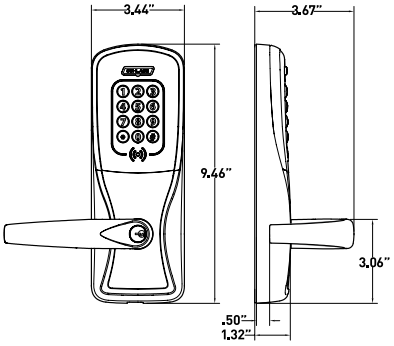
## Functions

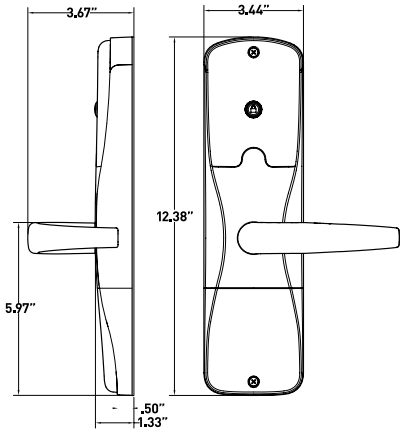
- Classroom/storeroom[1]
- Office[1]
- Privacy
- Apartment

## Available status signals

- Lock/unlock status
- Request-to-exit
- Door position
- Mechanical key override
- Deadbolt position
- Interior cover tamper guard
- Communication status
- Interior push button
- Request-to-enter




[1] Classroom/storeroom and office function not available with mortise deadbolt option.

## Mechanical specifications

| Chassis | Cylindrical | Mortise | Exit trim |
|---|---|---|---|
| Handing | Handed to order, field reversible | | |
| ANSI standard (Meets or exceeds) | A156.25<br>A156.2 Series 4000<br>Grade 1 | A156.25<br>A156.13 Series 1000<br>Grade 1 | A156.25<br>A156.3 |
| Door thickness | 1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments) | | |
| Backset | Standard: 2 3/4"<br>Optional: 2 3/8", 3 3/4", 5" | 2 3/4" only | Defined by exit device |
| Latch bolt | Standard: 1/2" throw<br>Optional: 3/4" throw | Standard: 3/4" throw<br>Optional: 1" throw on mortise deadbolt | Provided by exit device |
| Levers | Pressure cast zinc, plated | | |
| Strike | Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8"<br>Optional: Additional configurations available please see price book | | Provided by exit device |
| Cylinder and keys | Schlage® 6-pin Everest 29 S123 keyway in a conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432). | | |

## FMK multi-technology reader specification

| | |
|---|---|
| Credential technologies | 125 kHz proximity and 13.56 MHz smart card |
| Standards | Standards ISO standard 15693 and ISO 14443 |
| Maximum read range | Up to 1.25" on 125 kHz proximity, up to 0.75" on 13.56 MHz smart card |
| Proximity credential use | **Compatibility:** Schlage, HID®, GE/CASI ProxLite®, AWID® and LenelProx®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, PVC adhesive disk |
| Smart credential use | **Secure sector compatibility:** Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire® EV1 and EV2 with PACSA; PIV and PIV-I[1]<br>**CSN only compatibility:** DESFire, HID iClass®, Inside Contactless Pico Tag®, MIFARE, MIFARE DESFire EV1 and EV2, ST Microelectronics®, Texas Instruments Tag-It®, Phillips I-Code®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, PVC adhesive patch |
| Certifications/standards | FCC, Industry Canada (IC), UL 294 Listed, ISO standard 15693, and ISO standard 14443 |
| Style/layout | 12 button, 3x4 matrix backlit keypad |

[1] 75 bit output format default. Configurable to other output formats.

## AD Series exit trim:

AD-302 exit trim is exclusively compatible with Von Duprin® 98/99 and 98/99XP (Rim, Mortise, and SVR. CVC and CVR on metal doors only), Von Duprin 22/22F (Rim and SVR) and Falcon® 25 (Rim) exit devices made by Allegion™. The proper low current request-to-exit switch (RX-LC or AE) is required.

Part numbers for request-to-exit switch:

- Von Duprin: 050281
- Falcon: 650359

# AD Series FMK reader module

The AD Series is an ideal solution for applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-2 compliance. It is possible to upgrade existing, non-compliant AD Series locks to the new standard as follows:

- Field upgrade AD Series locks not currently set up for FIPS 201-2 by replacing the reader module with a FIPS 201-2 PIV-I capable FMK reader (sold separately)
- Field upgrade AD Series FIPS 201-1 compliant locks with an FMK reader manufactured after August 2016 by uploading FIPS 201-2 compatible firmware (AD.A.121 or higher)

Both types of upgrades should only be performed by a PACS provider who has tested and been approved under HSPD-12 for AD Series integration.

**PIV-I capable**

- The FMK reader is required on AD Series locks to achieve FIPS 201-2 compliance; It supports proximity cards and is PIV-I capable using 13.56 MHz smart card technologies

+ KEYPAD

# Ordering information

Available through one of our GSA schedule 84 approved distributions; BAA options available

AD-302-CY-70-FMK-SPA-626-P6-S123-RH-13-049-10-025-1 3/4

| Series | Class | Chassis | Function | Reader | Lever style | Finish | Lever cylinder | Keying type | Handing | Backset and latch | Strike | Door thickness |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

**Selections correspond with the numbers above**

Standard options are indicated in bold. See price book for specific configuration options.

## 3 Chassis

| | |
|---|---|
| CY | Cylindrical |
| MS | Mortise |
| MD | Mortise deadbolt |
| 993R | Exit trim – Rim/CVC/CVR |
| 993S | Exit trim – SVR |
| 993M | Exit trim – mortise |
| 993DT | Non-functioning dummy trim for exit |

## 4 Function

| | |
|---|---|
| 70 | Classroom/storeroom |
| 50 | Office |
| 40 | Privacy |
| 60 | Apartment |

Lock function capabilities are determined by users access control system

## 5 Reader

**FMK** **FIPS 201-2 compatible multi-technology + keypad (125 kHz and 13.56 MHz)**

## 6 Lever

| | |
|---|---|
| ATH | Athens |
| BRK | Boardwalk |
| BRW | Broadway |
| LAT | Latitude |
| LON | Longitude |
| RHO | Rhodes |
| SPA | Sparta |
| TLR | Tubular |

Available with tactile warning options

## 7 Finish

| | |
|---|---|
| **626** | **Satin chrome** |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

## 8 Lever cylinder type

**P6** **Schlage 6-pin Conventional key-in-lever cylinder**

See price book for other SFIC, FSIC and less cores options available. Compatible with Schlage®, Sargent®, Corbin Russwin, Medeco® and Yale®.

## 9 Keyway type

**S123** **Everest 29**

See price book for other available keyway options including master keying

## 10 Handing

**RH** **Right handed**

LH Left handed

Field reversible

## 11 Backset and latch or armor front

**Cylindrical**

**13-247** **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"**

**Mortise**

**09-663** **Armor front, 1 1/4" wide, square corner**

See price book for mortise deadbolt and other backset and latch options or armor front options

## 12 Strike

**Cylindrical**

**10-025** **1 3/16" lip, ANSI, no box, 1 1/4" x 4 7/8"**

**Mortise**

**10-072** **1 3/16" lip, 1 1/4" x 4 7/8" square corner, box**

See price book for other available strikes

## 13 Door thickness

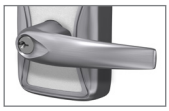
**1 3/4"**

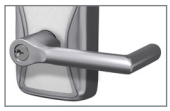
Other thicknesses available between 1 3/8" and 2 3/4"

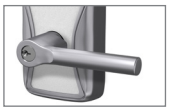
See price book for detail

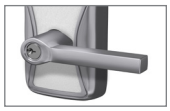
# Lever styles

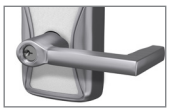
Conventional cylinders shown, SFIC and FSIC also available.


Athens

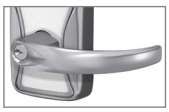

Boardwalk

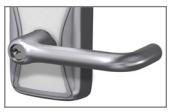

Broadway


Latitude


Longitude

Rhodes


Sparta


Tubular

# Finishes

Warm tone finishes

605 Bright brass

606 Satin brass

612 Satin bronze

643e Aged bronze

Cool tone finishes

619 Satin nickel

625 Bright chrome

626 Satin chrome

626AM Satin chrome with antimicrobial

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# AD Series

## Exit trim compatibility

## Overview

The AD Series electronic lock is available in 993 Exit Trim for use on openings that require exit devices for either retrofit or new construction applications. Offline and networked solutions are available. The 993 Exit Trim was designed to suite with AD Series cylindrical and mortise locksets to ensure that the facility remains aesthetically consistent. The AD Series 993 Exit Trim utilizes universal hardware to simplify installation of offline trim to a variety of exit devices, including rim style from Von Duprin, Falcon, Sargent®, Precision™ Corbin Russwin, Dorma®, and Yale®.

Available Exit Trim styles:

- 993R – Rim, concealed vertical cable or concealed vertical rod (CVC and CVR for metal doors only)
- 993S – Surface vertical rod
- 993M – Mortise

## Features and benefits

- Multiple credential reader options
- Offline and networked communication options
- A wide variety of finishes and lever styles
- Power options that include hardwired (12 VDC or 24 VDC) or batteries (4AA or 8AA)
- Compatible with all Schlage Conventional, FSIC and SFIC formatted cylinders including many competitive OEM cylinders such as, Sargent®, Corbin Russwin, Medeco® and Yale®

### Compatibility

| Devices | AD-200/250 | AD-300/AD-302[3] AD-400/AD-402[3] |
|---|---|---|
| Von Duprin 98/99 and 98/99XP rim/SVR/ CVR[1]/CVC[1]/mortise | X | X |
| Von Duprin 22/22F rim/SVR | X | X |
| Falcon 25 rim | X | X |
| Sargent® 80[2] rim | X | |
| Precision™ 21 rim (2100 converts to 21 with Precision's BP21 kit) | X | |
| Yale® 7000 rim | X | |
| Corbin Russwin 5000 rim | X | |
| Dorma® 9300 rim | X | |

1 For metal doors only

2 Narrow design and reversible rim exits not compatible.

3 The proper low current request to exit switch (RX-LC) is required for AD-300/302 and AD-400/402. Part numbers for request to exit switch:

- Von Duprin: 050281
- Falcon: 650359

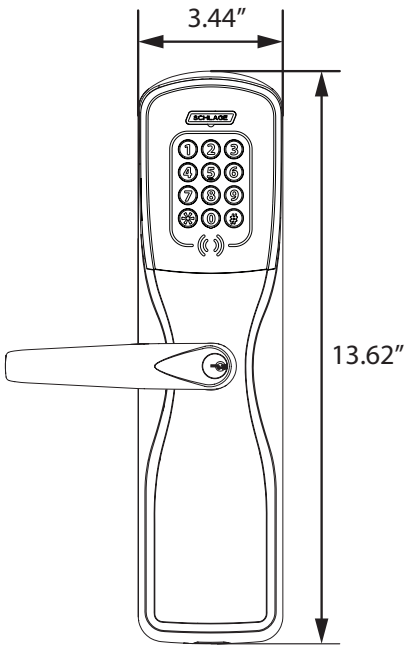
## Available AD Series reader modules[2]

- Multi-technology (125 kHz proximity and 13.56 MHz smart card)
- FIPS 201-2 compliant multi-technology (125 kHz proximity and 13.56 MHz smart card)
- Smart – iClass compatible
- NFC mobile enabled
- Magnetic stripe
- Keypad only
- All credential readers available + keypad

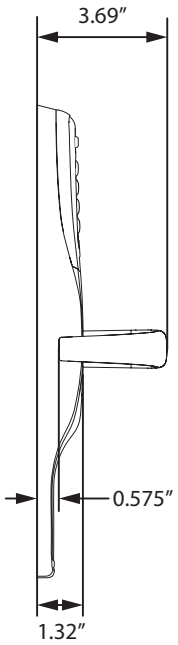
## Available communication options

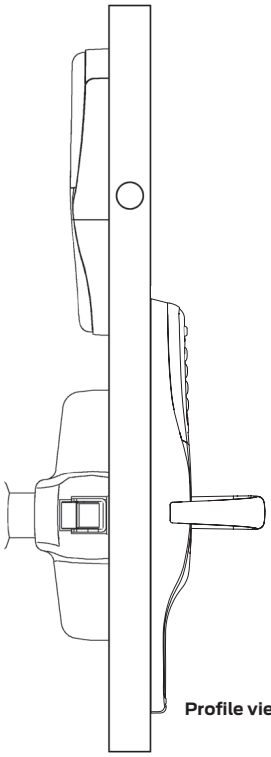
- AD-400: Networked wireless locks
- AD-402: Networked wireless locks - FIPS 201-2 compliant
- AD-300: Networked hardwired locks
- AD-302: Networked hardwired locks - FIPS 201-2 compliant
- AD-250: Offline, access rights stored on the magnetic stripe credential
- AD-200: Offline, access rights stored on the lock

[1] AD-300/302 includes LED indicator
[2] Unlike other AD Series chassis styles, upgrading reader modules on the 993 Exit Trim requires the exterior escutcheon to be removed from the door
[3] (2) #7 fasteners with decorative washers located 11.88" below bottom edge of lock

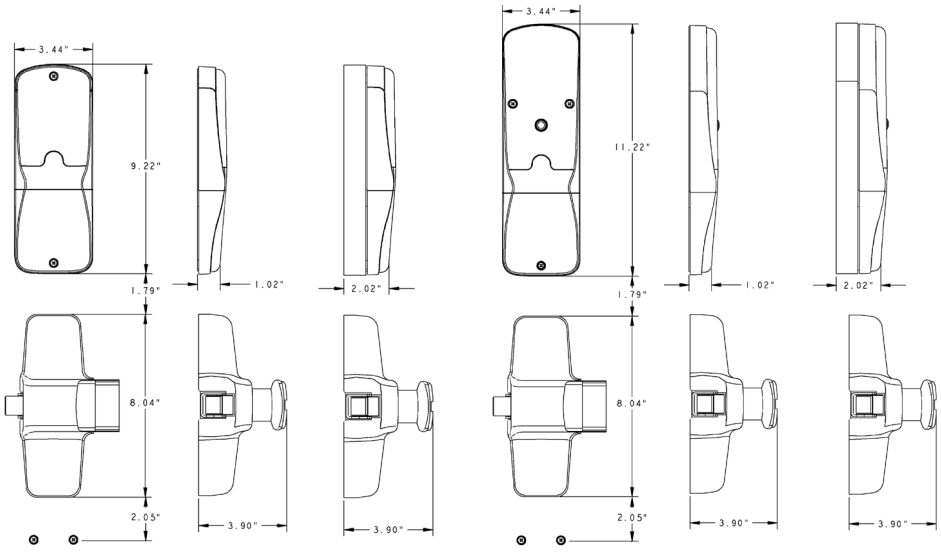



**Exterior view[3]**
AD Series - 993 Exit Trim



**Profile view**




**Interior view**
AD-200/ 250/300*/ 302[1] - all styles

**Side view**
AD-200/250/ 300[1]/302[1] – rim/CVR/CVC or mortise

**Side view**
AD-200/250/ 300[1]/302[1] SVR

**Interior view**
AD-400/402 all styles

**Side view**
AD-400/ 402 rim/CVR/CVC or mortise

**Side view**
AD-400/ 402 SVR

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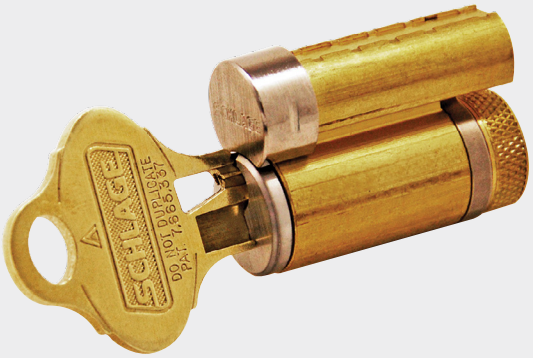
# AD Series and CO Series

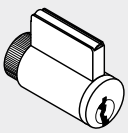
## Lever and cylinder compatibility



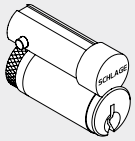

## Overview

AD Series and CO Series electronic locks come standard with the Schlage® 6-pin Everest 29™ S123 keyway and two patented keys. The Everest 29 keyway's patent-protected undercut design with protection through 2029 is available in open and restricted keyway families. Patented restricted keyways, such as the Everest 29 R and T families, deliver a higher level of security by requiring authorization to access blanks for duplication. Improve both administrative and physical security with the application of Primus XP cylinders and gain the option to also employ high security UL 437 cylinders. The Everest 29 design enables a key blank that is backwards compatible to legacy Everest keyways allowing Everest 29 keys to work with existing Everest systems aiding the key system migration process.

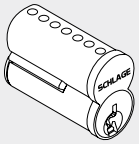
The AD Series and CO Series can also be ordered with other popular Schlage keyways or prepared to receive Falcon® Conventional key-in-lever cylinders or Small Format Interchangeable Core (SFIC) cylinders. Less cylinder options are available to provide compatibility with Conventional, FSIC or SFIC cylinders of other manufacturers including, Sargent,® Corbin Russwin,® Medeco® and Yale.®



Conventional key-in-lever P, P6, Z, L, L-SAR, L-FA7




Full Size Interchangeable Core R, M, J-SAR, J-CO6, J-CO7, J-MED, J-YA6, J-YA7




Small Format Interchangeable Core G7, B

## Features and benefits

- The key-in-lever design of AD and CO Series fits a full range of Schlage cylinders featuring administrative security options from open to patented and patented restricted keyways[1]
- Primus cylinder and key options provide enhanced physical security in the cylinder including a UL 437 listed high-security option and a patent protected key design with geographic exclusivity
- Levers are offered in a wide variety of finishes and styles
- Cylindrical, mortise, mortise deadbolt and exit trim options available
- Compatible with all Schlage Conventional, FSIC, SL (as Conventional and FSIC), and SFIC formatted cylinders including many competitive OEM cylinders
- SL cylinder option allows an Everest 29 R or legacy Everest B keyway facility to gain a Primus program level security
- AD and CO 993 exit trim is compatible with a variety of exit devices including rim style from Von Duprin, Falcon, Sargent,® Precision,™ Corbin Russwin,® Dorma® and Yale.®

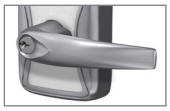
[1] Available on AD Series only.

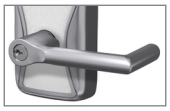
## Lever and cylinder compatibility

| | | | | Cylinder type | | | Lever style | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Part number** | **Description** | **With cylinder** | **Pins** | **KIL** | **FSIC** | **SFIC** | **ATH** | **BRK** | **BRW** | **LAT** | **LON** | **RHO** | **SPA** | **TLR** |
| P | Schlage® - (6-pin, keyed 5) | x | 6 | x | | | x | x | x | x | x | x | x | x |
| P6 | Schlage - Everest 29 S (default) | x | 6 | x | | | x | x | x | x | x | x | x | x |
| Z | Schlage SL - Everest 29 R keyways | x | 7 | x | | | x | x | x | x | x | x | x | x |
| L | Schlage, Falcon® | | 6 | x | | | x | x | x | x | x | x | x | x |
| R | Schlage - Everest 29 S (default) | x | 6 | | x | | x | x | x | x | x | x | x | x |
| M | Schlage SL -Everest 29 R keyways | x | 7 | | x | | x | x | x | x | x | x | x | x |
| J | Schlage | | 6 | | x | | x | x | x | x | x | x | x | x |
| G7 | Schlage Everest 29 R keyways | x | 7 | | | x | x | x | x | x | x | x | x | x |
| B | Schlage, Falcon, Competitive OEM's | | 7 | | | x | x | x | x | x | x | x | x | x |
| L-FA7 | Falcon | | 7 | x | | | | x | x | x | x | x | x | |
| L-SAR | Sargent® (10L+11L) | | 6 | x | | | x | x | x | x | x | x | x | x |
| J-SAR | Sargent 6300 | | 6 | | x | | x | x | x | x | x | x | x | x |
| J-CO6 | Corbin® 8000 | | 6 | | x | | x | x | x | x | x | x | x | x |
| J-CO7 | Corbin 8000-7 | | 7 | | x | | | x | x | x | x | x | x | x |
| J-MED | Medeco® 32*0201 | | 6 | | x | | | x | x | x | x | x | x | |
| J-YA6 | Yale® 1210 or Medeco 31*0100 | | 6 | | x | | x | x | x | x | x | x | x | x |
| J-YA7 | Yale 1220 | | 7 | | x | | | x | x | x | x | x | x | |

## Lever styles

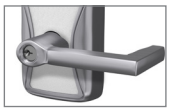
Conventional cylinders shown, SFIC and FSIC also available.


Athens


Boardwalk

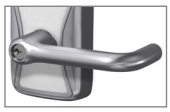
Broadway

Latitude


Longitude

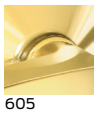
Rhodes

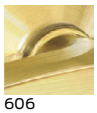
Sparta

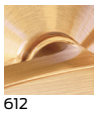

Tubular

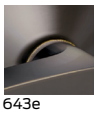
## Finishes

Warm tone finishes


605
Bright brass


606
Satin brass


612
Satin bronze


643e
Aged bronze

Cool tone finishes

619
Satin nickel

625
Bright chrome

626
Satin chrome

626AM
Satin chrome with antimicrobial

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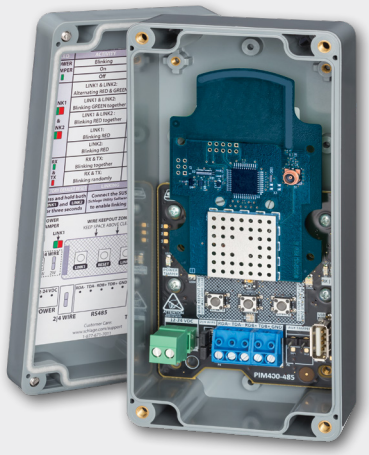
# PIM400-485

## Panel Interface Module for RS-485 communication



## Overview

The PIM400-485 seamlessly integrates to select access control panels via RS-485, eliminating the need for reader interface modules. Each PIM400-485 supports up to 16 wireless access devices such as AD-400/401 locks.

### Reliability

Reliable communications result from several technological advances and incorporated features. 900 MHz spread spectrum technology enables high transmission power in a license-free band. Error detection algorithm maintains data integrity on each transmission, and redundant transmissions ensure communication success. Periodic "heartbeat" signals provide supervision and assure reliable RF communications are maintained. Lastly, dynamic channel switching (DCS) can be enabled to overcome harsh RF environments by automatically changing channels to avoid potential interference.

### Security

Used extensively by government and military organizations, spread spectrum technology provides significant security advantages over conventional transmission methods. Wireless access devices utilize spread spectrum transmissions, which are encrypted with AES 128-bit keys, to yield a system that is virtually uncompromisable. In addition, scalability is virtually unlimited as each AD-Series wireless access module has nearly a million addresses to choose from during the linking process.

### Centralized lock/unlock command in 10 seconds or less

Patent-pending Wake-Up on Radio (WOR) feature drives communication from the PIM400 to any or all linked wireless devices in 10 seconds or less. This innovative feature works efficiently in parallel with periodic "heartbeat", to maintain up to 2 year battery life on wireless devices such as the AD-400/401 locks. Response rate can be field configured down to 1 second with consideration of battery life. When Wake-Up on Radio is used in critical applications, dynamic channel switching should also be enabled.

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## Features and benefits

- 900 MHz spread spectrum RF technology for long range, reliable communications
- Automatic linking to remote wireless access points with 10 channel frequencies to select from enables easy commissioning
- AES-128 bit encrypted spread spectrum transmissions
- 5 visual indicators to quickly pinpoint and display status
- Flash memory for easy firmware upgrades
- Certifications: NEMA 1, 4, 4X, 6; UL 294; FCC Part 15; RoHS; Industry Canada (IC)
- Redesigned with smaller footprint

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## PIM400-485 specifications

| | |
|---|---|
| Frequency range | 902-928 MHz |
| Modulation | 900 MHz spread spectrum, direct sequence, 10 channels |
| RF interference avoidance | Optional dynamic channel switching |
| Transmission/encryption | AES-128 bit key (optional) |
| Credential verification time | < 1 second[1] |
| Communication range | Up to 200 ft (61 m) with obstructions<br>Up to 1000 ft (305 m) clear line of sight<br>Up to 2000 ft (609 m) line of sight with high gain antenna on PIM400<br>Up to 4000 ft (1219 m) line of sight with high gain antennas on PIM400 and WRI400 |
| Visual/audible communications | 5 LEDs for status indicators |
| System interface | RS-485 |
| Power supply | 12 VDC or 24 VDC |
| Voltage range | 9.5 VDC to 26 VDC |
| Max current requirement | Up to 250 mA |
| Operating temperature | -31º to 151ºF (-35º to 66ºC) |
| Operating humidity | 0% to 100% non-condensing |
| Dimensions (H x W x D) | 6.3" x 3.2" x 2.2"<br>(16.0 cm x 8.13 cm x 5.59 cm) |
| Weight | 1.25 lb (.56 kg) |
| Cable specifications | DC power Input: 18AWG, 2 conductor (Belden 8760 or equivalent) up to 1000 ft (305 m)<br>PIM400-485 to ACP: 24AWG, 2 or 4 conductor shielded (Belden 9842, 9841 or equivalent) up to 4000 ft (1219 m) |
| Data rate | RF: 40 kbps; RS-485: 9.6 kbps |
| Certifications | NEMA 1, 4, 4X, 6; UL 294; FCC Part 15; Industry Canada (IC); RoHS |

# Ordering information

- **PIM400-485** –Panel Interface Module with outdoor enclosure standard. Supports up to 16 access points via RS-485 with select brands of access control panels.

### Optional accessories

- **ANT400-REM-I/O** – Omni-directional remote indoor/ outdoor antenna module. Requires available grounding kit (MGB+MCA5) for outdoor installations
- **ANT400-REM-I/O+6dB** – Directional, flat panel, remote indoor/outdoor antenna with 6dB of gain. Requires available grounding kit (MGB+MCA5) for outdoor installations
- **MGB+MCA5** – Grounding kit for outdoor installations
- **ANT400-REM-CEILING** – Omni-directional ceiling mount indoor remote antenna
- **ANT400-REM-HALL** – Bi-directional indoor hall application remote antenna
- **SUS-A Cable** – for use with SUS mobile app on compatible Android devices
- **593PI-12DC** – 12 VDC power supply

1 Dependant on latency time of access control panel.

# Additional features

**Reliable communications**
900 MHz band enables longer transmission ranges. In general, signal propagation with longer wavelengths travel a greater distance and penetrate through, and around objects better than signals with shorter wavelengths.

**Online communications (heartbeat)**
Regular communications between the AD-Series wireless access module and PIM400 monitor transmission presence and integrity. Online communications enable the PIM400 to download information or instructions such as unlock and relock.

**Auto addressing (linking)**
One of the final steps in the installation process is called "linking". Linking ties a specific wireless access module to a selected PIM400 and assigns a unique address. There are over 65,000 unique addresses available per channel, providing nearly a million combinations for virtually unlimited scalability.

**Assured communications**
A Packet-Error-Rate-Test (PERT) is performed during linking at reduced power levels to ensure reliable communication during operation.

**Encoded transmissions**
Each RF transmission is encrypted with AES-128 bit keys to provide virtually uncompromisable security.

**Tamper**
The PIM400 cover is monitored by an optical tamper switch.

**Visual indications**
- Power on
- Microprocessor running
- Linking status
- PIM receiving RF data
- PIM transmitting RF data
- PIM receiving RS-485 data
- PIM transmitting RS-485 data
- PIM firmware version
- PIM tamper status

**Access point status available through RS-485 connection**
- Card and keypad data
- Door position
- Loss of RF communication
- Request-to-exit
- Request-to-enter
- Low battery
- PIM tamper
- Mechanical key override
- Deadbolt position
- Interior cover tamper guard
- Lock/unlock status
- Interior push button

**Configurable items from PIM400-485**
- Wake-Up on Radio (WOR)
- Heartbeat frequency
- Relock parameters
- Card data format conversion
- Extended unlock
- Fail safe/fail secure/fail as-is
- Door held pre-alarm
- Cache memory parameters
- Dynamic channel switching (DCS)
- Reader configuration
- Keypad configuration
- Inside pushbutton configuration
- User interface configuration

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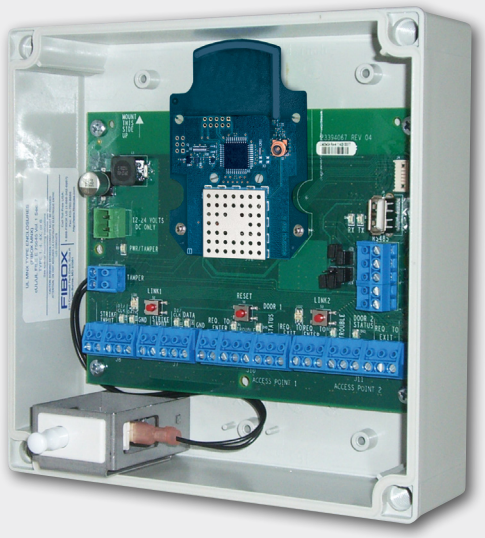
# PIM400-TD2

## Panel Interface Module Wiegand or Clock & Data communication



## Overview

The PIM400-TD2 seamlessly integrates to virtually any access control panel and their reader interface modules via Wiegand or Clock & Data protocols. Each PIM400-TD2 supports up to two wireless access devices such as AD-400/401 Series locks.

### Reliability

Reliable communications result from several technological advances and incorporated features. 900 MHz spread spectrum technology enables high transmission power in a license-free band. Error detection algorithm maintains data integrity on each transmission and redundant transmissions ensure communication success. Periodic "heartbeat" signals provide supervision and assure reliable RF communications are maintained. Lastly, dynamic channel switching (DCS) can be enabled to overcome harsh RF environments by automatically changing channels to avoid potential interference.

### Security

Used extensively by government and military organizations, spread spectrum technology provides significant security advantages over conventional transmission methods. Wireless access devices utilize spread spectrum transmissions, which are encrypted with AES-128 bit keys, to yield a system that is virtually uncompromisable. In addition, scalability is virtually unlimited as each AD Series wireless access module has nearly a million addresses to choose from during the linking process.

### Centralized lock/unlock command in 10 seconds or less

Patent-pending Wake-Up on Radio (WOR) feature drives communication from the PIM400 to any or all linked wireless devices in 10 seconds or less. This innovative feature works efficiently in parallel with periodic "heartbeat" to maintain up to 2 year battery life on wireless devices such as the AD-400/401 locks. Response rate can be field configured down to 1 second with consideration of battery life. When Wake-Up on Radio is used in critical applications, dynamic channel switching should also be enabled.

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## Features and benefits

- 900 MHz spread spectrum RF technology for long range, reliable communications
- Supports up to two AD Series wireless devices
- Automatic linking to remote wireless access points with 10 channel frequencies to select from enables easy commissioning
- AES-128 bit encrypted spread spectrum transmissions
- 13 visual indicators to quickly verify operation and troubleshoot
- Flash memory for easy software upgrades
- Certifications: NEMA 1, 4, 4X, 6; UL 294; FCC Part 15; RoHS; Industry Canada (IC)

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## PIM400-TD2 specifications

| | |
|---|---|
| Frequency range | 902-928 MHz |
| Modulation | 900 MHz spread spectrum, direct sequence, 10 channels |
| RF interference avoidance | Optional dynamic channel switching |
| Transmission/encryption | AES-128 bit key (optional) |
| Credential verification time | < 1 second[1] |
| Communication range | Up to 200 ft (61 m) with obstructions<br>Up to 1000 ft (305 m) clear line of sight<br>Up to 2000 ft (609 m) line of sight with high gain antenna on PIM400<br>Up to 4000 ft (1219 m) line of sight with high gain antennas on PIM400 and WRI400 |
| Visual/audible communications | 13 LEDs for status indicators |
| System interface | Wiegand (data1/data0) or magnetic stripe (Clock & Data) |
| Power supply | 12 VDC or 24 VDC |
| Voltage range | 9.5 VDC to 26 VDC |
| Max current requirement | Up to 250 mA |
| Operating temperature | -31º to 151ºF (-35º to 66ºC) |
| Operating humidity | 0 - 100% non-condensing |
| Dimensions (H x W x D) | 7.1" x 7.1" x 3.0"<br>(18.0 cm x 18.0 cm x 7.6 cm) |
| Weight | 1.25 lb (.56 kg) |
| Cable specifications | DC power Input: 18AWG, 2 conductor (Belden 8760 or equivalent) up to 1000 ft (303 m)<br>PIM400-TD2 to ACP: 22AWG, 8 conductor shielded (Alpha 1298C or equivalent) up to 500 ft (152 m) |
| Data rate | RF: 40 kbps |
| Certifications | NEMA 1, 4, 4X, 6; UL 294; FCC Part 15; RoHS; Industry Canada (IC) |

# Ordering information

- **PIM400-TD2** – Panel Interface Module with outdoor enclosure standard. Supports up to two access points via Wiegand or Clock & Data with virtually any access control panel.

### Optional accessories

- **ANT400-REM-I/O** – Omni-directional remote indoor/outdoor antenna module. Requires available grounding kit (MGB+MCA5) for outdoor installations
- **ANT400-REM-I/O+6dB** – Directional, flat panel, remote indoor/outdoor antenna with 6dB of gain. Requires available grounding kit (MGB+MCA5) for outdoor installations
- **MGB+MCA5** – Grounding kit for outdoor installations
- **ANT400-REM-CEILING** – Omni-directional ceiling mount indoor remote antenna
- **ANT400-REM-HALL** – Bi-directional indoor hall application remote antenna
- **SUS-A Cable** – for use with SUS mobile app on compatible Android devices
- **593PI-12DC** – 12 VDC power supply

Available through one of our GSA schedule 84 approved distributors

[1] Dependant on latency time of access control panel.

# Additional features

**Reliable communications**
900 MHz band enables longer transmission ranges. In general, signal propagation with longer wavelengths travel a greater distance and penetrate through, and around objects better than signals with shorter wavelengths.

**Online communications (heartbeat)**
Regular communications between the AD Series wireless access module and PIM400 monitor transmission presence and integrity. Online communications enable the PIM400 to download information or instructions such as unlock and relock.

**Auto addressing (linking)**
One of the final steps in the installation process is called "linking". Linking ties a specific wireless access module to a selected PIM400 and assigns a unique address. There are over 65,000 unique addresses available per channel, providing nearly a million combinations for virtually unlimited scalability.

**Assured communications**
A packet-error-rate-test (PERT) is performed during linking at reduced power levels to ensure reliable communication during operation.

**Encoded transmissions**
Each RF transmission is encrypted with AES-128 bit keys to provide virtually uncompromisable security.

**Tamper**
The PIM400 cover is monitored by a tamper switch.

**Visual LED indications**
- Power on
- Microprocessor running
- Linking status to WAPM
- PIM transmitting RF data
- PIM receiving RF data
- PIM receiving data
- PIM transmitting data
- Door position
- PIM tamper status
- PIM firmware version
- Wiegand and Clock & Data status 1 & 2
- Door status 1 & 2
- Trouble 1 & 2

**Standard open collector contacts**
- Configurable for normally open or normally closed
- Door position
- Request-to-exit
- Request-to-enter
- Trouble

**Optional relay board (RLBD) to achieve dry contact**
- Configurable for normally open or normally closed
- Door position
- Request-to-exit
- Request-to-enter
- Trouble

**Access point status available through PIM400-TD2**
- Wiegand or magnetic stripe card data
- Door position
- Request-to-exit
- Request-to-enter (optional)
- Trouble
  - Loss of RF communication
  - Low battery
  - PIM tamper
  - Reader tamper

**Configurable items from PIM400-TD2**
- Wake-Up on Radio (WOR)
- Heartbeat frequency
- Relock parameters
- Card data format conversion
- Extended unlock
- Fail safe/fail secure/fail as-is
- Door held pre-alarm
- Cache memory parameters
- Dynamic channel switching (DCS)
- Reader configuration
- Keypad configuration
- User interface configuration

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# PIM400-1501-LC

## 16 door intelligent controller for AD Series wireless devices; powered by Mercury

## Overview

The Schlage intelligent controller powered by Mercury is designed to provide a complete and cost effective IP addressable access control solution for up to 16 wireless AD Series devices. By combining the strength of the AD Series wireless PIM400 with customized functionality of the LP1501 intelligent controller from Mercury, this single device provides a compact solution that simplifies installation and cost of implementation. LP1501 controller is not included and must be purchased separately.

The PIM400-1501-LC can extend a facility's access control to remote locations and can be centrally managed by an IP network connection. By having an IP connection you can easily hook on to the existing network without the need for additional wiring requirements such as RS232 or RS485 cables. By leveraging the full portfolio of Schlage Wireless devices including the AD-400 locksets, WPR400 portable readers, and WRI400 reader interfaces there is the ability to support a broad range of applications including traditional openings that may require electric strikes or wall mounted readers.

The PIM400-1501-LC is pre-wired with external RJ-45 and USB connections. To further simplify installation, the device can be Powered over Ethernet (PoE) or receive 12VDC supply.

Once configured, the PIM400-1501-LC functions independently of the host in the event network connectivity is lost. Thus, the PIM400-1501-LC can continue to manage access control to up to 16 wireless devices even when the network is disconnected. The intelligence of the PIM400-1501-LC extends beyond just its capacity for 240,000 cardholders and 50,000 audit events to include the ability to manage elaborate interdependencies among the devices.

## Features and benefits

- Standard IP addressable intelligent controller for up to 16 AD Series wireless devices.
- Decentralized system intelligence capable of managing up to 240,000 cardholders and 50,000 transactions in memory if temporarily disconnected from network
- PoE compliant to IEEE 802.3af
- Optional 12VDC external power supply to achieve UL294 Listing
- 900 MHz communication between PIM400-1501-LC and AD Series wireless devices for secure, AES-128 bit encrypted transmission
- Patent-pending wireless lockdown/unlock feature (10 seconds or less) preserves up to 2 year battery life in wireless device
- External RJ-45 and USB connectors for simplified installation and use
- Capable of managing a combination of AD-400, WPR400, and WRI400 devices for applications ranging from traditional doors to elevators and parking gates

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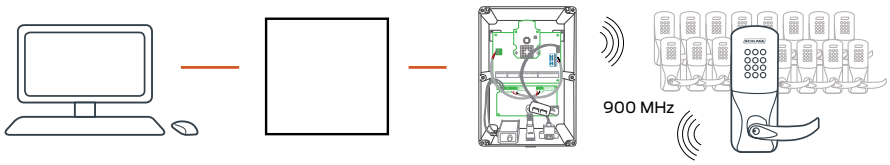
## PIM400-1501-LC 16 door intelligent controller

| | |
|---|---|
| Modulation / encryption | 900 MHz spread spectrum, direct sequence, 10 channels, AES-128 bit key |
| Frequency range | 902-928 MHz |
| Credential verification time[1] | < 1 second[1] |
| Communication range | ▪ Up to 200 ft (61 m) indoor range, with normal building obstructions<br>▪ Up to 1000 ft (305 m) clear line of sight<br>▪ Up to 2000 ft (609 m) line of sight with high gain antenna on PIM400<br>▪ Up to 4000 ft (1219 m) line of sight with high gain antennas on PIM400-1501-LC and WRI400. |
| RF interference avoidance | Configurable Dynamic Channel Switching |
| Operating temperature | 32º F to 151º F, 0º C to 66º C |
| Humidity | 10% to 95% relative humidity non-condensing |
| Power input | PoE, 12.95W compliant to IEEE 802.3af or 12VDC +- 10% 400mA max power supply |
| Communication to host | 10 Base-T / 100Base-TX |
| Intelligent controller memory | 240,000 cardholders, 50,000 transaction buffer<br>32 Access levels per cardholder<br>Activation/deactivation dates |
| Dimensions | 10.43" X 7.28" X 3.79" (26.49cm X 18.49 cm X 9.63 cm) |
| Weight | 2.8 lbs. |
| Certifications | FCC Part 15, Industry Canada(IC), RoHS<br>UL294 Listed[2] when connected to UL294 power supply |




Access control management system

PoE Network Switch

Panel interface module (PIM400-1501-LC)

Rev 1.14.6 or higher

AD-400 wireless devices (Up to 16 devices)

## Optional accessories

- **ANT400-REM-I/O** – Omni-directional remote indoor/ outdoor antenna module. Requires available grounding kit (MGB+MCA5) for outdoor installations
- **ANT400-REM-I/O+6dB** – Directional, flat panel, remote indoor/outdoor antenna with 6dB of gain. Requires available grounding kit (MGB+MCA5) for outdoor installations
- **MGB+MCA5** – Grounding kit for outdoor installations
- **ANT400-REM-CEILING** – Omni-directional ceiling mount indoor remote antenna
- **ANT400-REM-HALL** – Bi-directional indoor hall application remote antenna
- **SUS-A Cable** – for use with SUS mobile app on compatible Android devices
- **WPR400** – Wireless Portable Reader
- **WRI400** – Wireless Reader Interface
- **REPTR400** – Wireless Repeater

PIM400-1501-LC has RJ-45 and USB external connectors to make installation easy.

[1] Lock requires less than 100 msec, response time does not include latency time of ACP

[2] Confirm with your Physical Access Control Software (PACS) provider

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# TK400

## AD Series Wireless Test Kit

## Overview

The Schlage AD Series TK400 Wireless Test Kit can help you evaluate system design on new AD-400 wireless networked systems prior to installation. The TK400 can also be used to diagnose communication strength on existing AD-400 wireless applications. AD-400 locks and devices including the Wireless Reader Interface (WRI400), and Wireless Portable Reader (WPR400) communicate via 900 MHz frequency to the Panel Interface Module (PIM400); the PIM400 is required for communication between the AD-400 devices and the access control panel.

The TK400 Wireless Test Kit contains a Wireless Portable Signal Tester (WPR400-DT), a Panel Interface Module (PIM400-TD2), a PIM400 power supply, 8 AA alkaline batteries, and a convenient carrying case. The WPR400-DT operates on batteries, making it convenient and easy to maintain on job sites.

The Wireless Portable Signal Tester (WPR400-DT) is used to communicate to the PIM400 as an access control module. LED lights provide intuitive feedback about the quality of the signal.

The communication range of the AD-400 to the PIM400 is up to 200 feet with normal building construction and up to 1000 feet with clear line of sight. The TK400 can be used to determine the proper location of each Panel Interface Module (PIM) to optimize system design. When installed properly, an AD-400 wireless solution is an extremely reliable and cost effective alternative to a hardwired networked system.

## Features and benefits

- Allows you to test the range of 900 MHz signals between AD-400 devices and PIM400 to ensure proper location prior to installation of complete system.
- Can be used to test existing installations for signal strength
- LED light feedback for signal strength communication; green for strong connection, red for weak connection
- Kit comes complete with:
  - Wireless portable signal tester (WPR400-DT)
  - Panel Interface Module (PIM400-TD2)
  - Power supply for PIM400-TD2
  - 8 AA off-the-shelf batteries
  - Carrying case
- WPR400-DT certifications: FCC Part 15, Industry Canada (IC), RoHS
- PIM400-TD2 certifications: NEMA 1, 4, 4X, 6; UL 294, FCC Part 15, Industry Canada (IC), RoHS

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## Wireless portable signal tester

| | |
|---|---|
| Frequency range | 902-928 MHz |
| Modulation | 900 MHz spread spectrum, direct sequence, 10 channels |
| Communication | Up to 200 ft with obstructions (normal building); up to 1000 ft clear line of sight |
| Operating temperature | 0ºC (32ºF) to 49ºC (120ºF) |
| Humidity | 0% to 100% non-condensing |
| Battery type | 8AA alkaline batteries |
| Dimensions (H x W x D) | 2.375" x 5.0" x 6.25" (6.03 cm x 12.7 cm x 15.88 cm) |
| Certifications | ▪ FCC Part 15<br>▪ Industry Canada (IC)<br>▪ RoHS |

### Visual LED indications

- Wireless signal quality
- Low battery

## PIM400-TD2

| | |
|---|---|
| Frequency range | 902-928 MHz |
| Modulation | 900 MHz spread spectrum, direct sequence, 10 channels |
| Communication | Up to 200 ft with obstructions (normal building); up to 1000 ft clear line of sight |
| Operating temperature | -31º to 151ºF (-35º to 66ºC) |
| Humidity | 0% to 100% condensing |
| Power supply | 12 VDC or 24VDC (12 VDC power supply included) |
| Dimensions (H x W x D) | 7.1" x 7.1" x 3.0" (18.0 cm x 18.0 cm x 7.6 cm) |
| Weight | 1.25 lb (.56 kg) |
| Certifications | ▪ NEMA 1, 4, 4X, 6<br>▪ UL 294<br>▪ FCC Part 15<br>▪ Industry Canada (IC)<br>▪ RoHS |

### Visual LED indications

- Power on
- Linking status to AD-400 devices
- PIM transmitting/receiving RF data

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# WPR400

## AD Series Wireless Portable Reader

## Overview

The Schlage® AD Series Wireless Portable Reader (WPR400) was designed to extend a facility's access control to remote locations, at a moment's notice.

The WPR400 is a portable device that utilizes the same credential reader module as an AD Series electronic lock. The WPR400 can be held by hand or placed in a convenient temporary location to allow for credential verification. Whether it is at a temporary check point or bus load registration, the WPR400 will provide simple, intuitive feedback to the user if the credential being presented is valid or invalid via real time connectivity to the access control system.

The WPR400, as well as other AD-400 locks and devices, communicate via 900 MHz frequency to the Panel Interface Module (PIM400); the PIM400 is required for communication between the AD-400 devices and the access control panel.

The WPR400 was designed to be intuitive to use and easy to set up, which is critical in situations where there is a need for remote credential verification. At power-on and within range, the WPR400 is ready to accept its first credential within moments of powering up and reconnecting to the previously paired PIM400. After the credential has been authenticated by the access control system, the WPR400 provides intuitive LED light feedback.

The WPR400 also has the ability to be configured to cache mode. When enabled, the WPR400 keeps a local database of valid access grants. Upon moving the WPR400 to an offline location away from the PIM400, credentials can be verified for the last 1000 valid users.

Finally, the WPR400 can be manually configured to operate as a wireless portable tester. In Wireless Test Mode, the device can be used to evaluate the location of PIM400s and AD-400 devices within a specific environment, or the existing reader module can remain installed on the WPR400.

[1] Refer to the Schlage/aptiQ mobile credential compatibility chart for a list of certified devices.

## Features and benefits

- Fully compatible with Schlage AD Series credential reader modules & Panel Interface Modules
- Reader options include multi-technology (reads both 13.56 MHz smart card and 125 kHz proximity), iClass compatible, magnetic stripe and keypad
- Card reader options available with keypad for multi-factor authentication
- Cache mode option for offline applications
- Field configurable to work as a wireless portable signal tester
- Configured with the SUS Android mobile app and SUS-A Cable
- LED indicators communicate valid (green) and invalid (red) credential status
- Communicates to access control system via PIM400
- FCC Part 15, Industry Canada (IC), RoHS
- Comes with 8 AA off-the-shelf batteries

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## Wireless portable reader specifications

| | |
|---|---|
| Modulation / encryption | 900 MHz spread spectrum, direct sequence, 10 channels<br>AES-128 bit key |
| Frequency range | 902-928 MHz |
| Credential verification time[1] | < 1 second[1] |
| Communication range | Up to 200 ft with obstructions (normal building);<br>up to 1000 ft clear line of sight |
| RF interference avoidance | Configurable dynamic channel switching |
| Data rate | 40 kbps |
| Operating temperature | 0ºC (32ºF) to 49ºC (120ºF) |
| Humidity | 0% to 100% non-condensing |
| Battery type | 8AA alkaline batteries |
| Battery life | Up to 2 years at 40,000 card reads or PIN codes per year |
| Dimensions<br>(H x W x D, less reader) | 3.375" x 5.0" x 6.25"<br>(8.57 cm x 12.7 cm 15.88 cm) |
| Weight (less reader) | 1.5 lb (0.68 kg) |
| Certifications | FCC Part 15, Industry Canada (IC), RoHS |
| Additional accessories | Panel Interface Module (PIM400), SUS-A Cable used with SUS mobile app on compatible Android devices |

## Included with WPR400

- AD Series credential reader module specified at ordering

## Modes of operation

- Reader mode (default)
- Wireless test mode (field configurable)

## Available AD Series reader modules[2]

**Multi-technology**
- Proximity
- Smart card

KEYPAD

**Multi-technology**
- Proximity
- Smart card

**Smart – iClass compatible**
- Smart card

KEYPAD

**Smart – iClass compatible**
- Smart card

**Magnetic stripe (insertion)**

KEYPAD

**Magnetic stripe (insertion)**

**Magnetic stripe (swipe)**

KEYPAD

**Magnetic stripe (swipe)**

**Keypad**

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[1] WPR requires less than 100 msec, response time does not include latency time of ACP

[2] Dummy trim reader module also available. Please see AD Series data sheets for more details on credential reader modules.

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## Reliability

Secure and reliable wireless communication with the Panel Interface Module (PIM400) is accomplished using 900 MHz frequency. 900 MHz band enables longer transmission ranges because signal propagation with longer wavelengths travels a greater distance and better penetrates typical building construction – allowing for simplified system design.

## Panel Interface Module (PIM400)

The PIM400 (sold separately) is required for communication between the WPR400/402 and the access control panel, and can support up to 16 AD-400 devices depending on your access control system.

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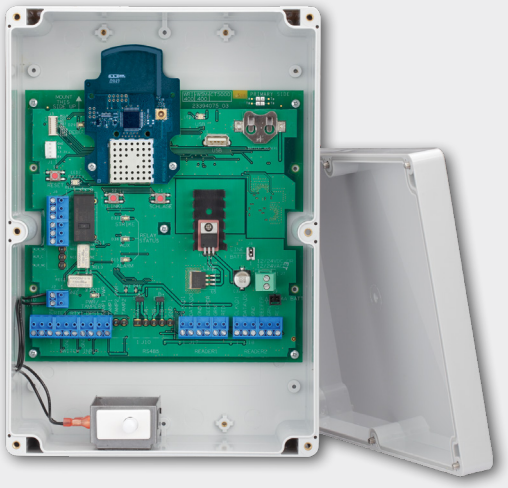
# WRI400

## Wireless Reader Interface



## Overview

The WRI400 is a networked access point controller designed to provide wireless connectivity to traditional electronic access control components including credential readers, door position and request-to-exit switches.

The WRI400 Wireless Reader Interface provides local termination points for your wall or mullion mounted reader, door position switch, request-to-exit (RX) and reader tamper. The WRI400 communicates data via 900 MHz back to either a PIM400-485 or PIM400-TD2 which are hardwired to the Access Control Panel (ACP) where all access and specific reporting decisions are made and recorded.

The WRI400 is designed to be compatible with most of the popular Wiegand or Clock & Data format readers that exist in the market today. Utilizing the two form C relays on board expands the capability at the door to control electronic locking hardware as well as other devices such as automatic operators.

The WRI400 allows you to extend the reach of your access control system to openings that are hard to reach with network wiring. Ideal applications include remote doors, historic buildings, gates and elevators. Since the WRI400 is built on an open architecture platform it is designed for seamless integration with most access control systems.

## Features and benefits

- Visual LED indications – WRI400 cover is monitored by a tamper switch
- Encryption – Each RF transmission is encrypted with AES-128 bit keys
- Reader interfaces support:
  - Wiegand (data1/data0) up to 255 bits
  - Magnetic stripe (Clock & Data) up to 255 bits
- Form C relay outputs:
  - Strike relay
  - Auxiliary output relay
- Signal inputs:
  - Request-to-enter
  - Request-to-exit
  - Door position switch
  - Reader tamper 1
  - Reader tamper 2
- Certification: NEMA 1, 4, 4X, 6; UL 294, FCC Part 15; Industry Canada (IC), RoHS

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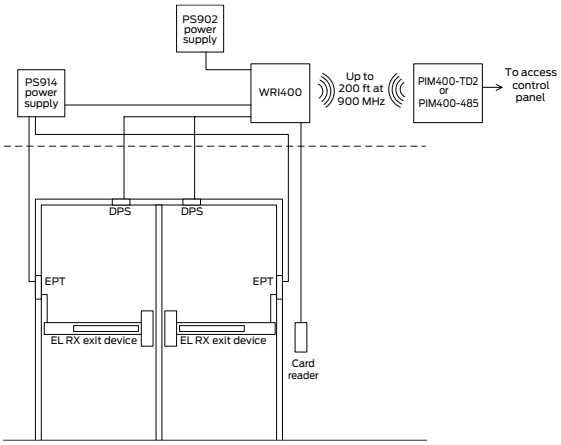
## WRI400 specifications

| | | |
|---|---|---|
| Frequency range | | 902-928 MHz |
| Modulation | | 900 MHz spread spectrum, direct sequence, 10 channels |
| RF interference avoidance | | Optional dynamic channel switching |
| Transmission/encryption | | AES-128 bit key (optional) |
| Data rate | | RF: 40 kbps |
| Credential verification time* | | < 1 second[1] |
| Communication range | | Up to 200 ft (61 m) normal building construction<br>Up to 1000 ft (305 m) clear line of sight (See ANT400-REM data sheet for increasing distance) |
| Power supply requirements | | 12 VDC or 24 VDC; 500 mA maximum current |
| Connector cable specifications | DC power input | 18AWG, 2 conductor (Belden 8760 or equivalent) up to 1000 ft (305 m) |
| | Credential readers (x2) | Data signals: 22AWG, 6 conductor (Alpha 1296C or equivalent) up to 500 feet (152 meters)<br>Reader tamper signals: 18AWG, twisted pair shielded (Beldon 8760 or equivalent) up to up to 500 feet (152 meters) |
| | Strike/aux relay outputs | 18AWG, 2 conductor (Belden 8760 or equivalent) up to 2000 feet (610 meters) |
| | Request-to-enter and -exit inputs | 18AWG, 2 conductor (Belden 8760 or equivalent) up to 2000 feet (610 meters) |
| Relay output tolerances | Strike output relay | Form C relay; 6 amps at 24 VDC or 6 amps at 120 VAC or 3 amps at 240 VAC |
| | Auxiliary output relay | Form C relay; 2 amps at 24 VDC or 0.5 amps at 120 VAC |
| Operating temperature | | -31°F (-35°C) to 151°F (66°C) |
| Operating humidity | | 0 - 100% condensing |
| Dimensions (H x W x D) | | 10.43" x 7.28" x 3.79"<br>(26.49 cm x 18.49 cm x 9.63 cm) |
| Certifications | | NEMA 1, 4, 4X, 6; UL 294; FCC Part 15; Industry Canada (IC); RoHS |




**Remote door application**

- For hard to reach openings, the WRI400 can extend your access control system saving you time and money by reducing wiring to the door from the panel.

[1] WRI requires less than 100 msec, response time does not include latency time of ACP.

## Additional features

### Reliable communications

900 MHz band enables longer transmission ranges. In general, signal propagation with longer wavelengths travel a greater distance and penetrate through, and around objects better than signals with shorter wavelengths.

### Online communications (heartbeat)

Regular communications between the WRI400 and PIM400 monitor transmission presence and integrity. Online communications enable the WRI400 to download information or instructions such as unlock and relock.

## Optional accessories

- **ANT400-REM-I/O** – Omni-directional remote indoor/ outdoor antenna module. Requires available grounding kit (MGB+MCA5) for outdoor installations
- **ANT400-REM-I/O+6DB** – Directional, flat panel, remote indoor/outdoor antenna with 6DB of gain. Requires available grounding kit (MGB+MCA5) for outdoor installations
- **MGB+MCA5** – Grounding kit for outdoor installations
- **ANT400-REM-CEILING** – Omni-directional ceiling mount indoor remote antenna
- **ANT400-REM-HALL** – Bi-directional indoor hall application remote antenna
- **SUS-A Cable** – for use with SUS mobile app on compatible Android devices
- **593PI-12DC** – 12 VDC power supply

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# GCK400 & ECK400

## Wireless Gate Control Kits and Elevator Control Kits

## Overview

The Gate Control Kit (GCK400) and the Elevator Control Kit (ECK400) complement and expand the AD Series platform by bringing wireless access control to applications that are difficult to reach with a traditional wired approach.

The GCK400 and the ECK400 are kits comprised of the Wireless Reader Interface (WRI400), the Panel Interface Module (PIM400-TD2), a Remote Antenna (ANT-REM I/O) and a power supply (593PI-12DC). The GCK400 kit also includes an antenna grounding kit (MGB+MCA5).

The Wireless Reader Interface (WRI400) is compatible with most popular Wiegand or Clock & Data format credential readers on the market today. The WRI400 communicates via 900MHz to the PIM400-TD2 within a range of up to 1000 feet with a clear line of sight. The PIM400-TD2 is hardwired to the access control panel where decisions are validated and recorded.

The GCK400 kit can eliminate the need for trenching in gate applications, driving a significant reduction of installation time and cost. The gate kit is ideal for parking lots, airports, military bases and garages. Roadways, parking lots and landscape are left intact since the need to run wires underground is eliminated.

The ECK400 eliminate the need for traveling cables to elevator applications simplifying installation. Access control can be applied to elevators at a much faster rate, reducing downtime and disruption within the facility.

## Features and benefits

- Real time access control
- Reduced installation time
- Eliminates trenching of communication lines
- Eliminates traveling cables in elevators
- Two paralleled reader inputs
- Supports all Wiegand (data1/data0) and magnetic stripe (clock/data) reader technologies

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## GCK400/ECK400 Kit contents

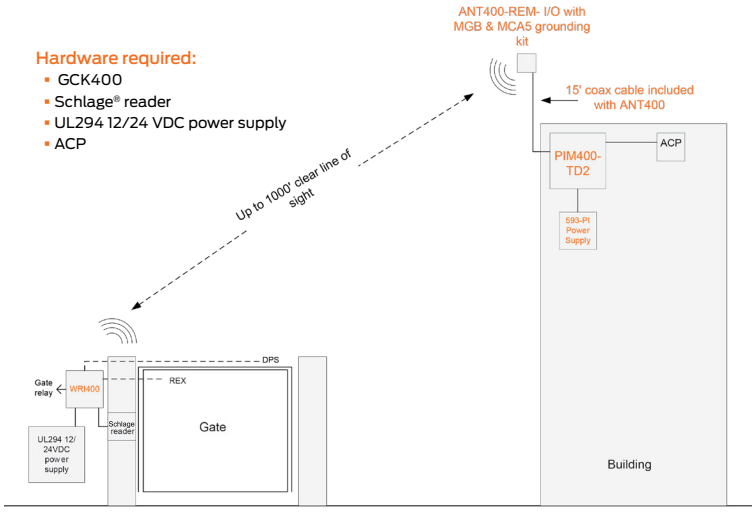
| Qty | Part Number | |
|---|---|---|
| 1 | ANT400-REM-I/O | Omni-directional, flat panel, remote indoor/ outdoor antenna with adjustable mount |
| 1 | WRI400 | Wireless reader interface connects to a reader and transmits signal to PIM |
| 1 | PIM400-TD2 | Panel interface module receives information through antenna and sends to access control provider panel for confirmation |
| 1 | 593PI-12 | Wall plug-in power supply converts 120v input to 12 VDC output supports WRI-400 |
| 1 | MGB+MCA5 (GCK400 only) | Antenna grounding kit |

## PIM400-TD2 specifications

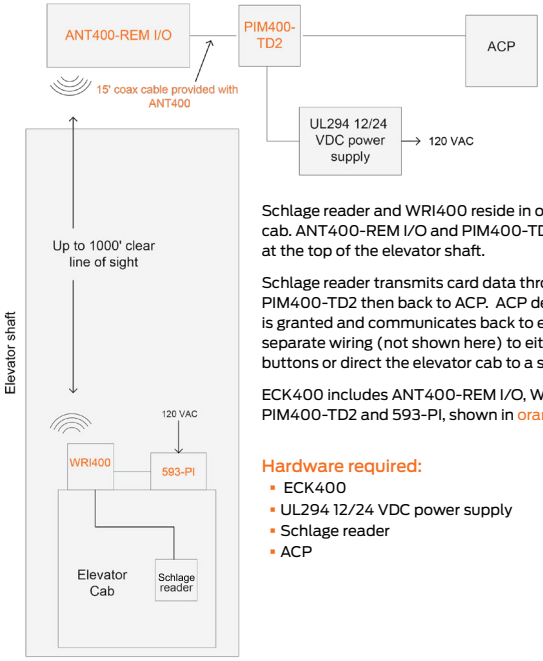
| | |
|---|---|
| Transmission / encryption | AES - 128 bit (optional) |
| Communication range | Up to 200 ft (61 m) with obstructions |
| | Up to 1000 ft (305 m) clear line of sight |
| | Up to 2000 ft (609 m) line of sight with high gain antenna on PIM400 |
| | Up to 4000 ft (1219 m) line of sight with high gain antennas on PIM400 and WRI400 |
| Dimensions (H x W x D) | 10.43" x 7.28" x 3.79' (26.49 cm x 18.49 cm x 9.63 cm) |

## WRI400 specification

| | |
|---|---|
| Frequency range | 902-928 MHz |
| Modulation | 900 MHz spread spectrum, direct sequence, 10 channels |
| RF interference avoidance | Optional dynamic channel switching |
| Data rate | RF: 40 kbps |
| Power supply requirements | 12 VDC or 24 VDC |
| Dimensions (H x W x D) | 10.43" x 7.28" x 3.79" (26.49 cm x 18.49 cm x 9.63 cm) |
| Operating temperature | - 31ºF (-35ºC) to 151ºF (66ºC) |
| Strike output relay | Form C relay: 6 amps at 24 VDC or 6 amps at 120 VAC or 3 amps at 240 VAC |
| Auxillary output relay | Form C relay: 2 amps at 24 VDC or 0.5 amps at 120 VAC |
| Dimensions (overall) | 8.7 in x 6.94 in x 4.5 in (220 mm x 176 mm x 140 mm) |
| Weight | 4.2 oz (120 grams) |




GCK includes WRI400, PIM400-TD2, ANT-REM I/O, MGB + MCA5 and 593-PI and are shown in orange. Items not included are in black. DPS and REX are optional.




Schlage reader and WRI400 reside in or on the elevator cab. ANT400-REM I/O and PIM400-TD2 normally reside at the top of the elevator shaft.

Schlage reader transmits card data through WRI400 to PIM400-TD2 then back to ACP. ACP determines if access is granted and communicates back to elevator cab via separate wiring (not shown here) to either enable floor buttons or direct the elevator cab to a specific floor.

ECK400 includes ANT400-REM I/O, WRI400, PIM400-TD2 and 593-PI, shown in orange.

**Hardware required:**
- ECK400
- UL294 12/24 VDC power supply
- Schlage reader
- ACP

# Ordering information

- **GCK400** - Wireless Gate Control Kit
- **ECK400** - Wireless Elevator Control Kit

### Optional accessories
- **ANT400 Hall** - Bi-directional indoor antenna ceiling mount
- **ANT400 –REM – I/O + 6 DB** - High gain, directional, flat panel remote indoor/outdoor antenna with 6 DB gain.
- **MGB + MCA5** - Antenna grounding kit for outdoor applications

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# ANT400-REM

## AD Series remote antennas for wireless system

Note: Images not to scale

## Overview

The Schlage ANT400-REM optional remote antennas are designed for use with the AD-400 Series devices. They increase installation flexibility of wireless products, extend the range of wireless communication in certain directions and expand the range of applications of AD Series solution.

A remote antenna is used to improve signal communication strength for wireless communications through an obstruction. A typical application would be when a remote device down a hallway requires a few extra feet of signal strength to reach the PIM400, which is sometimes located around a corner or behind a wire mesh or thick brick construction material.

When increased wireless communication range is required, the ANT400-REM-I/O+6dB model can up to double the range in the line of sight that it is aimed. This “gain antenna” increases the signal strength by focusing the energy in a single direction instead of broadcasting in all directions.

AD Series remote antennas are important components to environments with limited installation flexibility. The connected PIM400 can be up to 15 feet away from the remote antenna via the included coaxial cable. The outdoor rated antennas create new applications that allow a PIM400 to communicate to external remote access points such as gates or remote buildings without the need to trench cables.

## Features and benefits

- Use with PIM400 and WRI400
- Increase installation flexibility
- Optimize installation location
- Extend communication range with high-gain antenna
- Directional, bi-directional or omni-directional
- Indoor and outdoor options

**Included In:**

- ECK400 wireless elevator kit
- GCK400 wireless gate control kit

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## Remote antenna models

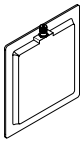
| Model | | | Description |
|---|---|---|---|
| ANT400-REM-I/O | Type | Quasi omni-directional, unity gain | **Intended use:** an omni-directional flat-panel antenna for use with indoor or outdoor applications. To be mounted vertically on a wall or post.<br><br>**Included:** antenna, 15 ft coax cable, coax whip, articulated wall/post mounting bracket.<br><br>Requires grounding kit (MGB+MCA5) for outdoor installations. |
| | Communication range extension | 15 ft due to cable length | |
| | Location | Indoor/outdoor | |
| | Dimensions (HxWxD) | 9.1" x 8.4" x 1.2" | |
| | Weight: | 0.5 kg | |
| | Temperature range: | -40ºC to +65ºC (-40ºF to +150ºF) | |
| ANT400-REM-I/O+ 6dB | Type | Directional, high gain | **Intended use:** a high gain, directional flat-panel antenna for use with indoor or outdoor applications. To be mounted vertically on a wall or post.<br><br>**Included:** antenna, 15 ft coax cable, coax whip and articulated wall/post mounting bracket.<br><br>Requires grounding kit (MGB+MCA5) for outdoor installations. |
| | Communication range extension | Up to 2x the original range without antenna (single direction), plus 15 ft due to cable length.<br>Up to 200' in typical building construction or up to 2000' clear line of sight. | |
| | Location | Indoor/outdoor | |
| | Dimensions (HxWxD) | 9.1" x 8.4" x 1.2" | |
| | Weight: | 0.5 kg | |
| | Temperature range: | -40ºC to +65ºC (-40ºF to +150ºF) | |
| ANT400-REM-CEILING | Type | Omni-directional, unity gain | **Intended use:** an omni-directional antenna for use with indoor applications. To be mounted horizontally on ceiling.<br><br>**Included:** antenna, 15 ft coax cable, and coax whip. |
| | Communication range extension | 15 ft due to cable length.<br>Up to 200' in typical building construction or up to 1000' clear line of sight. | |
| | Location | Indoor/outdoor | |
| | Dimensions (HxWxD) | 9.1" x 8.4" x 1.2" | |
| | Weight: | 0.5 kg | |
| | Temperature range: | -40ºC to +65ºC (-40ºF to +150ºF) | |
| ANT400-REM-HALL | Type | Bi-directional, unity gain | **Intended use:** an bi-directional antenna for use with indoor applications. To be mounted on wall or ceiling.<br><br>**Included:** antenna, 15 ft coax cable, and coax whip. |
| | Communication range extension | 15 ft due to cable length.<br>Up to 200' in typical building construction or up to 1000' clear line of sight. | |
| | Location | Indoor | |
| | Dimensions (HxWxD) | 7.2" x 3.9" x 4.9" | |
| | Weight: | 0.24 kg | |
| | Temperature range: | -10ºC to + 65ºC (14º F to + 150º F) | |

## Accessories

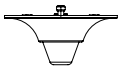
- **MGB+MCA5 grounding kit**
  - The National Electrical Code (NEC) requires that any outdoor antenna be properly grounded.
  - The Schlage remote antenna grounding kit is compatible with all models of remote antenna.

## Certification

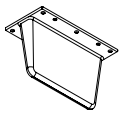
- FCC Part 15



**ANT400-REM-IO** [1]
**ANT400-REM-IO+6dB** [1]



**ANT400-REM-CEILING** [1]



**ANT400-REM-HALL** [1]

[1] These are the only remote antennas that have been approved by FCC for use with Allegion AD Series 900MHz communication modules. Any other antenna with an Allegion AD Series 900MHz communication modules would be in violation of FCC regulation.

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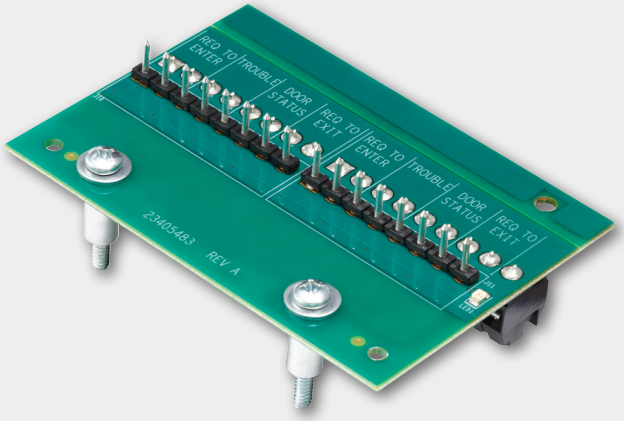
# RLBD

## AD Series Dry Contact Relay Board




## Overview

The Schlage AD Series Relay Board (RLBD) is an add on board used on the PIM400-TD2 and PIB300-2D for access control systems that require Dry Contact closures for supervised inputs.

The optional RLBD Relay Board removes the need for additional wired relays which can be cumbersome to source, complicated to install, and difficult to troubleshoot. The use of this board over custom wired solutions increases system reliability and reduces installation labor.

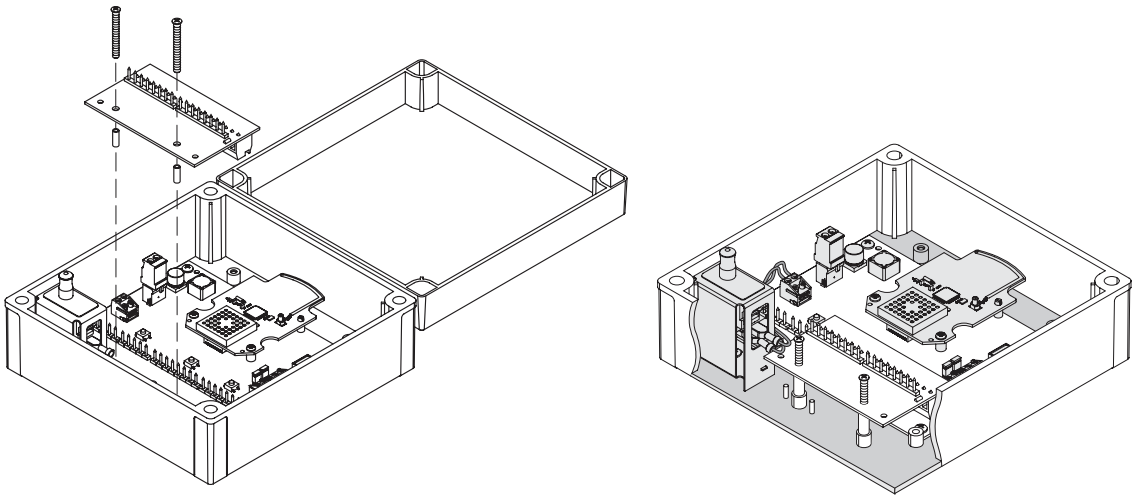
The RLBD is not required for integration of the PIM400-TD2 or the PIB3000-2D where the access control system can accept unsupervised inputs.

## Features and benefits

- Use with PIM400-TD2 or PIB300-2D
- Red LED light indicates power status
- Longer cycle lifetime than traditional mechanical-based relay solutions
- Access point status signals:
  - Request-to-enter
  - Request-to-exit
  - Door position/status
  - Tamper switch

## RLBD specifications

| | |
|---|---|
| Voltage maximum (contact-to-contact) | 28V |
| Maximum contact current | 110 mA |
| "Open" state resistance | 5 mega-ohms |
| "Closed" state resistance | 2 ohms |
| Dimensions (H x W x D) | 2.1" x 3.5" x 1.0" (5.33 cm x 8.89 cm x 2.54 cm) |
| Weight | 0.125 lb (56.7 g) |
| Operating temperature | -31ºF to 151ºF (-35ºC to 66ºC) |
| Operating humidity | 0-100% non-condensing |



Installation of RLBD in a PIM400-TD2

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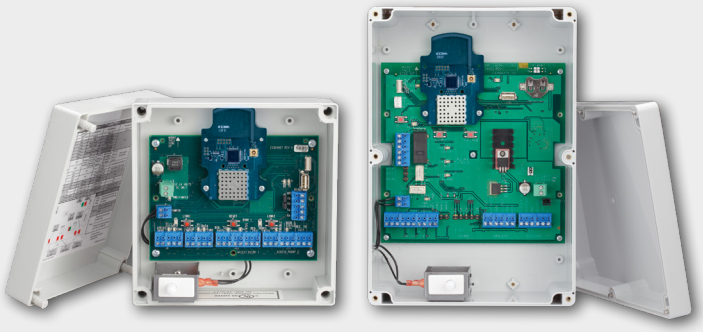
SCHLAGE

# REPTR400

## Wireless Repeater Kit



## Overview

The Schlage REPTR400 Wireless Repeater Kit is a simple, all-in-one package solution for access control applications that require an extended wireless range. It can be used for indoor or outdoor applications enabling the integration and management of an opening too distant or difficult to reach via hard wires. Ideal applications include remote doors, historic buildings, gates and elevators.

The Schlage REPTR400 includes an AD Series Panel Interface Module (PIM400-TD2) and an AD Series Wireless Reader Interface (WRI400). The PIM400-TD2 interfaces with most access control systems. Its function is to wirelessly communicate with either an AD-400 Series wireless lock on the door or a separate WRI400 wired to other electronic components around the door. The PIM400-TD2 receives data via one radio channel and communicates it to the kit's WRI400 unit to be transmitted via another channel. The additional distances covered can be up to 900 ft. within a normally constructed building or up to 2500 ft. where there is direct line of site.

To extend range further for areas such as a remote gate or for use with a portable reader, a remote antenna (sold separately) can also be employed. If your distance needs suggest the use of an antenna, contact Allegion technical service for assistance.

## Features and benefits

- Convenient kit includes the WRI400 and PIM400-TD2
- Extends the reach of your access control system to remote locations without running wires
- Up to two REPTR400s can be added in a series (use only one for applications involving mag stripe credentials)
- **WRI400:**
  - 2 form C relay outputs –strike and auxiliary
  - Each RF transmission is encrypted with AES-128 bit keys
  - Reader interfaces support– Wiegand (data1/data 0) up to 255 bits and magnetic stripe (Clock & Data) up to 255 bits
- **PIM400-TD2:**
  - 900 MHz spread spectrum RF technology for long range, reliable communications
  - Automatic linking to remote wireless access points with 10 channel frequencies to select from enables easy commissioning
  - AES-128 bit encrypted spread spectrum transmissions

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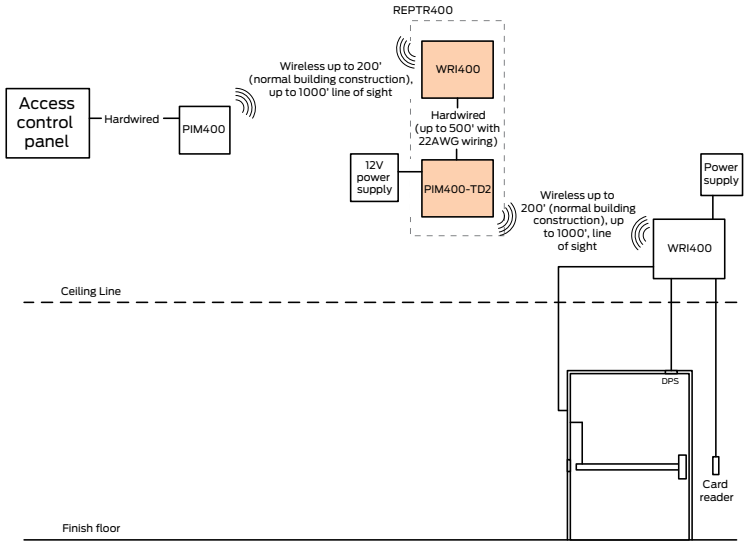
## PIM400-TD2 specifications

| | |
|---|---|
| Frequency range | 902-928 MHz |
| Modulation | 900 MHz spread spectrum, direct sequence, 10 channels |
| Communication | Up to 200 ft (normal building construction); up to 1000 ft, clear line of sight |
| Operating temperature | -31º to 151ºF (-35º to 66ºC) |
| Humidity | 0% to 100% condensing |
| Power supply | 12 VDC or 24VDC |
| Dimensions (H x W x D) | 7.1" x 7.1" x 3.0" (18.0 cm x 18.0 cm x 7.6 cm) |
| Weight | 1.25 lb (.56 kg) |
| Certifications | NEMA 1, 4, 4X, 6; UL 294; FCC Part 15; RoHS; Industry Canada (IC) |




Note: There are many other applications that use different wireless access points; this is one example of how a REPTR400 can be used.

## WRI400 specifications

| | | |
|---|---|---|
| Frequency range | | 902-928 MHz |
| Modulation | | 900 MHz spread spectrum, direct sequence, 10 channels |
| RF interference avoidance | | Optional dynamic channel switching |
| Transmission/encryption | | AES-128 bit key (optional) |
| Data rate | | RF: 40 kbps |
| Credential verification time | | < 1 second (WRI requires less than 100ms. Response time does not include latency time of ACP. Each REPTR400 Kit adds 250ms delay) |
| Communication range | | Up to 200 ft (61 m), normal building construction<br>Up to 1000 ft (305 m), clear line of sight (See ANT400-REM data sheet for increasing distance) |
| Power supply requirements | | 12 VDC or 24 VDC; 500 mA maximum current |
| Connector cable specifications | DC power input | 18AWG, 2 conductor (Belden 8760 or equivalent), up to 1000 ft (305 m) |
| | Credential readers (x2) | Data signals: 22AWG, 6 conductor (Alpha 1296C or equivalent) up to 500 feet (152 meters)<br>Reader tamper signals: 18AWG, twisted pair shielded (Belden 8760 or equivalent) up to 500 feet (152 meters) |
| | Strike/aux relay outputs | 18AWG, 2 conductor (Belden 8760 or equivalent), up to 2000 feet (610 meters) |
| | Request-to-enter and -exit inputs | 18AWG, 2 conductor (Belden 8760 or equivalent), up to 2000 feet (610 meters) |
| Relay output tolerances | Strike output relay | Form C relay; 6 amps at 24 VDC or 6 amps at 120 VAC or 3 amps at 240 VAC |
| | Auxiliary output relay | Form C relay; 2 amps at 24 VDC or 0.5 amps at 120 VAC |
| Operating temperature | | -31ºF (-35ºC) to 151ºF (66ºC) |
| Operating humidity | | 0 - 100% condensing |
| Dimensions (H x W x D) | | 10.43" x 7.28" x 3.79" (26.49 cm x 18.49 cm x 9.63 cm) |
| Certifications | | NEMA 1, 4, 4X, 6; UL 294; FCC Part 15; Industry Canada (IC); RoHS |
| Optional accessories | | 593P1-12 DC - power supply for Panel Interface Module (PIM) |

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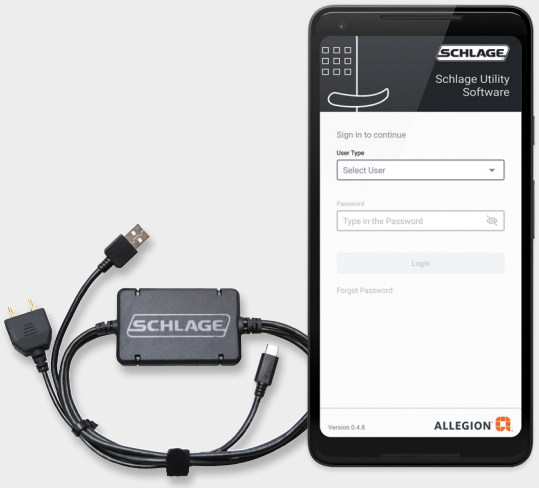
# Schlage Utility Software (SUS)

utilizing the SUS-A cable




## Overview

The Schlage Utility Software (SUS) mobile app for Android devices is designed specifically for use with the SUS-A cable to set up and act as the link between access control software and select Schlage® electronic locks and accessories. This new SUS mobile app and cable replaces the current SUS and HHD solution.

The SUS and SUS-A cable are used with networked and offline locks to initialize and configure devices, test operational status, perform ongoing system maintenance and update device firmware.

In addition, for offline devices, the SUS solution is utilized to transfer access control data from the Schlage Express access control software (such as authorized user lists) via the mobile device and cable to the locks or accessories. SUS is also utilized to download audit trail information from locks to the mobile device and then transfer that data to Schlage Express for analysis and storage.

The intuitive screen layout of the free SUS mobile app provides easy navigation during use. The SUS-A cable is an all-in-one solution with separate connectors – USB-A for our USB enabled devices and a 2-pin serial connection for our serial enabled devices – to connect the mobile device to the locks.

## Features and benefits

- Intuitive, free SUS mobile app for Android devices
- Single cable for Schlage AD and CO Series locks and legacy devices
- Facilitates initialization of locks and accessories
- Configures and tests devices
- Simplifies firmware updates
- Import/Export Device Configuration feature simplifies configuration process
- Ability to reclass Schlage AD Series locks
- Manager and Operator user modes

## Features and specifications

| | |
|---|---|
| **Initialize lock and accessories** | Yes |
| **Field configure devices** | ▪ Credential reader formats<br>▪ Lock function<br>▪ Unlock period<br>▪ Failure mode<br>▪ Audible alarm on/off |
| **Offline devices** | ▪ Manage up to 100 unique door files<br>▪ Retrieve audit trails from up to 100 devices |
| **Networked devices** | ▪ Communication settings<br>▪ Validate status monitor |
| **Service and diagnostics** | ▪ Battery status<br>▪ Validate hardware and software revision<br>▪ Troubleshooting status signals<br>▪ Firmware upgrades |

## Device compatibility

SUS mobile app and SUS-A cable are compatible with the following Schlage devices

- AD-400/401/402, AD-300/301/302, AD-200 locks, AD Series readers
- PIM400 (RSI and TD2), WPR400/401, PIB300, WRI400, CT5000 controller
- BE367/FE210 (SPED) locks
- AD-201, AD-250, CO-200, CO-220, CO-250 locks, CM, CL, KC2 locks (compatible later in 2021)

If you are unsure if your devices are compatible with the new SUS mobile app and SUS-A cable please contact technical support at 877-671-7011 (Option 2).

If you require SUS functionality prior to the new SUS solution being compatible with your devices, (such as some models of the CO and AD Series locks or legacy Schlage electronic locks), please contact your Allegion representative for options to obtain the legacy HHD solution.

## Android mobile device

Recommendations

- Android Pie 9.0 or newer (minimum SDK 28)
- For optimum performance, the SUS mobile app has been tested with flagship Android devices from major manufacturers including:
  - Google Pixel 3 or newer
  - Moto G6 or newer
  - Samsung S8 or newer
- Mobile phones are not available for purchase from Allegion
- Cellular plan is not required
- Apple devices are not compatible with the SUS and SUS-A cable solution

## Firmware requirements

- Device firmware needs to be at a minimum version to function correctly with the SUS mobile app and SUS-A cable
  - AD Series: AD.A.130
  - SPED: V1.30

## Ordering information

- 47282796 SUS A-KIT– USB and 2-pin Android cable
- SUS mobile app for compatible Android devices running Android Pie 9.0 or newer is available at no charge in the Google Play store – search for “Schlage Utility Software - SUS”

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# Standalone locking

This section of the Electronic Access Control catalog covers standalone locks, controllers and accessories including the AD Series, CO Series and CT5000.

## Overview

Standalone access control solutions provide added security, convenience and efficiency for openings that do not require real-time monitoring. They allow you to reduce rekeying costs by issuing electronic credentials which can easily be added or deleted at any time. Audit trails tell you who requested access and when. You can also save time and money by setting automatic lock and unlock schedules for specific time zones and holidays.

Schlage AD Series and CO Series are the first electronic locks to achieve UL 294 certification which is the standard for safety of access control units. Both models feature a robust integrated design which incorporates many of the components typically found around the door including the lockset, credential reader and door position switch. They also offer a choice of chassis, credential reader, lever and finish options to meet the needs of a variety of applications and facilities.

## The AD Series:

**Features**

**The AD Series is a flexible, adaptable and scalable solution that provides you with an extended breadth of options as well as a migration path to future technologies. It is ideal for applications with more advanced security needs.**

Two different classifications are offered in the AD Series for standalone applications. The AD-200 is a computer managed system where user access rights are stored in the lock. Modifications to user access privileges as well as audits are transferred between the access control software and the lock using the Schlage Utility Software (SUS) on either a compatible Android device or legacy handheld device (HHD).

The AD-250 is a computer managed system where user access rights are stored on magnetic stripe cards. The AD-250 is often used in campus-like environments with a large number of users and offline openings.

The AD Series offers keypad, magnetic stripe, smart and multi-technology (reads both 125 kHz proximity and 13.56 MHz smart) reader options. All AD Series card readers are available with dual authentication for added security (card + PIN).

**Benefits**

The AD Series can be customized to meet the specific needs of each opening in a facility with a wide variety of factory orderable and field configurable options. The innovative modular design of the AD Series allows you to upgrade from standalone to networked if your needs change in the future. The AD Series also allows you to upgrade credential readers, for example, from magnetic stripe to multi-technology.

Options[1]

The AD Series has several options to choose from including:

- **Class:** AD-200 & AD-250 (For AD-300 and AD-400 networked options, see the networked locking Introduction pages of this catalog)
- **Chassis:** Cylindrical, mortise, mortise deadbolt, exit trim
- **Function[1]:** Classroom/Storeroom, Office, Privacy, and Apartment
- **Readers[1]:** Keypad, magnetic stripe, smart and multi-technology readers (reads both 125 kHz proximity and 13.56 MHz smart). All card readers are available with + PIN option for added security.
- **Lever style:** Athens, Boardwalk, Broadway, Latitude, Longitude, Rhodes, Sparta, Tubular (tactile warning available)
- **Finishes:** 626 satin chrome, 605 bright brass, 606 satin brass, 612 satin bronze, 619 satin nickel, 625 bright chrome, 643e aged bronze, 626AM satin chrome with antimicrobial
- **Keyway/cylinders:** See lever and cylinder compatibility data sheet (010432)
- **Exit trim:** See AD Series exit trim compatibility data sheet (004382)

# The CO Series:

Features

The CO Series is a reliable, compatible and proven solution backed by extensive testing and certification and the strong mechanical heritage of Schlage. It is ideal for applications that desire a cost effective solution for basic security needs.

Four different classifications are offered in the CO Series for standalone applications. The CO-100 is a manually programmed keypad only lock which allows up to 500 unique PIN codes for user access. The CO-200 and CO-220 can be manually programmed or computer managed with user access rights stored in the lock. Modifications to user access privileges as well as audits are transferred between the access control software to the lock using the Schlage Utility Software (SUS) on either a compatible Android device or legacy handheld device (HHD). The CO-220 is unique because it allows for immediate local lockdown by simply pushing the button on the remote fob from anywhere in the classroom. An illuminated visual indicator located on the interior side of the lock provides instant verification that the door is secured from inside the room. The CO-250 is a computer managed system where user access rights are stored on magnetic stripe cards. The CO-250 is often used in campus-like environments with a large number of users and offline openings.

The CO Series offers keypad, magnetic stripe and proximity readers (125 kHz); CO Series readers are all available with dual authentication for added security (card + PIN). The CO Series is an excellent choice if the needs of the facility are not expected to change in the future.

Benefits

The CO Series provides the added security and convenience of electronic access control without the cost or complexity of a networked system. By providing electronic credentials you can minimize the number of mechanical keys issued which protects the integrity of key systems. Choose from basic PIN code access for a small number of users or a card based system to serve a larger population of users.

Options[1]

The CO Series has several options to choose from including:

- **Class:** CO-100, CO-200, CO-220, CO-250
- **Chassis:** Cylindrical, mortise, mortise deadbolt, exit trim
- **Function[1]:** Classroom/storeroom, office, and privacy
- **Readers[1]:** Keypad, magnetic stripe, proximity (125 kHz); all card readers are available with + PIN option for added security
- **Lever style:** Sparta, Rhodes, Athens, Tubular, Longitude, Latitude, Broadway, and Boardwalk (tactile warning options available)
- **Finishes:** 626 satin chrome, 605 bright brass, 606 satin brass, 612 satin bronze, 619 satin nickel, 625 bright chrome, 643e aged bronze, 626AM satin chrome with antimicrobial
- **Keyway/cylinders:** See lever and cylinder compatibility data sheet (010432)
- **Exit trim:** See CO Series exit trim compatibility data sheet (004183)

1 Some options are dependent upon choice of class and chassis; see price book for complete details.

| | CO-100 | CO-200/220 | CO-250 | AD-200 | AD-250 |
|---|---|---|---|---|---|
| **Device capacity** | | | | | |
| Number of users | 500 | 2000 [1] | Unlimited [1] | 5000 [1] | Unlimited [1] |
| Number of audits | N/A | 2000 [1] | 4000 [1] | 5000 [1] | 10000 [1] |
| **Reader options**<br>Consult with OEM access control system provider for credential format compatibility | | | | | |
| Keypad only | Yes | Yes | No | Yes | No |
| Magnetic stripe card | No | Yes | Yes | Yes | Yes |
| 125 kHz proximity card | No | Yes | No | Yes | No |
| Multi-technology - 125 kHz proximity and 13.56 MHz smart | No | No | No | Yes | No |
| Smart – iClass compatible | No | No | No | Yes | No |
| Card + PIN | No | Yes | Yes | Yes | Yes |
| **Status monitors** | | | | | |
| Request to exit | No | Yes | Yes | Yes [2] | Yes [2] |
| Door position switch | No | Yes | Yes | Yes | Yes |
| Mechanical key override (AKT) | Yes | Yes | Yes | Yes | Yes |
| Request to enter | No | No | No | No | No |
| Low battery status | Yes | Yes | Yes | Yes | Yes |
| Communication status | No | No | No | No | No |
| Remote lockdown /unlock | Unlock only | No | No | No | No |
| Deadbolt position | No | No | No | No | No |
| Interior push button | No | No | No | No | No |
| **Chassis options** | | | | | |
| Cylindrical | Yes | Yes | Yes | Yes | Yes |
| Mortise | Yes | Yes | Yes | Yes | Yes |
| Mortise deadbolt | No | Yes | Yes | Yes | Yes |
| Exit trim | Yes | Yes | Yes | Yes | Yes |
| **Functions**<br>Consult with OEM access control system provider for specific support | | | | | |
| Classroom/storeroom (70) | Yes | CO-200 only | Yes | Yes | Yes |
| Privacy (40) | Yes | CO-200 only | Yes | Yes | Yes |
| Office (50) | Yes | CO-200 only | Yes | Yes | Yes |
| Apartment (60) | No | No | No | No | Yes |
| Classroom security (75) | No | CO-220 only | No | No | No |

1 Depending on your access control software

2 Built in status signals available to enable migration to networked, not monitored in standalone application

## Accessories:

A variety of accessories are available for use with AD Series and CO Series standalone locks including:

- The Schlage Utility Software (SUS) on either a compatible Android device or legacy handheld device (HHD) provides an easy way to retrieve audits and transfer information between your access control software and electronic locks.
- The combo proximity keyfobs with iButton® option is available which allows you to manage proximity and iButton® technologies in the same facility.
- Decorative plates are available for retrofit applications where the new lock does not completely cover the existing door prep.

## The CT5000 offline controller:

### Features

The CT5000 offline single opening controller is also available for standalone applications. The CT5000 can support up to two separate Wiegand readers as well as interface with peripheral devices such as automatic operators, electric strikes, and electromagnetic locks.

### Benefits

The CT5000 offline single opening controller is an ideal solution for narrow stile store front and exit door applications. The CT5000 can operate in the same system as the AD Series and CO Series electronic locks. If networked functionality is required in the future, the CT5000 can be easily upgraded to a networked WRI400 wireless reader interface.

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# AD-200

## Standalone electronic lock

## Overview

AD Series electronic locks from Schlage are designed to be modular and provide more options to choose from, more functionality in the lock and more compatibility with existing systems. Its patent-pending modular design allows the lock to be customized to fit the needs of an application now, and can change to meet future needs without removing it from the door.

Factory orderable options include choices of credential readers, chassis type, locking functions, power options, lever styles and finishes. It also offers a wide selection of features that can be configured in the field to customize your openings.

The AD-200 is a simple, economical solution if no access control system currently exists in facility, or for openings that don't require the control of a networked solution. The AD-200 is easily upgradable to a networked lock if requirements change in the future.

On all AD Series standalone locks, Schlage has built in many of the incremental features needed in a networked system such as request-to-exit and -enter sensors, interior cover tamper guard, as well as the door position switch. This way, if the customer chooses to network this opening in the future, all the components will be there to make the transition an easy one.

## Features and benefits

- Security that's more intelligent and convenient than traditional mechanical locking devices
- Audit trail reports that allow you to track usage and events
- Update users and access rights at the lock using the keypad or handheld device
- The ability to upgrade to a networked solution without removing the lock from the door
- Available in cylindrical, mortise, mortise deadbolt and exit trim
- Compatible with major brands of master key systems and exit devices
- Hardwired remote push button release capability
- Programmable option for lighted occupancy indication[2]
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C, FCC Part 15, ADA, FL12400[1], FL1591[1], FL13013[1] and FL14482[1]

[1] Applies to cylindrical and mortise chassis only

[2] Available on privacy function locks manufactured after May 2019 with firmware version AD.A.126 or higher.

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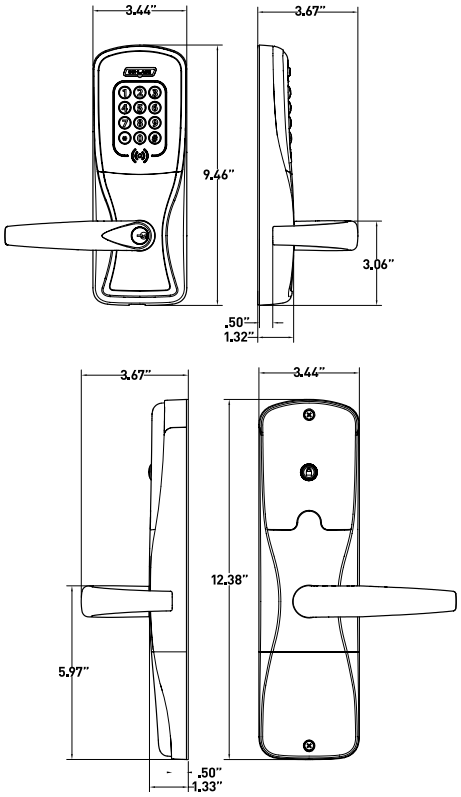



## AD-200 electronic lock specifications

| | |
|---|---|
| Users | Up to 5000 |
| Audits | Up to 5000 |
| Credential verification time | ≤ 1 second[1] |
| Visual/audible communications | Tri-colored LEDs and audible indicators (field configurable) |
| System interface | SUS mobile app on compatible Android device[3] |
| Power supply | 4AA, 8AA, 12 VDC or 24 VDC |
| Voltage range | 4 VDC to 26 VDC |
| Max current requirement | Up to 250 mA |
| Battery life | Up to 2 yrs with 4AA |
| Operating temperature - exterior | -31º to 151ºF (-35º to 66ºC) |
| Operating temperature - interior | 32º to 120ºF (0º to 49ºC) (battery) |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C, FCC Part 15, ADA |
| Accessories | SUS-A Cable used with SUS Android mobile app[3] |

### Functions

- Classroom/storeroom[2]
- Office[2]
- Privacy
- Apartment

### Standard status signals

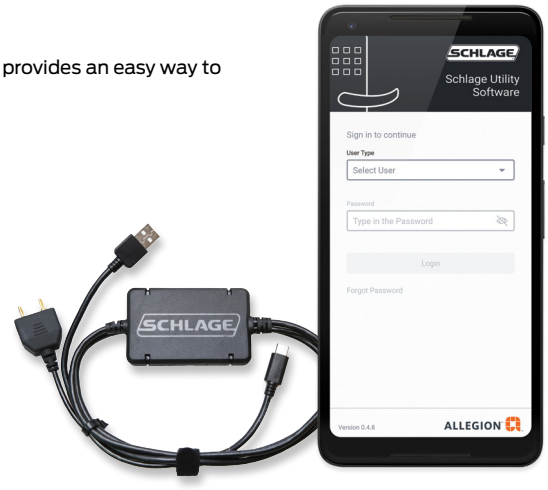
- Battery status - indicated by flashing LED light
- Lock/unlock status
- Mechanical key override
- Occupied - indicated by red LED light (privacy function only)

# Schlage Utility Software

The Schlage Utility Software (SUS) mobile app on compatible Android mobile devices provides an easy way to manage people, audits and locks for simple access control management.

### Schlage Utility Software

- Initialize lock and accessories
- Field configure devices
  - Credential reader formats
  - Lock function
  - Unlock period
  - Failure mode
  - Audible alarm on/off
- Service and diagnostics
  - Battery status
  - Validate hardware and software revision
  - Troubleshooting status signals
- New device template simplifies configuration




[1] Verification time is dependent on size of user base
[2] Classroom/storeroom and office function not available with mortise deadbolt option.
[3] Also compatible with legacy Handheld Device (HHD)

## Mechanical specifications

| Chassis | Cylindrical | Mortise | Exit trim |
|---|---|---|---|
| Handing | Handed to order, field reversible | | |
| ANSI standard (Meets or exceeds) | A156.25<br>A156.2 Series 4000<br>Grade 1 | A156.25<br>A156.13 Series 1000<br>Grade 1 | A156.25<br>A156.3 |
| Door thickness | 1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments) | | |
| Backset | Standard: 2 3/4"<br>Optional: 2 3/8", 3 3/4", 5" | 2 3/4" only | Defined by exit device |
| Latch bolt | Standard: 1/2" throw<br>Optional: 3/4" throw | Standard: 3/4" throw<br>Optional: 1" throw on mortise deadbolt | Provided by exit device |
| Levers | Pressure cast zinc, plated | | |
| Strike | Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8"<br>Optional: Additional configurations available please see price book | | Provided by exit device |
| Cylinder and keys | Schlage 6-pin Everest 29 S123 keyway Conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432) | | |

## Multi-technology reader specification

| | |
|---|---|
| Credential technologies | Proximity (125 kHz) and Smart (13.56 MHz) |
| Standards | ISO standard 15693 and ISO 14443 |
| Maximum read range | Up to 1.25" on 125 kHz proximity, up to 0.75" on 13.56 MHz smart card |
| Proximity credential compatibility | **Compatibility:** Schlage® ISONAS™, HID® GE/CASI ProxLite® AWID® and LenelProx®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, PVC adhesive disk |
| Smart credential compatibility | **Secure sector compatibility:** Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire® EV1 and EV2 with PACSA, PIV and PIV-I[3,4]<br>**CSN only compatibility:** DESFire, HID iClass,® Inside Contactless Pico Tag,® MIFARE, MIFARE DESFire EV1 and EV2, ST Microelectronics,® Texas Instruments Tag-It,® Phillips I-Code®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, PVC adhesive patch |
| Certifications/standards | FCC, UL 294 Listed, ISO standard 15693, and ISO standard 14443 |
| Style/layout | Option for 12 button, 3x4 matrix backlit keypad |

[1] Request-to-exit switch optional for future network migration

[2] Narrow design and reversible rim exits not compatible

[3] 75 bit output format default. Configurable to other output formats. Check with access control provider for specific support

[4] Smart card functionality dependant on access control software

### AD Series exit trim

Installed with a universal mounting plate, the AD Series exit trim is compatible with the following exit devices:

- Von Duprin 98/99 & 98/99XP[1] Rim, surface vertical rod, mortise. Concealed vertical cable and concealed vertical rod on metal doors only.
- Von Duprin 22/22F[1] Rim, surface vertical rod
- Falcon 25[1] - Rim
- Sargent® 80[2] Series - Rim
- Precision™ 21 Rim 2100 converts to 21 with Precision's BP21 kit
- Corbin Russwin® 5000 Series - Rim
- Yale® 7000 - Rim
- Dorma® 9300 - Rim

## Benefits of AD Series multi-technology readers:

- Reads multiple brands of both proximity (125 kHz) and smart (13.56 MHz) technologies with single reader
- Allows facility to migrate to more secure credential technologies over time and as budgets permit

## Additional readers

### Smart – iClass compatible

- Smart card reader only
- Reads secure sector of HID iClass, iClass SE, iClass SEOS, iClass Standard Key, and iClass Elite Key; Schlage MIFARE Classic, MIFARE Plus, and MIFARE DESFire EV1 and EV2

### Magnetic stripe

- Available with choice of insertion or swipe style readers
- Triple track reader (1, 2 or 3), field configurable
- ABA, ISO76XX standard

### Keypad

- Backlit keypad
- 12 button, 3x4 matrix

## Available AD Series reader modules

**Multi-technology**
- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)

**Multi-technology**
- Proximity
- Smart card

**Smart – iClass compatible**
- Smart card

KEYPAD

**Smart – iClass compatible**
- Smart card

**Magnetic stripe (insertion)**

KEYPAD

**Magnetic stripe (insertion)**

**Magnetic stripe (swipe)**

KEYPAD

**Magnetic stripe (swipe)**

**Keypad**

# Ordering information

Available through one of our GSA schedule 84 approved distributions; BAA options available

AD-200-CY-70-MG-SPA-626-P6-S123-RH-4B-13-049-10-025-1 3/4

| Series | Class | Chassis | Function | Reader | Lever style | Finish | Lever cylinder | Keying type | Handing | Battery | Backset and latch | Strike | Door thickness |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

**Selections correspond with the numbers above**

Standard options are indicated in bold. See price book for specific configuration options.

| 3 | Chassis |
|---|---|
| CY | Cylindrical |
| MS | Mortise |
| MD | Mortise deadbolt |
| 993R | Exit trim – Rim/CVC/CVR |
| 993S | Exit trim – SVR |
| 993M | Exit trim – mortise |
| 993DT | Non-functioning dummy trim for exit |

| 4 | Function |
|---|---|
| 70 | Classroom/storeroom |
| 50 | Office |
| 40 | Privacy |
| 60 | Apartment |

| 5 | Reader |
|---|---|
| **KP** | **Keypad** |
| MG | Magnetic stripe (insertion) |
| MGK | Magnetic stripe + keypad (insertion) |
| MS | Magnetic stripe (swipe) |
| MSK | Magnetic stripe + keypad (swipe) |
| MT | Multi-technology (125kHz and 13.56 MHz) |
| MTK | Multi-technology + keypad (125kHz and 13.56 MHz) |
| Si | Smart - iClass compatible |
| SiK | Smart - iClass compatible + keypad |
| DT | Dummy trim |

| 6 | Lever |
|---|---|
| ATH | Athens |
| BRK | Boardwalk |
| BRW | Broadway |
| LAT | Latitude |
| LON | Longitude |
| RHO | Rhodes |
| SPA | Sparta |
| TLR | Tubular |

Available with knurled surface

| 7 | Finish |
|---|---|
| **626** | **Satin chrome** |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

| 8 | Lever cylinder type |
|---|---|
| **P6** | **Schlage 6-pin Conventional key-in-lever cylinder** |

See price book for other SFIC, FSIC and less cylinder options available. Compatible with Schlage, Sargent, Corbin, Medeco and Yale.

| 9 | Keyway type |
|---|---|
| **S123** | **Everest 29** |

See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keying

| 10 | Handing |
|---|---|
| **RH** | **Right handed** |
| LH | Left handed |

Field reversible

| 11 | Battery |
|---|---|
| **4B** | **4AA** |
| 8B | 8AA |

| 12 | Backset and latch or armor front |
|---|---|
| **Cylindrical** | |
| **13-049** | **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"** |
| **Mortise** | |
| **09-663** | **Armor front, 1 1/4" wide, square corner** |

See price book for mortise deadbolt and other backset and latch options or armor front options

| 13 | Strike |
|---|---|
| **Cylindrical** | |
| **10-025** | **1 3/16" lip, ANSI, no box, 1 1/4" x 4 7/8"** |
| **Mortise** | |
| **10-072** | **1 3/16" lip, 1 1/4" x 4 7/8" square corner, box** |

See price book for other available strikes

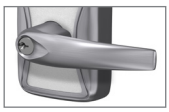
| 14 | Door thickness |
|---|---|
| **1 3/4"** | |

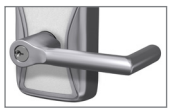
Other thicknesses available between 1 3/8" and 2 3/4"

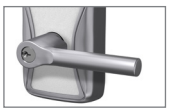
See price book for detail

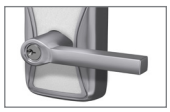
## Lever styles

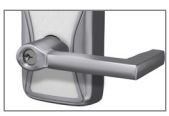
Conventional cylinders shown, SFIC and FSIC also available.


Athens

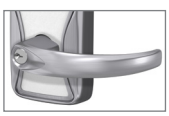

Boardwalk

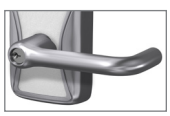

Broadway


Latitude


Longitude

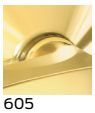
Rhodes

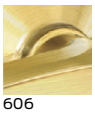

Sparta

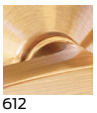

Tubular

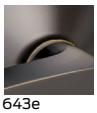
## Finishes

Warm tone finishes

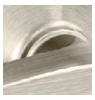

605
Bright brass


606
Satin brass


612
Satin bronze


643e
Aged bronze

Cool tone finishes


619
Satin nickel

625
Bright chrome

626
Satin chrome

626AM
Satin chrome with antimicrobial

## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

KRYPTONITE ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN

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www.allegion.com/us

ALLEGION

SCHLAGE

# AD-201

## FIPS 201-1 compliant standalone electronic lock with multi-technology + keypad reader

## Overview

The AD-201 is a simple and economical standalone solution for applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. The solution consists of the AD-201 integrated electronic lock with multi-technology + keypad (FMK) reader module, the handheld programming device (HHD) and the MT20 enrollment reader.

The innovative modular design of the AD-201 allows reader modules and communication modules to easily be upgraded. As a result, the AD-201 standalone lock can become an AD-401 networked wireless locks in minutes, without even taking it off the door.

The FMK reader module comes standard with the AD-201 lock and also can be ordered separately for field upgrades. It is for use with PIV and PIV-I credentials. The FMK is a multi-technology reader that supports 125 kHz proximity and 13.56 MHz smart cards.

Schlage Express offline access control software is used in conjunction with the AD-201 to manage access points, users and schedules. Reporting capability is available to show audit trails retrieved, access privileges granted, and time functions established by either user or door.

The MT-20 is an enrollment reader is designed to simplify the credential enrollment process. You can easily enroll 75-bit and 200-bit PIV, PIV-I or other smart card into Schlage Express using the MT-20 connected to your computer's USB port.

The handheld device is the link between Schlage Express software and the AD-201 lock. It consolidates and simplifies programming and managing your access control system. It is used to initialize, configure and test product operation as well as to transfer information between the lock and the software.

## Features and benefits

**AD-201 FIPS 201 lock**

- FIPS 201 compliant multi-technology reader for use with PIV and PIV-I credentials
- Upgradable to an AD-401 FIPS 201-1 compliant wireless lock
- Available in cylindrical, mortise, mortise deadbolt and exit trim
- UL 294 listed, ANSI/BHMA A156.25 and ANSI/BHMA Grade 1 certified

**Schlage Express™ offline software**

- Offline software used to manage AD-201 locks
- Supports up to 2000 users/audits with 50 locks or 1000 users/audits with 100 locks
- Supports up to 8 time zone and up to 16 holidays and auto unlocks per system

**MT-20 enrollment reader**

- USB reader makes it easy to enroll credentials in Schlage Express™
- Recognizes Schlage smart credentials (MIFARE Classic®, MIFARE® DESFire® EV1 and EV2)

**Handheld programming device**

- Allows you to initialize, configure and test AD-201 locks
- Used to transfer user rights from Schlage Express to AD-201
- Transfers audits trails from AD-201 to Schlage Express

## AD-201 electronic lock specifications

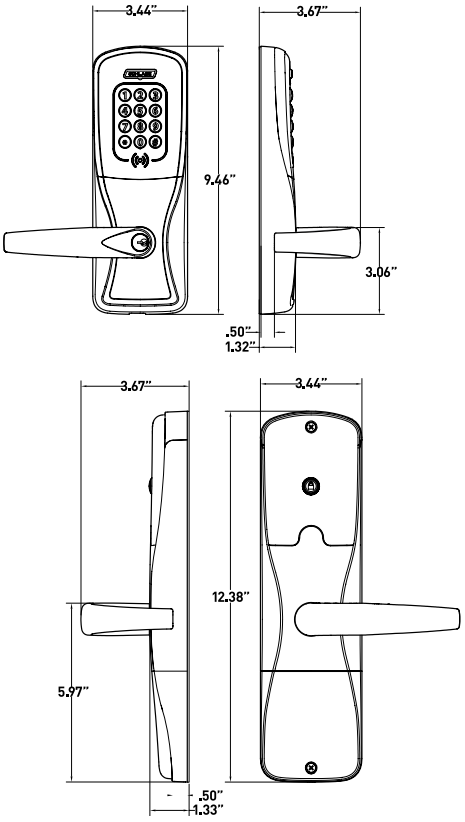
| | |
|---|---|
| Credential verification time | ≤ 1 second[1] |
| Visual/audible communications | Tri-colored LEDs and audible indicators (field configurable) |
| System interface | Handheld Device (HHD) or SUS-A Cable used with SUS Android mobile app (available in 2021) |
| Power supply | 4AA, 8AA, 12 VDC or 24 VDC |
| Voltage range | 4 VDC to 26 VDC |
| Max current requirement | Up to 250 mA |
| Battery life | Up to 2 yrs with 4AA |
| Operating temperature - exterior | -31º to 151ºF (-35º to 66ºC) |
| Operating temperature - interior | 32º to 120ºF (0º to 49ºC) (battery) |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C, FCC Part 15, ADA |
| Accessories | Handheld Device (HHD) or SUS-A Cable used with SUS Android mobile app (available in 2021) |

## Mechanical specifications

| Chassis | Cylindrical | Mortise | Exit trim |
|---|---|---|---|
| Handing | Handed to order, field reversible | | |
| ANSI standard (Meets or exceeds) | A156.25<br>A156.2 Series 4000<br>Grade 1 | A156.25<br>A156.13 Series 1000<br>Grade 1 | A156.25<br>A156.3 |
| Door thickness | 1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments) | | |
| Backset | Standard: 2 3/4"<br>Optional: 2 3/8", 3 3/4", 5" | 2 3/4" only | Defined by exit device |
| Latch bolt | Standard: 1/2" throw<br>Optional: 3/4" throw | Standard: 3/4" throw<br>Optional: 1" throw on mortise deadbolt | Provided by exit device |
| Levers | Pressure cast zinc, plated | Steel, plated | Steel, plated |
| Strike | Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8"<br>Optional: Additional configurations available please see price book | | Provided by exit device |
| Cylinder and keys | Schlage 6-pin Everest 29 S123 keyway cylinder with two patented keys standard<br>Additional options available including Standard, SFIC, FSIC and competitor brands | | |

## Multi-technology reader specification

| | |
|---|---|
| Credential technologies | Proximity (125 kHz) and Smart (13.56 MHz) |
| Standards | ISO standard 15693 and ISO 14443 |
| Maximum read range | Up to 1.25" on 125 kHz proximity, up to 0.75" on 13.56 MHz smart card |
| Proximity credential compatibility | **Compatibility:** Schlage® ISONAS™, HID® GE/CASI ProxLite® AWID® and LenelProx®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, PVC adhesive disk |
| Smart credential compatibility | **Secure sector compatibility:** Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE® DESFire® EV1 and EV2 with PACSA, PIV and PIV-I[2]<br>**CSN only compatibility:** DESFire, HID iClass®, Inside Contactless Pico Tag®, MIFARE, MIFARE DESFire EV1 and EV2, ST Microelectronics®, Texas Instruments Tag-It®, Phillips I-Code®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, PVC adhesive patch |
| Certifications/standards | FCC, UL 294 Listed, ISO standard 15693, ISO standard 14443 and FIPS 201-1 |
| Style/layout | Option for 12 button, 3x4 matrix backlit keypad |




## AD Series FMK reader modules

**FIPS 201-1 compliant multi-technology**

- FMK reader required for FIPS 201-1 compliant multi technology and keypad reader supporting both proximity and smart cards

+ KEYPAD

[1] Verification time is dependent on size of user base

[2] The AD Series FIPS 201-1 compliant option can be used in applications which require approval by the U.S. Government under HSPD-12 for FIPS 201-1

## Schlage Express specifications

| | |
|---|---|
| Hardware | Intel Pentium II processor (Pentium III or IV recommended), CD-ROM, mouse or compatible pointing device, VGA or Super VGA monitor, keyboard |
| Hard disk space | 250 MB for software; will require additional space for stored data |
| Memory | 256 MB RAM minimum or the memory required for the operating system, whichever is greater |
| Operating system | Microsoft Windows XP, Windows 7 and Windows 8 |

Reports with the built-in viewer Internet Explorer 6 or higher must be installed.

## Schlage Express AD-201 specifications

| | |
|---|---|
| Users/audits | ▪ 2,000 Users/audits with 50 AD-201 locks/devices<br>▪ 1,000 Users/audits with 100 AD-201 locks/devices |
| User time zones | Limits the hours and days a user can access up to 8 assigned points |
| Holidays | Suspends normal operations for user defined periods per door during up to 16 non-normal days |
| PIN codes | ▪ Supports up to 6 digit PIN codes<br>▪ Duplicate PIN notification feature |
| Auto unlock schedules | Allows weekly repeating for automatic locking and unlocking of up to 16 defined |

## AD-201 standalone system

## Schlage Utility Software

The Schlage Utility Software (SUS) on the Handheld Device (HHD) or compatible Android mobile devices (available in 2021) provides an easy way to manage people, audits and locks for simple access control management.

### Schlage Utility Software

- Initialize lock and accessories
- Field configure devices
  - Credential reader formats
  - Lock function
  - Unlock period
  - Failure mode
  - Audible alarm on/off
- Service and diagnostics
  - Battery status
  - Validate hardware and software revision
  - Troubleshooting status signals
- New device template simplifies configuration

HHD is also compatible with CM, CL, VIP, WA and KC2 Series locks in a serial cable connection.

# Ordering information

Available through one of our GSA schedule 84 approved distributions; BAA options available

AD - 201 - CY - 70 - FMK - SPA - 626 - P6 - S123 - RH - 4B - 13-049 - 10-025 - 1 3/4

| Series | Class | Chassis | Function | Reader | Lever style | Finish | Lever cylinder | Keying type | Handing | Battery | Backset and latch | Strike | Door thickness |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

**Selections correspond with the numbers above**

Standards options are indicated in bold. See price book for specific configuration options.

### 3 Chassis

| | |
|---|---|
| CY | Cylindrical |
| MS | Mortise |
| MD | Mortise deadbolt |
| 993R | Exit trim – Rim/CVC/CVR |
| 993S | Exit trim – SVR |
| 993M | Exit trim – mortise |
| 993DT | Non-functioning dummy trim for exit |

### 4 Function

| | |
|---|---|
| 70 | Classroom/storeroom |
| 50 | Office |
| 40 | Privacy |
| 60 | Apartment |

### 5 Reader

| | |
|---|---|
| FMK | FIPS 201-1 compliant multi-technology + keypad (125 kHz and 13.56 MHz) |

### 6 Lever

| | |
|---|---|
| SPA | Sparta |
| RHO | Rhodes |
| ATH | Athens |
| TLR | Tubular |

Available with knurled surface

### 7 Finish

| | |
|---|---|
| 626 | Satin chrome |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

### 8 Lever cylinder type

| | |
|---|---|
| P6 | Schlage 6-pin Conventional key-in lever cylinder |

See price book for other SFIC, FSIC and Less Cores options available. Compatible with Schlage, Sargent, Corbin, Medeco and Yale.

### 9 Keyway type

| | |
|---|---|
| **S123** | **Everest 29** |

See price book for other available keyway options including master keying

### 10 Handling

| | |
|---|---|
| **RH** | **Right handed** |
| LH | Left handed |

Field reversible

### 11 Battery

| | |
|---|---|
| **4B** | **4AA** |
| 8B | 8AA |

### 12 Backset and latch or armor front

**Cylindrical**

**13-247** **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"**

**Mortise**

**09-663** **Armor front, 1 1/4" wide, square corner**

See price book for mortise deadbolt and other backset and latch options or armor front options

### 13 Strike

**Cylindrical**

**10-025** **1 3/16" lip, ANSI, no box, 1 1/4" x 4 7/8"**

**Mortise**

**10-072** **1 3/16" lip, 1 1/4" x 4 7/8" square corner, box**

See price book for other available strikes

### 14 Door thickness

**1 3/4"**

Other thicknesses available between 1 3/8" and 2 3/4"

See price book for detail

## Lever styles

Standard cylinders shown, SFIC and FSIC also available.

Sparta

Rhodes

Athens

Tubular

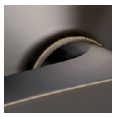
## Finishes

Warm tone finishesCool tone finishes

605 Bright brass

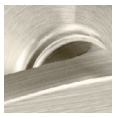
606 Satin brass

612 Satin bronze



643e Aged bronze

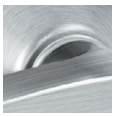
Cool tone finishesCool tone finishes



619 Satin nickel

625 Bright chrome

626 Satin chrome



626AM Satin chrome with antimicrobial

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## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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SCHLAGE®

# AD-250

## Standalone electronic lock

## Overview

AD Series electronic locks from Schlage are designed to be modular and provide more options to choose from, more functionality in the lock and more compatibility with existing systems. Its patent-pending modular design allows the lock to be customized to fit the needs of an application now, and can change to meet future needs without removing it from the door.

Factory orderable options include choices of magnetic stripe credential readers, chassis type, locking functions, power options, lever styles and finishes. It also offers a wide selection of features that can be configured in the field to customize your openings.

The AD-250 is a unique solution in which the credential, not the lock, carries access rights on a magnetic stripe card. This allows dynamic rights management on the card without reprogramming each lock in the facility. And the lock still maintains an audit trail of events at the door. This makes it a smart and economical solution for campus-like environments with a large number of users and offline openings.

On all AD Series standalone locks, Schlage has built in many of the incremental features needed in a networked system such as request-to-exit and request-to-enter sensors, interior cover tamper guard, as well as the door position switch. This way, if the customer chooses to network this opening in the future, all the components will be there to make the transition an easy one.

## Features and benefits

- Security that's more intelligent and convenient than traditional mechanical locking devices
- Audit trail reports that allow you to track usage
- Add users and access rights using credentials instead of having to visit each lock
- The ability to upgrade to a networked solution without removing the lock from the door
- Available in cylindrical, mortise, mortise deadbolt and exit trim
- Compatible with major brands of master key systems and exit devices
- Now available with magnetic swipe reader
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C, FCC Part 15, ADA, FL12400[1], FL1591[1], FL13013[1] and FL14482[1]

[1] Applies to cylindrical and mortise chassis only

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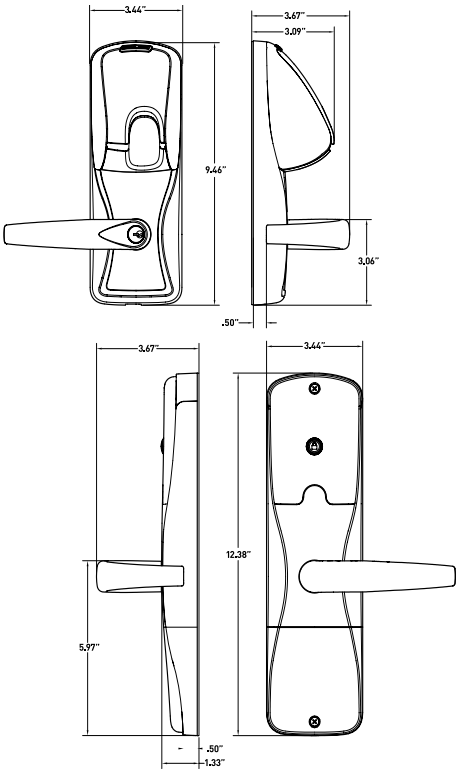



## AD-250 electronic lock specifications

| | |
|---|---|
| Users | Unlimited, dependent on software |
| Audits | Up to 10,000 |
| Credential verification time | ≤ 1 second |
| Visual/audible communications | Tri-colored LEDs and audible indicators (field configurable) |
| System interface | Handheld Device (HHD) or SUS-A Cable used with SUS Android mobile app (available in 2021) |
| Power supply | 4AA, 8AA, 12 VDC or 24 VDC |
| Voltage range | 4 VDC to 26 VDC |
| Max current requirement | Up to 250 mA |
| Battery life | Up to 2 yrs with 4AA |
| Operating temperature - exterior | -31º to 151ºF (-35º to 66ºC) |
| Operating temperature - interior | 32º to 120ºF (0º to 49ºC) (battery) |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, U L10C, FCC Part 15, ADA |
| Accessories | Handheld Device (HHD), SUS-A Cable used with SUS Android mobile app (available in 2021), magnetic stripe credential encoder (CL-Encoder 2) |

### Functions

- Classroom/storeroom[1]
- Office[1]
- Privacy
- Apartment

### Standard status signals

- Lock/unlock status
- Mechanical key override
- Battery status

# Schlage Utility Software

The Schlage Utility Software (SUS) on the Handheld Device (HHD) or compatible Android mobile devices (available in 2021) provides an easy way to manage people, audits and locks for simple access control management.

### Schlage Utility Software

- Initialize lock and accessories
- Field configure devices
  - Credential reader formats
  - Lock function
  - Unlock period
  - Failure mode
  - Audible alarm on/off
- Service and diagnostics
  - Battery status
  - Validate hardware and software revision
  - Troubleshooting status signals
- New device template simplifies configuration

For replacement HHD devices with a serial cable connection, please contact Technical Support at 877.671.7011.

[1] Classroom/storeroom and office function not available with mortise deadbolt option. To ensure safety, all functions always allow for free egress.

## Mechanical specifications

| Chassis | Cylindrical | Mortise | Exit trim |
|---|---|---|---|
| Handing | Handed to order, field reversible | | |
| ANSI standard (Meets or exceeds) | A156.25<br>A156.2 Series 4000<br>Grade 1 | A156.25<br>A156.13 Series 1000<br>Grade 1 | A156.25<br>A156.3 |
| Door thickness | 1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments) | | |
| Backset | Standard: 2 3/4"<br>Optional: 2 3/8", 3 3/4", 5" | 2 3/4" only | Defined by exit device |
| Latch bolt | Standard: 1/2" throw<br>Optional: 3/4" throw | Standard: 3/4" throw<br>Optional: 1" throw on mortise deadbolt | Provided by exit device |
| Levers | Pressure cast zinc, plated | | |
| Strike | Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8"<br>Optional: Additional configurations available please see price book | | Provided by exit device |
| Cylinder and keys | Schlage 6-pin Everest 29 S123 keyway Conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432) | | |

### AD Series exit trim

Installed with a universal mounting plate, the AD Series exit trim is compatible with the following exit devices:

- Von Duprin 98/99 & 98/99XP[1]
  Rim, surface vertical rod, mortise. Concealed vertical cable and concealed vertical rod on metal doors only.
- Von Duprin 22/22F[1]
  Rim, surface vertical rod
- Falcon 25[1] - Rim
- Sargent® 80[2] Series - Rim
- Precision™ 21 Rim
  2100 converts to 21 with Precision's BP21 kit
- Corbin Russwin® 5000 Series - Rim
- Yale® 7000 - Rim
- Dorma® 9300 - Rim

## Available AD-250 reader options

**Magnetic stripe (swipe)**

KEYPAD

- Triple track reader (1, 2 or 3), field configurable
- ABA, ISO76XX Standard
- Reader can be cleaned without removing lock from door
- 12 button, 3x4 matrix backlit keypad

**Magnetic stripe (swipe)**

- Triple track reader (1, 2 or 3), field configurable
- ABA, ISO76XX Standard
- Reader can be cleaned without removing lock from door
- 12 button, 3x4 matrix backlit keypad

**Magnetic stripe (insertion)**

KEYPAD

- Triple track reader (1, 2 or 3), field configurable
- ABA, ISO76XX standard

**Magnetic stripe (insertion)**

- Triple track reader (1, 2 or 3), field configurable
- ABA, ISO76XX standard

[1] Request-to-exit switch optional for future network migration

[2] Narrow design and reversible rim exits not compatible

# Ordering information

Available through one of our GSA schedule 84 approved distributions; BAA options available

AD-250-CY-70-MG-SPA-626-P6-S123-RH-4B-13-049-10-025-1 3/4

| Series | Class | Chassis | Function | Reader | Lever style | Finish | Lever cylinder | Keying type | Handing | Battery | Backset and latch | Strike | Door thickness |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

**Selections correspond with the numbers above**

Standard options are indicated in bold. See price book for specific configuration options.

## 3 Chassis

| | |
|---|---|
| CY | Cylindrical |
| MS | Mortise |
| MD | Mortise deadbolt |
| 993R | Exit trim – Rim/CVC/CVR |
| 993S | Exit trim – SVR |
| 993M | Exit trim – mortise |
| 993DT | Non-functioning dummy trim for exit |

## 4 Function

| | |
|---|---|
| 70 | Classroom/storeroom |
| 50 | Office |
| 40 | Privacy |
| 60 | Apartment |

## 5 Reader

| | |
|---|---|
| MG | Magnetic stripe (insertion) |
| MGK | Magnetic stripe + keypad (insertion) |
| **MS** | **Magnetic stripe (swipe)** |
| MSK | Magnetic stripe + keypad (swipe) |
| DT | Dummy trim |

## 6 Lever

| | |
|---|---|
| ATH | Athens |
| BRK | Boardwalk |
| BRW | Broadway |
| LAT | Latitude |
| LON | Longitude |
| RHO | Rhodes |
| SPA | Sparta |
| TLR | Tubular |

Available with tactile warning options

## 7 Finish

| | |
|---|---|
| **626** | **Satin chrome** |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

## 8 Lever cylinder type

**P6** **Schlage 6-pin Conventional key-in-lever cylinder**

See price book for other SFIC, FSIC and less cylinder options available. Compatible with Schlage, Sargent, Corbin, Medeco and Yale.

## 9 Keyway type

**S123** **Everest 29**

See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keying

## 10 Handing

| | |
|---|---|
| **RH** | **Right handed** |
| LH | Left handed |

Field reversible

## 11 Battery

| | |
|---|---|
| **4B** | **4AA** |
| 8B | 8AA |

## 12 Backset and latch or armor front

**Cylindrical**

**13-049** **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"**

**Mortise**

**09-663** **Armor front, 1 1/4" wide, square corner**

See price book for mortise deadbolt and other backset and latch options or armor front options

## 13 Strike

**Cylindrical**

**10-025** **1 3/16" lip, ANSI, no box, 1 1/4" x 4 7/8"**

**Mortise**

**10-072** **1 3/16" lip, 1 1/4" x 4 7/8" square corner, box**

See price book for other available strikes

## 14 Door thickness

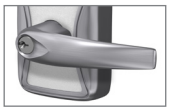
**1 3/4"**

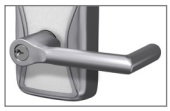
Other thicknesses available between 1 3/8" and 2 3/4"

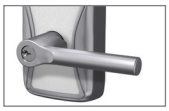
See price book for detail

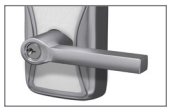
# Lever styles

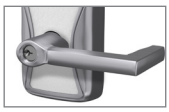
Conventional cylinders shown, SFIC and FSIC also available.


Athens

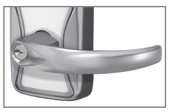

Boardwalk

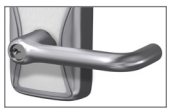

Broadway


Latitude


Longitude

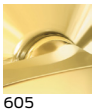
Rhodes

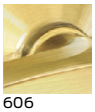

Sparta

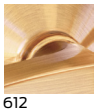

Tubular

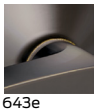
# Finishes

Warm tone finishes


605 Bright brass


606 Satin brass


612 Satin bronze


643e Aged bronze

Cool tone finishes

619 Satin nickel

625 Bright chrome

626 Satin chrome

626AM Satin chrome with antimicrobial

## About Allegion

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# AD Series

## Exit trim compatibility

## Overview

The AD Series electronic lock is available in 993 Exit Trim for use on openings that require exit devices for either retrofit or new construction applications. Offline and networked solutions are available. The 993 Exit Trim was designed to suite with AD Series cylindrical and mortise locksets to ensure that the facility remains aesthetically consistent. The AD Series 993 Exit Trim utilizes universal hardware to simplify installation of offline trim to a variety of exit devices, including rim style from Von Duprin, Falcon, Sargent®, Precision™ Corbin Russwin, Dorma®, and Yale®.

Available Exit Trim styles:

- 993R – Rim, concealed vertical cable or concealed vertical rod (CVC and CVR for metal doors only)
- 993S – Surface vertical rod
- 993M – Mortise

## Features and benefits

- Multiple credential reader options
- Offline and networked communication options
- A wide variety of finishes and lever styles
- Power options that include hardwired (12 VDC or 24 VDC) or batteries (4AA or 8AA)
- Compatible with all Schlage Conventional, FSIC and SFIC formatted cylinders including many competitive OEM cylinders such as, Sargent®, Corbin Russwin, Medeco® and Yale®

### Compatibility

| Devices | AD-200/250 | AD-300/AD-302[3] AD-400/AD-402[3] |
|---|---|---|
| Von Duprin 98/99 and 98/99XP rim/SVR/ CVR[1]/CVC[1]/mortise | X | X |
| Von Duprin 22/22F rim/SVR | X | X |
| Falcon 25 rim | X | X |
| Sargent® 80[2] rim | X | |
| Precision™ 21 rim (2100 converts to 21 with Precision's BP21 kit) | X | |
| Yale® 7000 rim | X | |
| Corbin Russwin 5000 rim | X | |
| Dorma® 9300 rim | X | |

1 For metal doors only

2 Narrow design and reversible rim exits not compatible.

3 The proper low current request to exit switch (RX-LC) is required for AD-300/302 and AD-400/402. Part numbers for request to exit switch:

- Von Duprin: 050281
- Falcon: 650359

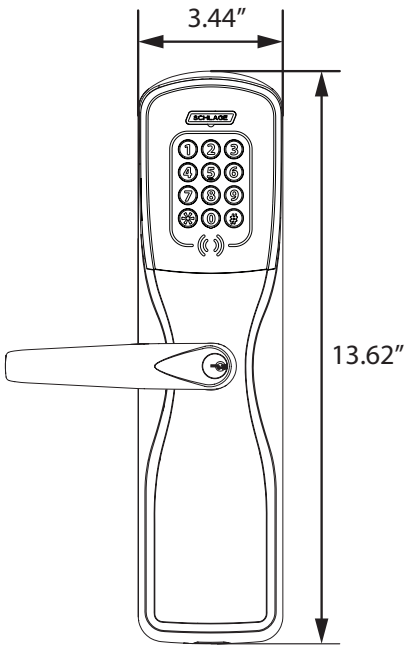
## Available AD Series reader modules[2]

- Multi-technology (125 kHz proximity and 13.56 MHz smart card)
- FIPS 201-2 compliant multi-technology (125 kHz proximity and 13.56 MHz smart card)
- Smart – iClass compatible
- NFC mobile enabled
- Magnetic stripe
- Keypad only
- All credential readers available + keypad

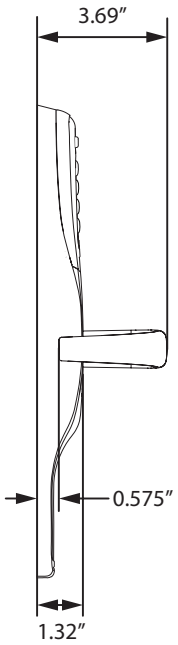
## Available communication options

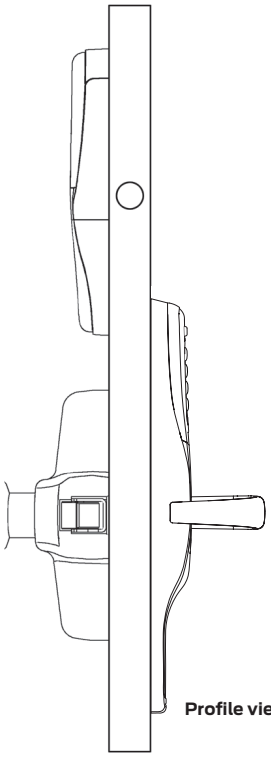
- AD-400: Networked wireless locks
- AD-402: Networked wireless locks - FIPS 201-2 compliant
- AD-300: Networked hardwired locks
- AD-302: Networked hardwired locks - FIPS 201-2 compliant
- AD-250: Offline, access rights stored on the magnetic stripe credential
- AD-200: Offline, access rights stored on the lock

[1] AD-300/302 includes LED indicator
[2] Unlike other AD Series chassis styles, upgrading reader modules on the 993 Exit Trim requires the exterior escutcheon to be removed from the door
[3] (2) #7 fasteners with decorative washers located 11.88" below bottom edge of lock

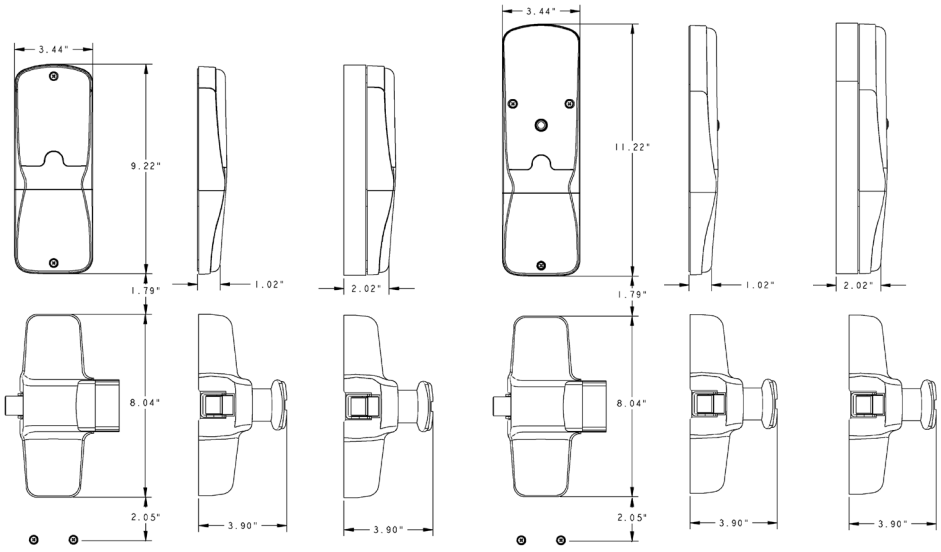



**Exterior view[3]**
AD Series - 993 Exit Trim



**Profile view**




**Interior view**
AD-200/ 250/300*/ 302[1] - all styles

**Side view**
AD-200/250/ 300[1]/302[1] – rim/CVR/CVC or mortise

**Side view**
AD-200/250/ 300[1]/302[1] SVR

**Interior view**
AD-400/402 all styles

**Side view**
AD-400/ 402 rim/CVR/CVC or mortise

**Side view**
AD-400/ 402 SVR

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# CO-100

## Standalone electronic lock

Images shown are not to scale.

## Overview

The CO Series provides ideal solutions for customers seeking the added security and convenience of electronic access control without the cost or complexity of a fully networked system. Within this group is CO-100, a standalone lock that is manually programmable. User rights are stored on the lock with unique PIN codes assigned to each user. This minimizes the number of mechanical keys issued which protects the integrity of your key system. PIN codes can be easily added or deleted at anytime, right at the door.

The CO-100 from Schlage is versatile enough to use anywhere. In the classroom/storeroom function, it is fully outdoor rated and can be used for gate or breezeway access. CO-100 privacy function locks can be programmed to show occupancy indication for applications such as dressing areas or bathrooms. And office function locks can be set up for remote release making them perfect for vestibules or waiting rooms.

Cylindrical, mortise, and exit trim chassis options are available. The series is compatible with many popular brands of exit devices and offered in a wide variety of finishes and levers to suite with your existing hardware. Mechanical key override is standard and compatible with multiple cylinder types.

CO Series has been tested to the highest standards in the industry to ensure the quality and reliability you have come to expect from Schlage. The CO Series is ANSI/BHMA A156.25, ANSI/BHMA Grade 1 certified and UL 294 Listed.

## Features and benefits

- Manually programmable
- Up to 500 unique 3-6 digit PIN codes stored on the lock
- ANSI/BHMA A156.25 (full outdoor[1]), ANSI/BHMA Grade 1 certified, UL 294 and UL 10C listed, hurricane wind and impact rated[2]
- Classroom/storeroom, office and privacy functions available
- Chassis options include cylindrical, mortise, and exit trim
- Compatible with most major brands of key systems and exit devices
- Hard wired, remote release push button capability[3]
- Programmable option for lighted occupancy indication[4]
- Three levels of user authority
- Normal, toggle, pass through, and freeze credential attributes available
- LED indicator visually communicates lock status
- Fully outdoor rated in 70 function for use on pool gates and breezeways

[1] Applies to 70 function only.

[2] Applies to cylindrical and mortise chassis only.

[3] Available on office function locks manufactured after 1/1/2018 with firmware version 2.6.2 or higher.

[4] Available on privacy function locks manufactured after 9/30/2018 with firmware version 2.7.0 or higher.

## CO-100 electronic lock specifications

| | |
|---|---|
| **Users** | 500 |
| **Credential verification time (keypad only)** | ≤ 1 second |
| **Visual/audible communications** | Tri-colored LED's and audible indicators |
| **Power supply** | 4 AA batteries (standard off the shelf: included) |
| **Battery life** | Up to 2 yrs with 4 AA batteries |
| **Operating temperature - exterior** | -31º to 151ºF (-35º to 66ºC) |
| **Operating temperature - interior** | -31º to 151ºF (-35º to 66ºC) |
| **Operating humidity** | 0 - 100% non-condensing |
| **Certifications** | ANSI/BHMA A156.25 (full outdoor[1]), ANSI/BHMA Grade 1, UL 294, UL 10C, UL Canada, FCC Part 15, FL12400[2], FL1591[2], FL13013[2] and FL14482[2]<br>ADA |

### Functions

- Classroom/storeroom
- Office
- Privacy

### Standard status signals

- Battery status–indicated by flashing LED lights
- Access granted/access denied
- Programming commands
- Occupied–indicated by red LED light (privacy function only)

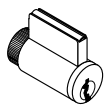
## Programming and use options

| Function code | User level | Description |
|---|---|---|
| PIN[3] | Basic | Unlocks the lock momentarily when in a normally secured state. |
| Programming | Manager/administrator | Initiates all programming actions (can be changed by administrator) |
| User changes | Manager/administrator | Assigns or deletes user PINs for the lock |
| Toggle | Manager/administrator | Changes the lock to an unlocked state and back when desired |
| Freeze | Administrator | Maintains the lock in current state until code is re-entered (cannot be toggled) |
| Pass through | Administrator | Unlocks the lock momentarily regardless of current state |
| Other | Administrator | Includes change relock delay period; change PIN length; disable/enable beeper; disable/enable remote release[4]; disable/enable LED occupancy indication[5] |

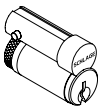
[1] Applies to 70 function only.
[2] Applies to cylindrical and mortise chassis only.
[3] Credentials can be 3-6 digits in length.
[4] Remote release feature available on office function only.
[5] Occupancy indication feature available on privacy function only.

## Mechanical specifications

| Chassis | Cylindrical | Mortise | Exit trim |
|---|---|---|---|
| Handing | Handed to order, field reversible | | |
| ANSI standard (Meets or exceeds) | A156.25<br>A156.2 Series 4000<br>Grade 1 | A156.25<br>A156.13 Series 1000<br>Grade 1 | A156.25<br>A156.3 |
| Door thickness | 1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments) | | |
| Backset | Standard: 2 3/4"<br>Optional: 2 3/8", 3 3/4", 5" | 2 3/4" only | Defined by exit device |
| Latch bolt | Standard: 1/2" throw<br>Optional: 3/4" throw | Standard: 3/4" throw | Provided by exit device |
| Levers | Pressure cast zinc, plated | | |
| Strike | Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8"<br>Optional: Additional configurations available please see price book | | Provided by exit device |
| Cylinder and keys | Schlage 6-pin Everest 29 S123 keyway Conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432) | | |
| Exit device compatibility | See CO Series exit trim compatibility data sheet (004183) | | |



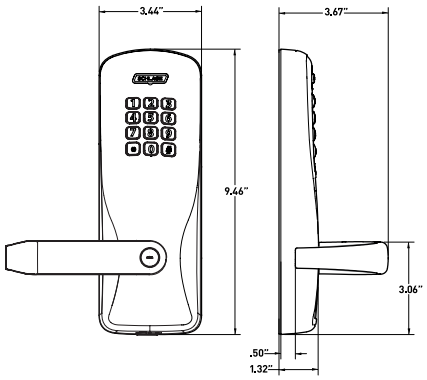
Full cylinder



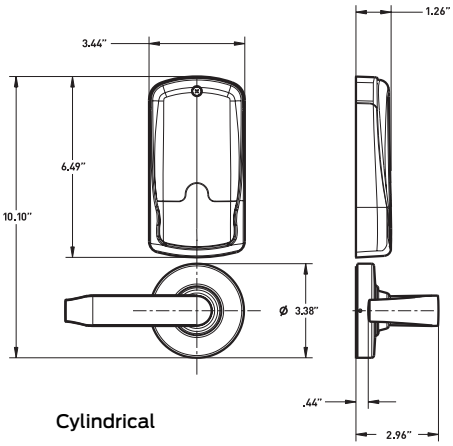
Full Size Interchangeable Core

Small Format Interchangeable Core

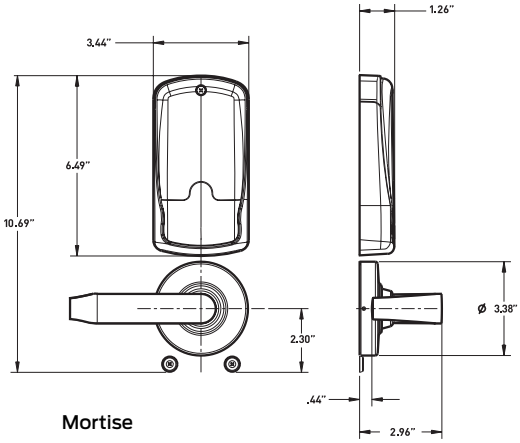
**Exterior of the lock**




**Interior of the lock**




Cylindrical




Mortise

# Ordering information

Available through one of our GSA schedule 84 approved distributions

Required fields — Factory defaults and options

CO-100-CY-70-KP-SPA-626-P6-S123-RH-13-049-10-025-1 3/4

| Series | Class | Chassis | Function | Reader | Lever style | Finish | Lever cylinder | Keying type | Handing | Backset and latch | Strike | Door thickness |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

**Selections correspond with the numbers above**

Standard options are indicated in bold. See price book for specific configuration options.

## 3 Chassis

| | |
|---|---|
| CY | Cylindrical |
| MS | Mortise |
| 993R | Exit trim – Rim/CVR/CVC |
| 993S | Exit trim – SVR |
| 993M | Exit trim – mortise |
| 993DT | Exit dummy trim |

## 4 Function

| | |
|---|---|
| 70 | Classroom/storeroom |
| 50 | Office |
| 40 | Privacy |

## 5 Reader

**KP** **Keypad**

## 6 Lever

| | |
|---|---|
| ATH | Athens |
| BRK | Boardwalk |
| BRW | Broadway |
| LAT | Latitude |
| LON | Longitude |
| RHO | Rhodes |
| SPA | Sparta |
| TLR | Tubular |

Available with tactile warning options

## 7 Finish

| | |
|---|---|
| **626** | **Satin chrome** |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

## 8 Lever cylinder type

**P6** **Schlage 6-pin Conventional key-in-lever cylinder**

See price book for other SFIC, FSIC and less cylinder options available. Compatible with Schlage, Sargent, Corbin, Medeco and Yale.

## 9 Keyway type

**S123** **Everest 29**

See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keying

## 10 Handing

| | |
|---|---|
| **RH** | **Right handed** |
| RHR | Right handed reverse |
| LH | Left handed |
| LHR | Left handed reverse |

Field reversible

## 11 Backset and latch or armor front

**Cylindrical**

**13-049** **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"**

**Mortise**

**09-663** **Armor front, 1 1/4" wide, square corner**

## 12 Strike

**Cylindrical**

**10-025** **1 3/16" lip, ANSI, no box, 1 1/4" x 4 7/8"**

**Mortise**

**10-072** **1 3/16" lip, 1 1/4" x 4 7/8" square corner, box**

See price book for other available strikes

## 13 Door thickness

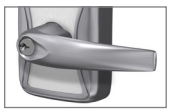
**1 3/4"**

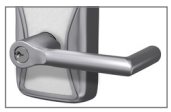
Other thicknesses available between 1 3/8" and 2 3/4"

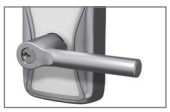
See price book for details

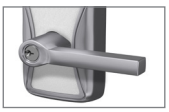
# Lever styles

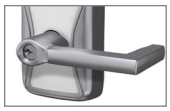
Conventional cylinders shown, SFIC and FSIC also available.


Athens


Boardwalk

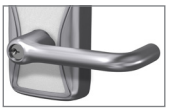

Broadway


Latitude


Longitude

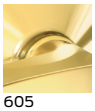
Rhodes

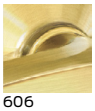
Sparta

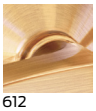

Tubular

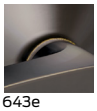
# Finishes

Warm tone finishes


605 Bright brass


606 Satin brass


612 Satin bronze


643e Aged bronze

Cool tone finishes

619 Satin nickel

625 Bright chrome

626 Satin chrome

626AM Satin chrome with antimicrobial

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## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

KRYPTONITE ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN

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004186, Rev. 03/21
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SCHLAGE

# CO-200

## Standalone electronic lock

Images shown are not to scale.

## Overview

The CO Series is the ideal solution for customers seeking the added security and convenience of electronic access control without the cost or complexity of a fully networked system.

The CO-200 is computer or manually programmable with users rights stored on the lock. The Schlage Utility Software (SUS) on the Handheld Device (HHD) or compatible Android devices (coming soon) is used in conjunction with your access control software and allows you to easily add or delete users and retrieve audits.

By issuing electronic credentials you can minimize the number of mechanical keys issued which protects the integrity of your key system. A variety of credential readers are also available including keypad only, magnetic stripe, and proximity. The magnetic stripe and proximity readers are also available with keypad for the added security of dual authentication.

Cylindrical, mortise, mortise deadbolt, and exit trim chassis options are available as well as a wide variety of finishes and levers to suite with your existing hardware.

Mechanical key override is standard and compatible with multiple cylinder types. The CO Series is also compatible with many popular brands and types of exit devices.

The CO Series has been tested the highest standards in the industry to ensure quality and reliability you have come to expect from Schlage. The CO Series is ANSI/BHMA A156.25, ANSI/BHMA Grade 1 certified and UL 294 Listed.

## Features and benefits

- Computer programmable with audit trail
- Up to 2000 users and up to 2000 audits[1]
- Up to 32 holidays and 16 time zones[1]
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1 certified, UL 294 listed, FL12400[2], FL1591[2], FL13013[2] and FL14482B[2]
- User rights stored on the lock
- The ability to add and delete users at the lock
- Available in cylindrical, mortise, mortise deadbolt, and exit trim
- Compatible with major brands of key systems and exit devices
- Classroom/storeroom, office, and privacy functions available
- Programmable option for lighted occupancy indication[3]
- LED indicator visually communicates lock status

[1] Depending on access control software.
[2] Applies to cylindrical and mortise chassis only
[3] Available on privacy function locks manufactured after February 2019 with firmware version CO.A.30 or higher.

## CO-200 electronic lock specifications

| | |
|---|---|
| Users | Up to 2,000[1] |
| Audits | Up to 2,000[1] |
| Credential verification time | ≤ 1 second |
| Visual/audible communications | Tri-colored LED's and audible indicators |
| Power supply | 4 AA batteries (standard off the shelf: included) |
| Voltage range | 4 VDC to 7 VDC |
| Max current requirement | Up to 250 mA |
| Battery life | Up to 2 yrs with 4AA batteries |
| Operating temperature - exterior | -31º to 151ºF (-35º to 66ºC) |
| Operating temperature - interior | 32º to 120ºF (0º to 49ºC) due to batteries |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C, UL Canada, FCC Part 15, ADA |

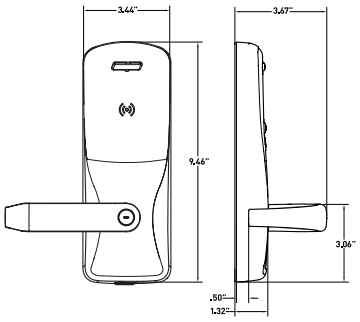
### Functions

- Classroom/storeroom[2]
- Office[2]
- Privacy[3]

### Standard status signals

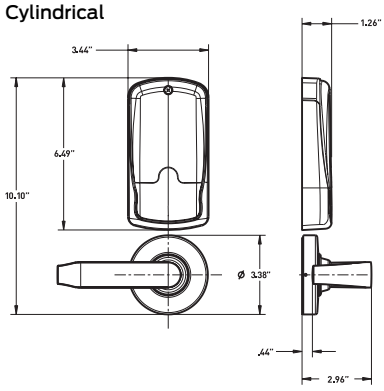
- Mechanical key override
- Battery status - indicated by flashing LED lights
- Access granted/access denied
- Programming commands
- Occupied - indicated by red LED light (privacy function only)

### Exterior of the lock

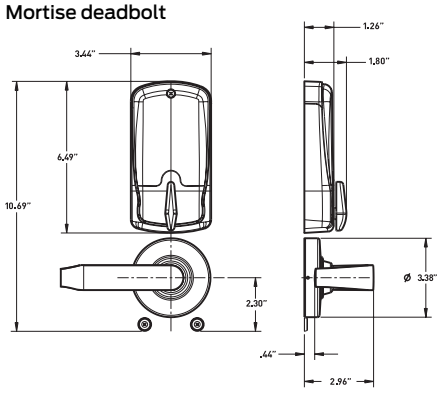



### Interior of the lock

Cylindrical




Mortise deadbolt




# Schlage Utility Software

The Schlage Utility Software (SUS) on the Handheld Device (HHD), or compatible Android mobile devices (coming soon) provides an easy way to manage people, audits and locks for simple access control management.

### Schlage Utility Software

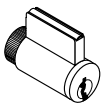
- Initialize lock and accessories
- Field configure devices
  - Credential reader formats
  - Lock function
  - Unlock period
  - Failure mode
  - Audible alarm on/off
- Service and diagnostics
  - Battery status
  - Validate hardware and software revision
  - Troubleshooting status signals
- New device template simplifies configuration

For replacement HHD devices with a serial cable connection, please contact Technical Support at 877.671.7011.

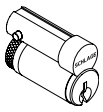
[1] Depending on access control software.
[2] Classroom/storeroom and office function not available with mortise deadbolt option. To ensure safety, all functions always allow for free egress.
[3] Door position switch is required for cylindrical and mortise chassis with privacy function.

## Mechanical specifications

| Chassis | Cylindrical | Mortise | Exit trim |
|---|---|---|---|
| Handing | Handed to order, field reversible | | |
| ANSI standard (Meets or exceeds) | A156.25<br>A156.2 Series 4000<br>Grade 1 | A156.25<br>A156.13 Series 1000<br>Grade 1 | A156.25<br>A156.3 |
| Door thickness | 1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments) | | |
| Backset | Standard: 2 3/4"<br>Optional: 2 3/8", 3 3/4", 5" | 2 3/4" only | Defined by exit device |
| Latch bolt | Standard: 1/2" throw<br>Optional: 3/4" throw | Standard: 3/4" throw<br>Optional: 1" throw on mortise deadbolt | Provided by exit device |
| Levers | Pressure cast zinc, plated | | |
| Strike | Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8"<br>Optional: Additional configurations available please see price book | | Provided by exit device |
| Cylinder and keys | Schlage 6-pin Everest 29 S123 keyway Conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432) | | |
| Exit device compatibility | See CO Series exit trim compatibility data sheet (004183) | | |



Full cylinder



Full Size Interchangeable Core

Small Format Interchangeable Core

The combo proximity keyfobs with iButton® option are available which allows you to manage proximity and iButton® technologies in the same facility.

## Reader specifications

| | Keypad | Magnetic stripe | Proximity |
|---|---|---|---|
| Frequency standards | N/A | ABA, ISO76XX standard high and low coercivity | 125 kHz |
| Maximum read range | N/A | N/A (swipe card) | up to 1.25" |
| Compatibility | 3-6 digit pin code | Triple track reader (1, 2 or 3), field configurable | Schlage, ISONAS™,HID®, GE/CASI ProxLite™ and AWID® |
| Compatible Schlage credentials | N/A | Configurable to read complete track 1, 2 or 3 | 125 kHz clamshell, ISO card, ISO card with magnetic stripe, keyfob, and PVC disk (7000 Series) |
| Style/layout | 12-button, 3x4 matrix | Option for 12-button, 3x4 matrix | Option for 12-button, 3x4 matrix |

## Available CO-200 reader options

**Keypad**

**Proximity**
+ KEYPAD

**Proximity**

**Magnetic stripe**

**Magnetic stripe**
+ KEYPAD

# Ordering information

Available through one of our GSA schedule 84 approved distributions

Required fields — Factory defaults and options

| CO | 200 | CY | 70 | PR | SPA | 626 | P6 | S123 | RH | 13-049 | 10-025 | 1 3/4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Series | Class | Chassis | Function | Reader | Lever style | Finish | Lever cylinder | Keying type | Handing | Backset and latch | Strike | Door thickness |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

**Selections correspond with the numbers above**

Standard options are indicated in bold. See price book for specific configuration options.

## 3 Chassis

| | |
|---|---|
| CY | Cylindrical |
| MS | Mortise |
| MD | Mortise deadbolt |
| 993R | Exit trim – Rim/CVC/CVR |
| 993S | Exit trim – SVR |
| 993M | Exit trim – mortise |
| 993DT | Exit dummy trim |

## 4 Function

| | |
|---|---|
| 70 | Classroom/storeroom |
| 50 | Office |
| 40 | Privacy |

## 5 Reader

| | |
|---|---|
| **KP** | **Keypad** |
| MS | Magnetic stripe |
| MSK | Magnetic stripe + keypad |
| PR | Proximity |
| PRK | Proximity + keypad |

## 6 Lever

| | |
|---|---|
| ATH | Athens |
| BRK | Boardwalk |
| BRW | Broadway |
| LAT | Latitude |
| LON | Longitude |
| RHO | Rhodes |
| SPA | Sparta |
| TLR | Tubular |

Available with tactile warning options

## 7 Finish

| | |
|---|---|
| **626** | **Satin chrome** |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

## 8 Lever cylinder type

| | |
|---|---|
| **P6** | **Schlage 6-pin Conventional key-in-lever cylinder** |

See price book for other SFIC, FSIC and less cylinder options available. Compatible with Schlage, Sargent, Corbin, Medeco and Yale.

## 9 Keyway type

| | |
|---|---|
| **S123** | **Everest 29** |

See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keying

## 10 Handing

| | |
|---|---|
| **RH** | **Right handed** |
| RHR | Right handed reverse |
| LH | Left handed |
| LHR | Left handed reverse |

Field reversible

## 11 Backset and latch or armor front

**Cylindrical**

**13-049** **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"**

**Mortise**

**09-663** **Armor front, 1 1/4" wide, square corner**

See price book for mortise deadbolt and other backset and latch options or armor front options

## 12 Strike

**Cylindrical**

**10-025** **1 3/16" lip, ANSI, no box, 1 1/4" x 4 7/8"**

**Mortise**

**10-072** **1 3/16" lip, 1 1/4" x 4 7/8" square corner, box**

See price book for other available strikes

## 13 Door thickness

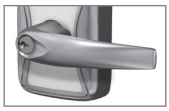
**1 3/4"**

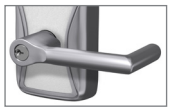
Other thicknesses available between 1 3/8" and 2 3/4"

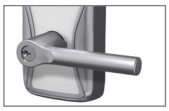
See price book for detail

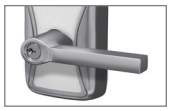
# Lever styles

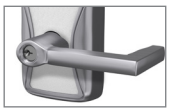
Conventional cylinders shown, SFIC and FSIC also available.


Athens

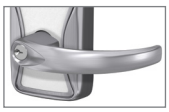

Boardwalk

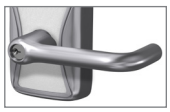

Broadway


Latitude


Longitude

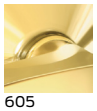
Rhodes

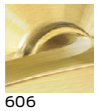

Sparta

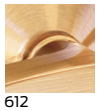

Tubular

# Finishes

Warm tone finishes


605 Bright brass


606 Satin brass


612 Satin bronze

643e Aged bronze

Cool tone finishes

619 Satin nickel

625 Bright chrome

626 Satin chrome

626AM Satin chrome with antimicrobial

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## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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# CO-220

## Standalone classroom lockdown solution with remote fob and visual indicator

Images shown are not to scale and are subject to change.

## Overview

The CO Series standalone classroom lockdown solution with remote fob and visual indicator is the ideal solution for customers who require the ability to initiate immediate local lockdown of up to 10 paired locks within range in the event of an emergency. The CO-220 classroom lockdown solution with remote fob and visual indicator can be put into a lockdown state (panic mode) from within the room by authorized staff members utilizing a pre-paired remote fob.

The CO-220 classroom lockdown solution with remote fob and visual indicator is computer or manually programmable with user rights stored on the lock. The Handheld Device (HHD), used in conjunction with your access control software, allows you to easily add or delete users and retrieve audits.

By issuing electronic credentials, you can minimize the number of mechanical keys issued which protects the integrity of your key system. A variety of credential readers are also available, including keypad, magnetic stripe and proximity.

Cylindrical, mortise and exit trim chassis options are available as well as a wide variety of finishes and levers to suite with your existing hardware. Mechanical key override is standard and compatible with multiple cylinder types.

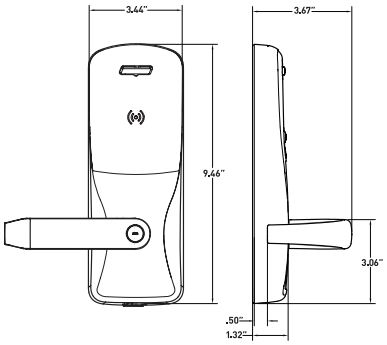
The CO Series has been tested to the highest standards in the industry to ensure the quality and reliability you have come to expect from Schlage. The CO Series is ANSI/BHMA A156.25, ANSI/BHMA Grade 1 certified, and UL 10C Listed.

## Features and benefits

- Includes one pre-paired remote lockdown fob
  - Typical range of up to 75' on secured side and up to 25' on exterior side of the door[1]
- Continuous internal LED illumination during lockdown/panic mode
- In lockdown/panic mode, only fob, key or administrative/safety official credentials will override lock
- Always free egress even in lockdown/panic mode
- Manually or computer programmable with audit trail
- Up to 2000 users and up to 2000 audits[2]
- Up to 32 holidays and 16 time zones[2]
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1 certified, UL 10C, FL12400[3], FL1591[3], FL13013[3] and FL14482[3] listed
- User rights stored on the lock
- The ability to add and delete users at the lock
- Available in cylindrical, mortise and exit trim options
- Compatible with major brands of key systems

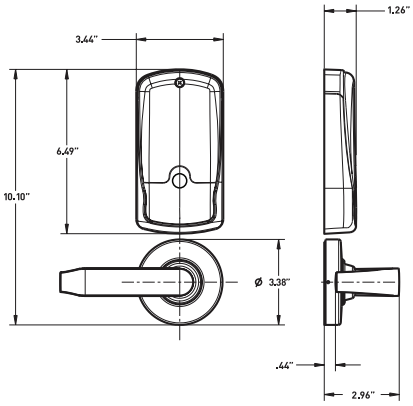
[1] Depending on building construction
[2] Depending on standalone access control software
[3] Applies to cylindrical and mortise chassis only

### Exterior of the lock




### Interior of the lock

Cylindrical




## CO-220 electronic lock specifications

| | |
|---|---|
| Users | Up to 2,000[1] |
| Audits | Up to 2,000[1] |
| Credential verification time | ≤ 1 second |
| Visual/audible communications | Tri-colored LED's and audible indicators |
| Power supply | 4 AA batteries (standard off the shelf: included) |
| Voltage range | 4 VDC to 7 VDC |
| Max current requirement | Up to 250 mA |
| Battery life | Up to 2 yrs with 4AA batteries |
| Operating temperature - exterior | -31º to 151ºF (-35º to 66ºC) |
| Operating temperature - interior | 32º to 120ºF (0º to 49ºC) due to batteries |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 10C, UL Canada, FCC Part 15, ADA |

### Functions

- Classroom security[2]

### Standard status signals

- Mechanical key override
- Battery status - indicated by blinking lights
- Access granted/access denied
- Programming commands

## Fob specifications

| | |
|---|---|
| Battery life | Up to 2 years with a CR2025 coin cell battery |

- Remote lockdown fob (part #4485001) is shipped standard with the lock and can be paired to a single lock.
- Remote lockdown fob (part #24744856) is sold separately as an accessory and can be paired to up to ten locks.
- Each lock can be paired to up to ten fobs.

# Schlage Utility Software

The Schlage Utility Software (SUS) on the Handheld Device (HHD), or compatible Android mobile devices (available mid 2021) provides an easy way to manage people, audits and locks for simple access control management.

### Schlage Utility Software

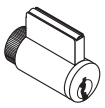
- Initialize lock and accessories
- Field configure devices
  - Credential reader formats
  - Lock function
  - Unlock period
  - Failure mode
  - Audible alarm on/off
- Service and diagnostics
  - Battery status
  - Validate hardware and software revision
  - Troubleshooting status signals
- New device template simplifies configuration

For replacement HHD devices with a serial cable connection, please contact Technical Support at 877.671.7011.

[1] Depending on access control software
[2] To ensure safety, all functions always allow for free egress

## Mechanical specifications

| Chassis | Cylindrical | Mortise | Exit trim |
|---|---|---|---|
| Handing | Handed to order, field reversible | | |
| ANSI standard (Meets or exceeds) | A156.25<br>A156.2 Series 4000<br>Grade 1 | A156.25<br>A156.13 Series 1000<br>Grade 1 | A156.25<br>A156.3 |
| Door thickness | 1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments) | | |
| Backset | Standard: 2 3/4"<br>Optional: 2 3/8", 3 3/4", 5" | 2 3/4" only | Defined by exit device |
| Latch bolt | Standard: 1/2" throw<br>Optional: 3/4" throw | Standard: 3/4" throw | Provided by exit device |
| Levers | Pressure cast zinc, plated | | |
| Strike | Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8"<br>Optional: Additional configurations available please see price book | | Provided by exit device |
| Cylinder and keys | Schlage 6-pin Everest 29 S123 keyway Conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432) | | |
| Exit device compatibility | See CO Series exit trim compatibility data sheet (004183) | | |



Full cylinder

Full Size Interchangeable Core

Small Format Interchangeable Core

## Reader specifications

| | Keypad | Magnetic stripe | Proximity |
|---|---|---|---|
| Frequency standards | N/A | ABA, ISO76XX standard high and low coercivity | 125 kHz |
| Maximum read range | N/A | N/A (swipe card) | up to 1.25" |
| Compatibility | 3-6 digit pin code | Triple track reader (1, 2 or 3), field configurable | Schlage, ISONAS®, HID®, GE/CASI ProxLiteTM and AWID® |
| Compatible Schlage credentials | N/A | Configurable to read complete track 1, 2 or 3 | 125 kHz clamshell, ISO card, ISO card with magnetic stripe, keyfob, and PVC disk (7000 Series) |
| Style/layout | 12-button, 3x4 matrix | Option for 12-button, 3x4 matrix | Option for 12-button, 3x4 matrix |

## Available CO-220 reader options

**Keypad**

**Proximity**
+ KEYPAD

**Proximity**

**Magnetic Stripe**

**Magnetic Stripe**
+ KEYPAD

# Ordering information

Required fields — Factory defaults and options

CO-220-CY-75-PR-SPA-626-P6-S123-RH-13-049-10-025-1 3/4

| Series | Class | Chassis | Function | Reader | Lever style | Finish | Lever cylinder | Keying type | Handing | Backset and latch | Strike | Door thickness |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

**Selections correspond with the numbers above**

Standards options are indicated in bold. See price book for specific configuration options.

## 3 Chassis

| | |
|---|---|
| CY | Cylindrical |
| MS | Mortise |
| 993R | Exit trim- Rim/CVC/CVR |
| 993M | Exit trim- mortise |
| 993DT | Exit dummy trim |

## 4 Function

| | |
|---|---|
| 75 | Classroom Security |

## 5 Reader

| | |
|---|---|
| **KP** | **Keypad** |
| PR | Proximity |
| PRK | Proximity + keypad |
| MS | Magnetic stripe |
| MSK | Magnetic stripe + keypad |

## 6 Lever

| | |
|---|---|
| ATH | Athens |
| BRK | Boardwalk |
| BRW | Broadway |
| LAT | Latitude |
| LON | Longitude |
| RHO | Rhodes |
| SPA | Sparta |
| TLR | Tubular |

Available with tactile warning options

## 7 Finish

| | |
|---|---|
| **626** | **Satin chrome** |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

## 8 Lever cylinder type

| | |
|---|---|
| **P6** | **Schlage 6-pin Conventional key-in-lever cylinder** |

See price book for other SFIC, FSIC and less cylinder options available. Compatible with Schlage®, Sargent®, Corbin Russwin, Medeco® and Yale®.

## 9 Keyway type

| | |
|---|---|
| **S123** | **Everest 29** |

See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keying

## 10 Handing

| | |
|---|---|
| **RH** | **Right handed** |
| RHR | Right handed reverse |
| LH | Left handed |
| LHR | Left handed reverse |

Field reversible

## 11 Backset and latch or armor front

**Cylindrical**

**13-049** **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"**

**Mortise**

**09-663** **Armor front, 1 1/4" wide, square corner**

See price book for mortise deadbolt and other backset and latch options or armor front options

## 12 Strike

**Cylindrical**

**10-025** **1 3/16" lip, ANSI, no box, 1 1/4" x 4 7/8"**

**Mortise**

**10-072** **1 3/16" lip, 1 1/4" x 4 7/8" square corner, box**

See price book for other available strikes

## 13 Door thickness

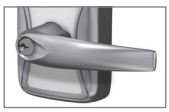
**1 3/4"**

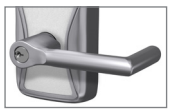
Other thicknesses available between 1 3/8" and 2 3/4"

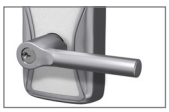
See price book for detail

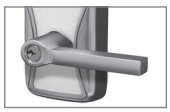
# Lever styles

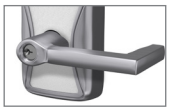
Conventional cylinders shown, SFIC and FSIC also available.


Athens


Boardwalk

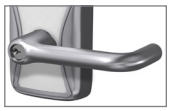

Broadway


Latitude


Longitude

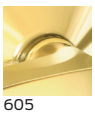
Rhodes

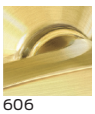
Sparta

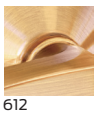

Tubular

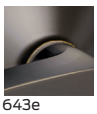
# Finishes

Warm tone finishes

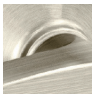

605 Bright brass


606 Satin brass

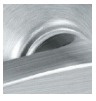

612 Satin bronze

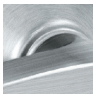

643e Aged bronze

Cool tone finishes


619 Satin nickel

625 Bright chrome


626 Satin chrome


626AM Satin chrome with antimicrobial

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SCHLAGE

# CO-250

## Standalone electronic lock

Images shown are not to scale.

## Overview

The CO Series is the ideal solution for customers seeking the added security and convenience of electronic access control without the cost or complexity of a fully networked system.

The CO-250 is a computer programmable offline lock that stores user rights on the magnetic stripe credential, and captures an audit trail in the lock. The CO-250 provides dynamic rights management, meaning you do not have to visit the door to change user access rights. This makes it a cost effective solution for offline environments with a large number of users. The CO-250 also allows you to retrieve audits by using the Handheld Device (HHD) in conjunction with your access control software.

The CO-250 from Schlage offers you many choices. Cylindrical, mortise, mortise deadbolt, and exit trim chassis options are available as well as a wide variety of finishes and levers to suite with your existing hardware.

Mechanical key override is standard and compatible with multiple cylinder types. The CO Series is also compatible with many popular brands of exit devices.

The CO Series has been tested the highest standards in the industry to ensure quality and reliability you have come to expect from Schlage. The CO Series is ANSI/BHMA A156.25, ANSI/BHMA Grade 1 certified and UL 294 Listed.

## Features and benefits

- Computer programmable with audit trail
- Unlimited number of users and up to 4000 audits[1]
- Available with magnetic stripe and magnetic stripe plus keypad
- Up to 32 holidays and 16 time zones[1]
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1 certified, UL 294 listed, FL12400[2], FL1591[2], FL13013[2] and FL14482[2]
- User rights stored on the magnetic stripe credential
- The ability to easily add and delete users
- Available in cylindrical, mortise, mortise deadbolt, and exit trim
- Compatible with major brands of key systems and exit devices
- Classroom/storeroom, office, and privacy functions available

[1] Depending on access control software.
[2] Applies to cylindrical and mortise chassis only

## CO-250 electronic lock specifications

| | |
|---|---|
| Users | Unlimited[1] |
| Audits | Up to 4,000[1] |
| Credential verification time | ≤ 1 second |
| Visual/audible communications | Tri-colored LED's and audible indicators (field configurable) |
| System Interface | Handheld device |
| Power supply | 4 AA batteries |
| Battery life | Up to 2 yrs with 4 AA batteries |
| Operating temperature - exterior | -31º to 151ºF (-35º to 66ºC) |
| Operating temperature - interior | 32º to 120ºF (0º to 49ºC) due to batteries |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10 C, UL Canada, FCC Part 15, ADA |
| Accessories | Handheld Device (HHD), magnetic stripe credential encoder (CL-Encoder 2) |

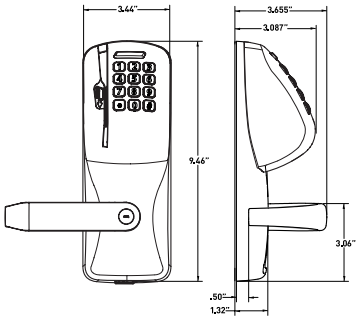
### Functions

- Classroom/storeroom[2]
- Office[2]
- Privacy[3]

### Standard status signals

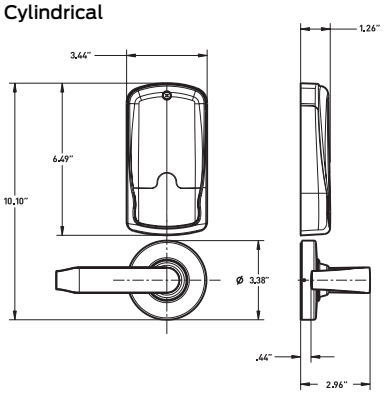
- Mechanical key override
- Battery status
- Access granted/access denied
- Programming commands

### Exterior of the lock

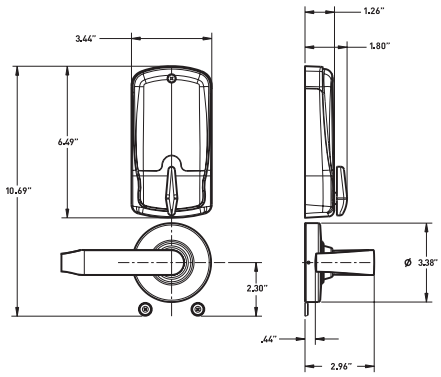



### Interior of the lock

Cylindrical




Mortise deadbolt

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### Schlage Utility Software

- Initialize lock and accessories
- Field configure devices
  - Credential reader formats
  - Lock function
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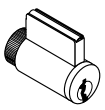
  - Battery status
  - Validate hardware and software revision
  - Troubleshooting status signals
- New device template simplifies configuration

For replacement HHD devices with a serial cable connection, please contact Technical Support at 877.671.7011.

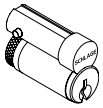
[1] Depending on access control software.
[2] Classroom/storeroom and office function not available with mortise deadbolt option. To ensure safety, all functions always allow for free egress.
[3] Door position switch is required for cylindrical and mortise chassis with privacy function.

## Mechanical specifications

| Chassis | Cylindrical | Mortise | Exit trim |
|---|---|---|---|
| Handing | Handed to order, field reversible | | |
| ANSI standard (Meets or exceeds) | A156.25<br>A156.2 Series 4000<br>Grade 1 | A156.25<br>A156.13 Series 1000<br>Grade 1 | A156.25<br>A156.3 |
| Door thickness | 1 3/4" standard, 1 3/8" to 2 3/4" optional (available in 1/8" increments) | | |
| Backset | Standard: 2 3/4"<br>Optional: 2 3/8", 3 3/4", 5" | 2 3/4" only | Defined by exit device |
| Latch bolt | Standard: 1/2" throw<br>Optional: 3/4" throw | Standard: 3/4" throw<br>Optional: 1" throw on mortise deadbolt | Provided by exit device |
| Levers | Pressure cast zinc, plated | | |
| Strike | Standard: 1 3/16" lip, ANSI, 1 1/4" x 4 7/8"<br>Optional: Additional configurations available please see price book | | Provided by exit device |
| Cylinder and keys | Schlage 6-pin Everest 29 S123 keyway Conventional cylinder with two patented keys standard. Additional options available including SFIC, FSIC and competitor brands. See lever and cylinder compatibility data sheet (010432) | | |
| Exit device compatibility | See CO Series exit trim compatibility data sheet (004183) | | |



Full cylinder



Full Size Interchangeable Core

Small Format Interchangeable Core

## Available CO-250 reader specifications

**Magnetic stripe**
- KEYPAD
- Triple track reader (1, 2 or 3), field configurable
- ABA, ISO76XX standard
- 12 button, 3x4 matrix keypad

**Magnetic stripe**
- Triple track reader (1, 2 or 3), field configurable
- ABA, ISO76XX standard

# Ordering information

Available through one of our GSA schedule 84 approved distributions

Required fields — Factory defaults and options

| CO | 250 | CY | 70 | MS | SPA | 626 | P6 | S123 | RH | 13-049 | 10-025 | 1 3/4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Series | Class | Chassis | Function | Reader | Lever style | Finish | Lever cylinder | Keying type | Handing | Backset and latch | Strike | Door thickness |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

**Selections correspond with the numbers above**

Standards options are indicated in bold. See price book for specific configuration options.

## 3 Chassis

| | |
|---|---|
| CY | Cylindrical |
| MS | Mortise |
| MD | Mortise deadbolt |
| 993R | Exit trim – Rim/CVC/CVR |
| 993S | Exit trim – SVR |
| 993M | Exit trim – mortise |
| 993DT | Dummy exit trim |

## 4 Function

| | |
|---|---|
| 70 | Classroom/storeroom |
| 50 | Office |
| 40 | Privacy |

## 5 Reader

| | |
|---|---|
| **MS** | **Magnetic stripe** |
| MSK | Magnetic stripe + keypad |

## 6 Lever

| | |
|---|---|
| ATH | Athens |
| BRK | Boardwalk |
| BRW | Broadway |
| LAT | Latitude |
| LON | Longitude |
| RHO | Rhodes |
| SPA | Sparta |
| TLR | Tubular |

Available with tactile warning options

## 7 Finish

| | |
|---|---|
| **626** | **Satin chrome** |
| 605 | Bright brass |
| 606 | Satin brass |
| 612 | Satin bronze |
| 619 | Satin nickel |
| 625 | Bright chrome |
| 643e | Aged bronze |
| 626AM | Satin chrome antimicrobial |

## 8 Lever cylinder type

**P6** **Schlage 6-pin Conventional key-in-lever cylinder**

See price book for other SFIC, FSIC and less cylinder options available. Compatible with Schlage®, Sargent®, Corbin Russwin, Medeco® and Yale®.

## 9 Keyway type

**S123** **Everest 29**

See price book for other available keyway options including restricted keyways in Primus XP high security cylinders and master keying

## 10 Handing

| | |
|---|---|
| **RH** | **Right handed** |
| RHR | Right handed reverse |
| LH | Left handed |
| LHR | Left handed reverse |

Field reversible

## 11 Backset and latch or armor front

**Cylindrical**

**13-049** **2 3/4" backset, deadlatch, square corner, 1 1/8" x 2 1/4"**

**Mortise**

**09-663** **Armor front, 1 1/4" wide, square corner**

See price book for mortise deadbolt and other backset and latch options or armor front options

## 12 Strike

**Cylindrical**

**10-025** **1 3/16" lip, ANSI, no box, 1 1/4" x 4 7/8"**

**Mortise**

**10-072** **1 3/16" lip, 1 1/4" x 4 7/8" square corner, box**

See price book for other available strikes

## 13 Door thickness

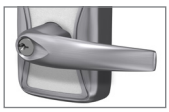
**1 3/4"**

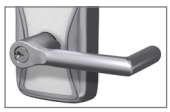
Other thicknesses available between 1 3/8" and 2 3/4"

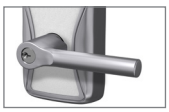
See price book for details

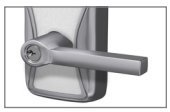
# Lever styles

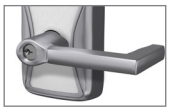
Conventional cylinders shown, SFIC and FSIC also available.


Athens


Boardwalk

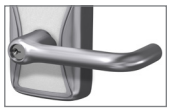

Broadway


Latitude


Longitude

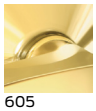
Rhodes

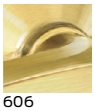
Sparta

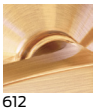

Tubular

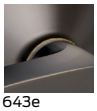
# Finishes

Warm tone finishes

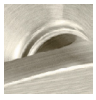

605 Bright brass


606 Satin brass


612 Satin bronze

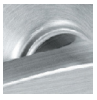

643e Aged bronze

Cool tone finishes


619 Satin nickel

625 Bright chrome

626 Satin chrome


626AM Satin chrome with antimicrobial

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# CO Series

## Exit Trim compatibility

## Overview

The CO Series offers 993 Exit Trim for use with compatible exit devices in retrofit or new construction applications. The 993 Exit Trim was designed to suite with CO Series cylindrical and mortise locksets to ensure that the facility remains aesthetically consistent. The CO Series 993 Exit Trim utilizes universal hardware to simplify installation of offline trim to a variety of exit devices, including Rim style from Von Duprin, Falcon, Sargent®, Precision™ Corbin Russwin®, Dorma®, and Yale®.

Available Exit Trim styles:

- 993R – Rim, Concealed Vertical Rod or Concealed Vertical Cable (CVR/CVC for metal doors only)
- 993S – Surface vertical rod
- 993M – Mortise
- 993DT – Non-functioning dummy trim for exit

## Features and benefits

- Multiple credential reader options
- A wide variety of finishes and lever styles
- Powered by 4 AA batteries[1]
- Compatible with all Schlage Conventional, FSIC and SFIC formatted cylinders including many competitive OEM cylinders such as Sargent®, Corbin Russwin®, Medeco® and Yale®
- UL 294 Listed, ANSI/BHMA A156.25, ANSI/BHMA Grade 1 certified[2]

## Compatibility

| Devices | CO-100/CO-200/CO-220[5]/CO-250 |
|---|---|
| Von Duprin 98/99 and 98/99XP Rim/SVR[5]/CVR[3]/CVC[3]/mortise | X |
| Von Duprin 22/22F Rim/SVR[5] | X |
| Falcon 25 Rim | X |
| Sargent® 80[4] Rim | X |
| Precision™ 21 Rim (2100 converts to 21 with Precision's BP21 kit) | X |
| Yale® 7000 Rim | X |
| Corbin Russwin® 5000 Rim | X |
| Dorma® 9300 Rim | X |

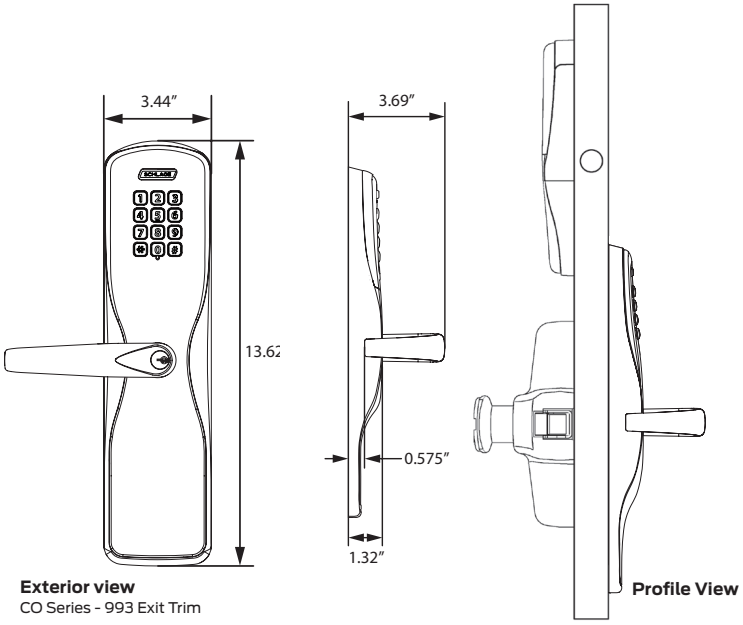
[1] Excluding dummy trim devices (993DT)
[2] UL 294 does not apply to dummy trim devices (993DT) or CO-220 locks
[3] Metal door only
[4] Narrow design and reversible Rim exits not compatible
[5] CO-220 is not compatible with surface vertical rod (SVR) devices

## Compatibility

| Reader options | | CO-100 | CO-200/CO-220 | CO-250 |
|---|---|---|---|---|
| KP | keypad | X | X | |
| PR | proximity | | X | |
| PRK | proximity + keypad | | X | |
| MS | magnetic stripe | | X | X |
| MSK | magnetic stripe + keypad | | X | X |

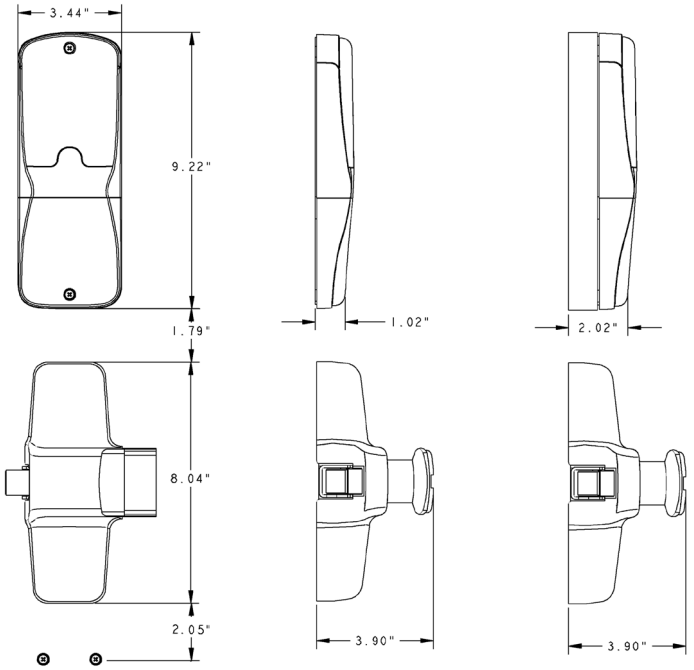
## Programming options

| Reader options | CO-100 | CO-200/CO-220 | CO-250 |
|---|---|---|---|
| Computer | | X | X |
| Manual | X | X | |




**Exterior view**
CO Series - 993 Exit Trim

**Profile View**




**Interior view**
CO-100/200/220/250 -all styles

**Side view**
CO-100/200/220/250 - Rim/CVR/CVC or mortise

**Side view**
CO-100/200/250 SVR

Note: (2) #7 fasteners with decorative washers located 11.88" below bottom edge of lock

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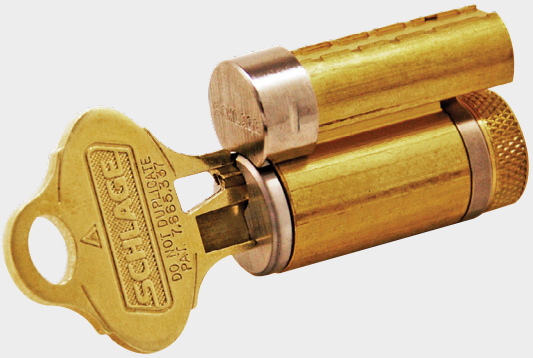
# AD Series and CO Series

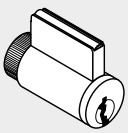
## Lever and cylinder compatibility



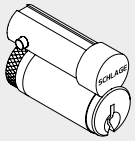

## Overview

AD Series and CO Series electronic locks come standard with the Schlage® 6-pin Everest 29™ S123 keyway and two patented keys. The Everest 29 keyway's patent-protected undercut design with protection through 2029 is available in open and restricted keyway families. Patented restricted keyways, such as the Everest 29 R and T families, deliver a higher level of security by requiring authorization to access blanks for duplication. Improve both administrative and physical security with the application of Primus XP cylinders and gain the option to also employ high security UL 437 cylinders. The Everest 29 design enables a key blank that is backwards compatible to legacy Everest keyways allowing Everest 29 keys to work with existing Everest systems aiding the key system migration process.

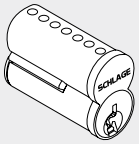
The AD Series and CO Series can also be ordered with other popular Schlage keyways or prepared to receive Falcon® Conventional key-in-lever cylinders or Small Format Interchangeable Core (SFIC) cylinders. Less cylinder options are available to provide compatibility with Conventional, FSIC or SFIC cylinders of other manufacturers including, Sargent,® Corbin Russwin,® Medeco® and Yale.®



Conventional key-in-lever P, P6, Z, L, L-SAR, L-FA7




Full Size Interchangeable Core R, M, J-SAR, J-CO6, J-CO7, J-MED, J-YA6, J-YA7




Small Format Interchangeable Core G7, B

## Features and benefits

- The key-in-lever design of AD and CO Series fits a full range of Schlage cylinders featuring administrative security options from open to patented and patented restricted keyways[1]
- Primus cylinder and key options provide enhanced physical security in the cylinder including a UL 437 listed high-security option and a patent protected key design with geographic exclusivity
- Levers are offered in a wide variety of finishes and styles
- Cylindrical, mortise, mortise deadbolt and exit trim options available
- Compatible with all Schlage Conventional, FSIC, SL (as Conventional and FSIC), and SFIC formatted cylinders including many competitive OEM cylinders
- SL cylinder option allows an Everest 29 R or legacy Everest B keyway facility to gain a Primus program level security
- AD and CO 993 exit trim is compatible with a variety of exit devices including rim style from Von Duprin, Falcon, Sargent,® Precision,™ Corbin Russwin,® Dorma® and Yale.®

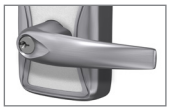
[1] Available on AD Series only.

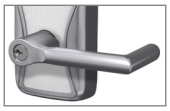
## Lever and cylinder compatibility

| | | | | Cylinder type | | | Lever style | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Part number** | **Description** | **With cylinder** | **Pins** | **KIL** | **FSIC** | **SFIC** | **ATH** | **BRK** | **BRW** | **LAT** | **LON** | **RHO** | **SPA** | **TLR** |
| P | Schlage® - (6-pin, keyed 5) | x | 6 | x | | | x | x | x | x | x | x | x | x |
| P6 | Schlage - Everest 29 S (default) | x | 6 | x | | | x | x | x | x | x | x | x | x |
| Z | Schlage SL - Everest 29 R keyways | x | 7 | x | | | x | x | x | x | x | x | x | x |
| L | Schlage, Falcon® | | 6 | x | | | x | x | x | x | x | x | x | x |
| R | Schlage - Everest 29 S (default) | x | 6 | | x | | x | x | x | x | x | x | x | x |
| M | Schlage SL -Everest 29 R keyways | x | 7 | | x | | x | x | x | x | x | x | x | x |
| J | Schlage | | 6 | | x | | x | x | x | x | x | x | x | x |
| G7 | Schlage Everest 29 R keyways | x | 7 | | | x | x | x | x | x | x | x | x | x |
| B | Schlage, Falcon, Competitive OEM's | | 7 | | | x | x | x | x | x | x | x | x | x |
| L-FA7 | Falcon | | 7 | x | | | | x | x | x | x | x | x | |
| L-SAR | Sargent® (10L+11L) | | 6 | x | | | x | x | x | x | x | x | x | x |
| J-SAR | Sargent 6300 | | 6 | | x | | x | x | x | x | x | x | x | x |
| J-CO6 | Corbin® 8000 | | 6 | | x | | x | x | x | x | x | x | x | x |
| J-CO7 | Corbin 8000-7 | | 7 | | x | | | x | x | x | x | x | x | x |
| J-MED | Medeco® 32*0201 | | 6 | | x | | | x | x | x | x | x | x | |
| J-YA6 | Yale® 1210 or Medeco 31*0100 | | 6 | | x | | x | x | x | x | x | x | x | x |
| J-YA7 | Yale 1220 | | 7 | | x | | | x | x | x | x | x | x | |

## Lever styles

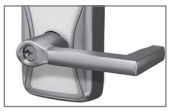
Conventional cylinders shown, SFIC and FSIC also available.


Athens


Boardwalk

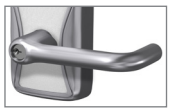
Broadway

Latitude


Longitude

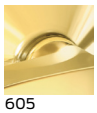
Rhodes

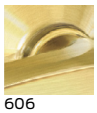
Sparta

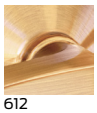

Tubular

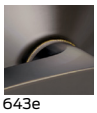
## Finishes

Warm tone finishes


605
Bright brass


606
Satin brass


612
Satin bronze


643e
Aged bronze

Cool tone finishes

619
Satin nickel

625
Bright chrome

626
Satin chrome

626AM
Satin chrome with antimicrobial

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# CT5000

## Offline controller

## Overview

The CT5000 is an offline single opening controller designed for applications where the security and convenience of offline electronic access control is desired, but an integrated electronic lock may not be practical. It is an ideal solution for narrow stile aluminum store front applications because it can work with a variety of readers, as well as interface with peripheral devices such automatic operators, electric strikes, and electromagnetic locks.

The CT5000 is compatible with many brands and types of credential technologies including magnetic stripe (tracks 1, 2, and 3), 125 kHz proximity, and 13.56 MHz smart cards. It also supports a variety of card functions including: normal, toggle, freeze, pass through, construction, lockdown and card + PIN applications.

As a complement to your facility's portfolio of CO Series and AD Series devices and networked readers, CT5000 is also capable of upgrade should your needs change to a wireless networked solution.

With the addition of a networked communication board and upgraded firmware, the CT5000 becomes a wireless reader interface capable of communicating via 900MHz signal to an AD Series PIM400. As a wireless reader interface, it can connect to your networked access control system, eliminating the need to run additional wires to the door, saving you time and money on installation.

## Features and benefits

- Three form C relay outputs and three inputs that can include door position and request to exit
- CT5000 strike relay can be configured to fail safe or fail secure
- Upgradable to a wireless reader interface configuration to allow networked communication as your security needs evolve
- Supports up to two parallel Wiegand or Clock & Data reader inputs on a single opening
- Programmable via Schlage Utility Software (SUS) mobile app on compatible Android device
- Includes a 15' cable and wallplate connection to enable HHD programming from a remote connection point with a 125' cable option available
- Up to 5000 unique users[1] with audit trail of up to 5000 events[1]
- Up to 16 holidays and 8 time zones enables auto lock and unlock during specified periods with Schlage Express software use
- Door monitoring capable including door position and request-to-exit (remote release)

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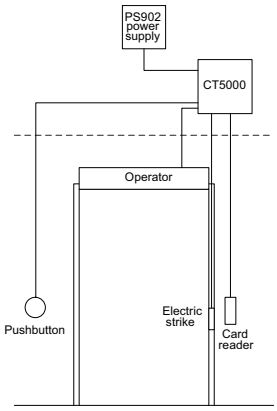
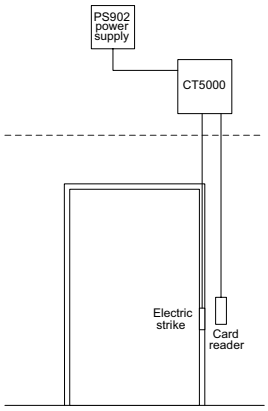
[1] Depending on your access control software

# CT5000 offline controllers

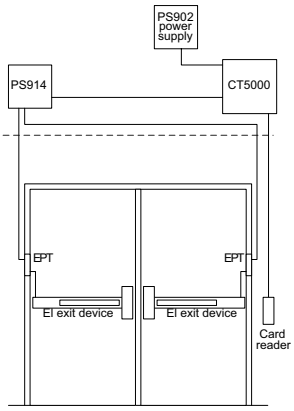
The CT5000 can be used for front door applications with an automatic operator, electric strike and card reader




For narrow stile applications, the CT5000 can be used with an electric strike and card reader




The CT5000 and a card reader along with the Von Duprin 914 Power Supply can control two EL exit devices for double door applications




Note: PS902 and Von Duprin PS914 are sold separately.

## CT5000 offline controller specifications

| | | |
|---|---|---|
| Users | | Up to 5000 |
| Audits | | Up to 5000 |
| Power supply | | 12 VDC or 24 VDC (sold separately, must be UL 294 Class 2 listed power supply) |
| Voltage range | | 9.5 VDC to 26 VDC |
| Connector cable specifications | DC power input | 18AWG, 2 conductor (Belden 8760 or equivalent) up to 1000 ft (305 m) |
| | Credential readers (x2) | Data signals: 22AWG, 6 conductor (Alpha 1296C or equivalent) up to 500 feet (152 meters)<br>Reader tamper signals: 18AWG, twisted pair shielded (Belden 8760 or equivalent) up to 500 feet (152 meters) |
| | Strike/aux relay outputs | 18AWG, 2 conductor (Belden 8760 or equivalent) up to 2000 feet (610 meters) |
| Relay output tolerances | Strike output relay | Form C relay; 6 amps @ 24VDC or 6 amps @ 20 VAC or 3 amps @ 240 VAC |
| | Auxiliary output relay | Form C relay; 6 amps @ 24VDC or 6 amps @ 20 VAC or 3 amps @ 240 VAC |
| | Alarm output relay | Form C relay; 6 amps @ 24VDC or 6 amps @ 20 VAC or 3 amps @ 240 VAC |
| Operating temperature | | -31°F (-35°C) to 151°F (66°C) |
| Operating humidity | | 0 - 100% condensing |
| Certifications | | UL 294; Canada UL; FCC Part 15; RoHS |
| Dimensions | | 10.43" x 7.28" x 3.79"<br>26.49 cm x 18.49 cm x 9.63 cm |
| Programming method | | Manually programmed via compatible keypad or computer programmed via Schlage Utility Software (SUS) mobile app on compatible Android mobile device |
| Optional accessories | | 125 foot USB remote cable connector, PS902, PS904 or Von Duprin® PS914 (sold separately) |

## Credential compatibility (software and reader dependent)

| | |
|---|---|
| Magnetic stripe card | Field configurable track 1, 2, or 3 |
| Proximity card | Schlage, ISONAS® (34X, 35X, 35C, 37X bit formats), HID®, GE/CASI ProxLite™ and AWID® 26 bit format |
| Smart card | Schlage MIFARE DESFire™ EV1 and EV2, HID iCLASS® CSN only 26 bit format |

The following readers are UL 294 listed for use with the CT5000:

- Essex Electronics model KTP-162
- Mercury Security models MR-5 and MR-20
- Schlage model PR10
- Schlage models MTB11, MTB15, MTKB15, MT11, MT15, MTK15, MTMS15, MTMSK15, and SM10

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SCHLAGE

# Schlage Utility Software (SUS)

## on the Handheld Device (HHD)

## Overview

Schlage Utility Software (SUS) is designed specifically for use on the Handheld Device (HHD) as the link between your access control management software and Schlage AD/CO electronic offline and networked locks and accessories.

This solution consolidates and simplifies programming and managing your access control system. The SUS and HHD are used to initialize, configure and test product operation, and also provides an easy way to manage people, audits, locks and other network panel interface devices for simple access control. The intuitive screen layout for the SUS provides easy navigation during use.

For offline products, the SUS is utilized to transfer access control data, such as authorized user lists, via the HHD to the locks. The SUS is also utilized to download audit trail information from offline devices to the HHD and then transfer that data to the access control management software.

In addition, the SUS can configure other networked electronic devices (including PIM and PIB) and update firmware revision updates to the devices, as desired.

The HHD connects with Schlage AD Series electronic locks and accessories via a USB interface and utilizes active Synch or Win mobile device manager to communicate with your PC via the USB port. The HHD is also able to connect to the SPED, KC2, CM, CL, CT5000, CT1000, CL Controller and WA Series PIMs via a serial cable connection.

## Features and benefits

- Handheld Device with Schlage Utility Software installed
- Touch screen operation
- Initialize lock and accessories with SUS
- Configure and test devices
- New device template simplifies configuration

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## HHD compatible devices and required cable and adaptors

| Devices | Cable and adaptors |
|---|---|
| AD Series and CO Series locks PIM400, PIB300, WRI400, ECK400, GCK400, WPR400, TK400 and CT5000 controller | HH-USB (included in HHD-kit) |

# Features and specifications

### Schlage Utility Software

- Initialize lock and accessories
- Field configure devices
  - Credential reader formats
  - Lock function
  - Unlock period
  - Failure mode
  - Audible alarm on/off
- Offline devices
  - Manage up to 100 unique door files
  - Retrieve audit trails from up to 100 devices
- Networked devices
  - Communication settings
  - Validate status monitor
- Service and diagnostics
  - Battery status
  - Validate hardware and software revision
  - Troubleshooting status signals
  - Firmware upgrades

### HHD specifications

- 3.5 inch display
- Touch screen with backlit keypad
- Operating system: Windows Mobile 5.0
- Memory: 128 MB RAM / 256 MB ROM
- Battery: rechargeable Li-ion
- Dimensions (H x W x D): 5.1" X 2.8" X 0.65" (13.0 cm x 7.2 cm x 1.7 cm)
- Weight: 0.42 lbs (190 g)
- 5 ft (1.2 m) drop to steel surface, 2 drops per 6 sides

### How-to-videos

- Specially formatted how-to videos for viewing on the HHD are available online
- They can be downloaded from www.schlage.com/support
- If additional storage is needed, a standard mini SD memory card can be used
- Videos should be saved on the SD card or in a new folder on the device rather than in the shared sync folder or root directory
- Includes AD Series how-to instructions for door prep, installation, reader changes, etc.

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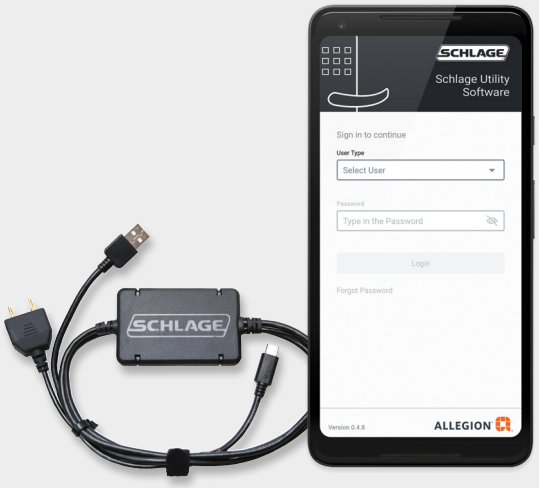
# Schlage Utility Software (SUS)

utilizing the SUS-A cable




## Overview

The Schlage Utility Software (SUS) mobile app for Android devices is designed specifically for use with the SUS-A cable to set up and act as the link between access control software and select Schlage® electronic locks and accessories. This new SUS mobile app and cable replaces the current SUS and HHD solution.

The SUS and SUS-A cable are used with networked and offline locks to initialize and configure devices, test operational status, perform ongoing system maintenance and update device firmware.

In addition, for offline devices, the SUS solution is utilized to transfer access control data from the Schlage Express access control software (such as authorized user lists) via the mobile device and cable to the locks or accessories. SUS is also utilized to download audit trail information from locks to the mobile device and then transfer that data to Schlage Express for analysis and storage.

The intuitive screen layout of the free SUS mobile app provides easy navigation during use. The SUS-A cable is an all-in-one solution with separate connectors – USB-A for our USB enabled devices and a 2-pin serial connection for our serial enabled devices – to connect the mobile device to the locks.

## Features and benefits

- Intuitive, free SUS mobile app for Android devices
- Single cable for Schlage AD and CO Series locks and legacy devices
- Facilitates initialization of locks and accessories
- Configures and tests devices
- Simplifies firmware updates
- Import/Export Device Configuration feature simplifies configuration process
- Ability to reclass Schlage AD Series locks
- Manager and Operator user modes

## Features and specifications

| | |
|---|---|
| **Initialize lock and accessories** | Yes |
| **Field configure devices** | ▪ Credential reader formats<br>▪ Lock function<br>▪ Unlock period<br>▪ Failure mode<br>▪ Audible alarm on/off |
| **Offline devices** | ▪ Manage up to 100 unique door files<br>▪ Retrieve audit trails from up to 100 devices |
| **Networked devices** | ▪ Communication settings<br>▪ Validate status monitor |
| **Service and diagnostics** | ▪ Battery status<br>▪ Validate hardware and software revision<br>▪ Troubleshooting status signals<br>▪ Firmware upgrades |

## Device compatibility

SUS mobile app and SUS-A cable are compatible with the following Schlage devices

- AD-400/401/402, AD-300/301/302, AD-200 locks, AD Series readers
- PIM400 (RSI and TD2), WPR400/401, PIB300, WRI400, CT5000 controller
- BE367/FE210 (SPED) locks
- AD-201, AD-250, CO-200, CO-220, CO-250 locks, CM, CL, KC2 locks (compatible later in 2021)

If you are unsure if your devices are compatible with the new SUS mobile app and SUS-A cable please contact technical support at 877-671-7011 (Option 2).

If you require SUS functionality prior to the new SUS solution being compatible with your devices, (such as some models of the CO and AD Series locks or legacy Schlage electronic locks), please contact your Allegion representative for options to obtain the legacy HHD solution.

## Android mobile device

Recommendations

- Android Pie 9.0 or newer (minimum SDK 28)
- For optimum performance, the SUS mobile app has been tested with flagship Android devices from major manufacturers including:
  - Google Pixel 3 or newer
  - Moto G6 or newer
  - Samsung S8 or newer
- Mobile phones are not available for purchase from Allegion
- Cellular plan is not required
- Apple devices are not compatible with the SUS and SUS-A cable solution

## Firmware requirements

- Device firmware needs to be at a minimum version to function correctly with the SUS mobile app and SUS-A cable
  - AD Series: AD.A.130
  - SPED: V1.30

## Ordering information

- 47282796 SUS A-KIT– USB and 2-pin Android cable
- SUS mobile app for compatible Android devices running Android Pie 9.0 or newer is available at no charge in the Google Play store – search for “Schlage Utility Software - SUS”

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SCHLAGE

# Schlage Express™

## Offline Access Control Software

## Overview

Schlage Express™ Offline Access Control Software provides a simple and effective means to manage access control within your facility. It supports Schlage offline locks including the CO-200, CO-220 and AD-200, as well as the CT5000 controller. Schlage Express is recommended for smaller facilities with basic access control needs.

It allows you to quickly enter or delete users and access points. It is compatible with a variety of credential options including PIN codes, iButtons, magnetic stripe, proximity and smart cards. For added security, dual authentication (card + PIN) is also supported.

Reporting capability is available to show audit trails retrieved, access privileges granted, and time functions established by either user or door.

## Features and benefits

- A variety of credential functions are supported including normal, toggle, one time and pass through
- Auto unlock schedules - allows weekly repeating for automatic locking and unlocking of doors (up to 16 defined per system; up to 8 assigned per lock)
- Supports magnetic stripe, proximity and smart cards
- Supported devices include CO-200, CO-220, AD-200, CM, KC-2, CT-1000, CT5000, FE210 and BE367
- Supports Windows 10, Windows XP, Windows 7 and Windows 8
  Please note that Schlage Express Software is NOT supported on the Home and Starter Versions of the Windows Operating Systems.
- User times zones- limits the hours and days a user can access assigned points (Up to 8)
- Holidays - suspends normal operations for user defined periods per door during non-normal days (Up to 16)
- Users/audits and lock support
- 2,000 Users/audits and 50 locks/devices
- 1,000 Users/audits and 100 locks/devices
- Supports 12 button keypad with up to 6 digit PIN codes
- Duplicate PIN notification feature

## Specifications

| | |
|---|---|
| Hardware | Intel Pentium II processor (Pentium III or IV recommended), CD-ROM, mouse or compatible pointing device, VGA or Super VGA monitor, keyboard |
| Hard disk space | 250 MB for software; will require additional space for stored data |
| Memory | 256 MB RAM minimum or the memory required for the operating system, whichever is greater |
| Operating system | Microsoft Windows 10, Windows XP, Windows 7 and Windows 8<br>Please note that Schlage Express Software is NOT supported on the Home and Starter Versions of the Windows Operating Systems. |
| **Reports with the built-in viewer Internet Explorer 6 or higher must be installed.** | |
| Required for programming | For offline locking system programming using a Schlage approved device, the following is required:<br>▪ Available USB port on the PC<br>▪ Approved device with installed Schlage Utility Software (SUS) and interface cables from Schlage |
| | For offline legacy locking system programming done directly from the PC, the following is required:<br>▪ Available USB port on the PC<br>▪ Programming interface cables |

# Ordering information

- **SXPR-SFT-1** - Schlage Express software only

### Accessories

- **SUS-A Cable** – For use with SUS mobile app on compatible Android devices
- **HHD KIT** - Handheld device to manage Schlage offline locks (USB cable included for managing AD Series and CO Series locks)
- **P512112** - Computer interface module used in conjunction with HH-Serial cable for managing legacy Schlage offline locks
- **P101203** - Computer Interface module with ibutton reader used in conjunction with HH-Serial Cable for managing legacy Schlage offline locks
- **P394548** - Female/female serial cable. Used to connect computer interface module to laptop/PC
- **SDB9USBCBL** - Six inch cable adapter allows a serial port device to be used with a USB port device (for use with PS12112)
- **CRP2** - Proximity credential enrollment reader. Used to read proximity data for enrollment into Schlage Express 4.0 and higher
- **CRM2** - Magnetic stripe credential enrollment reader. Used to read magnetic stripe data for enrollment into Schlage Express 4.0 and higher

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SCHLAGE

# Schlage Express™

## Offline access control software capability matrix

| | CO-200 & CO-220 | AD-200 |
|---|---|---|
| **System capacity at lock** | | |
| Number of users or audits/locks | 2,000 users/audits, 50 lock max. | 2,000 users/audits, 50 lock max. |
| | 1,000 users/audits, 100 lock max. | 1,000 users/audits, 100 lock max. |
| Holidays | 16 | 16 |
| 1st person in | Yes | Yes |
| Time zones | 8 | 8 |
| Auto unlocks | 8 | 8 |
| **Reader** | | |
| Keypad only | Yes | Yes |
| Magnetic stripe | Yes | Yes |
| Proximity | Yes | Yes |
| Multi-technology - 125 kHz prox and 13.56 MHz smart card | No | Yes |
| Card + PIN | Yes (3 to 6) | Yes (3 to 6) |
| **Status monitors** | | |
| Mechanical key override (ATK) | Yes | Yes |
| Battery status | Yes | Yes |

NOTE: Shaded boxes indicate features that are only available in Express v4.0 or higher.

Previous versions (Express 3.5.7 and older) support 1000 users/audits and 100 locks, and do not include AD Series and CO Series software labels.

| | CO-200 & CO-220 | AD-200 |
|---|---|---|
| **Lock functions** | | |
| Classroom/storeroom | CO-200 only | Yes |
| Office/toggle | CO-200 only | Yes |
| Privacy | CO-200 only | Yes |
| Apartment | CO-200 only | Yes |
| Classroom security | CO-220 only | No |
| **Credential attributes** | | |
| Normal credential | Yes | Yes |
| Toggle credential | Yes | Yes |
| Pass thru credential | Yes | Yes |
| Visitor/one time use credential | Yes | Yes |
| Freeze credential | Yes | Yes |
| Lock down credential | No | No |

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# Electro-mechanical Solutions

This section of the Electronic Access Control catalog covers LCN, Schlage, Von Duprin and Ives products which can be equipped with electronic features for added security and functionality.

## Electrified locks

### Overview

The mechanical lock is one of the most basic aspects of electronic access systems; however, they are as important as any other component of such a system. Mechanical security components must be able to stand up to constant wear and tear, and in some cases be durable enough to handle direct attack or abuse. Without such durability and integrity, a building's assets and people are at risk.

### Features

The two primary Schlage commercial lock families are the L Series Grade 1 mortise lock and the ND Series Grade 1 cylindrical lock. Both the L and ND series are available in mechanical, wired electrified and wireless electronic configurations so that an entire project can be suited with a single lock family for a consistent look and feel. The features outlined below will focus on the wired electrified offerings of these two series.

The wired electrified Schlage L and ND locks have numerous advantages due to their use of motors instead of solenoids in their locking mechanisms. In regards to efficiency, the locks have a very low maximum current draw - saving money by allowing more locks on a single power supply. They also have an extremely low holding current - only 10mA; thus, operating more efficiently and eliminating the "hot levers" found in other locks. Motor driven locks are also inherently more quiet than the solenoid counterparts.

Flexibility is also enhanced with the wired electrified Schlage L and ND. A single lock can support 12 or 24V applications, and operating mode - electrically locking (aka fail safe) or electrically unlocking (aka fail secure) - can easily be selected with a switch on the chassis. Request-to-exit, a popular option used on about 60% of locks, can even be "plugged in" at a later time. Combined, this flexibility allows a single electrified L or electrified ND lock to replace 8 traditional electrified locks - thus ensuring the right lock is always available at the job site or on the work truck. Additional options and details are available on the following product-specific pages.

### Benefits

Years of engineering and design have been put into the L Series and ND Series from Schlage. This means with both sets of locks, strength, dependability, and flexibility are the best on the market today. Even after purchasing an expensive electronic access control system, there can still be a point of weakness at the opening if the mechanical lock does not function properly or stand up to abuse. Moreover, many tenants are depending on the mechanical aspects of an opening to be completely functional every day. When so much is at stake, you can rely on Schlage products to be dependable, strong, and flexible.

# Exit devices - electrical options

### Overview

Exit devices are a critical part of a fire and life safety egress system and provide safe and reliable service when properly applied and maintained. Von Duprin's portfolio of exit device hardware features a variety of options that allow the device to be controlled electronically. When an electrical option is used, the exit device integrates into any access control system.

### Features

There are a variety of electrical options that can be applied to a Von Duprin exit device. Electric latch retraction allows for the remote unlatching of exit devices. Monitoring switches, such as RX and LX, are used to signal the state of an opening. Delayed egress and alarmed exits, such as the Chexit and ALK exit, help to deter unauthorized use of certain openings. Von Duprin also offers a variety of electrified exit trims that work seamlessly with the exit device. For a complete view of the range of available Von Duprin electrical options, please see the Von Duprin exit device catalogs.

### Benefits

Applying electrical features to your Von Duprin exit devices allows you to remotely control, monitor and delay or alarm latch retraction, while allowing safe and efficient egress.

# Door control - electrical options

### Overview

LCN has automatic operator solutions to meet the full array of ADA accessibility and door control needs, including low-energy pneumatic and electric designs. What's more, they utilize several patented components and are all assembled by hand in the United States. LCN's comprehensive portfolio of solutions help building owners bridge the gap between business objectives and ADA accessibility, without sacrificing other needs related to high use and abuse, design, fire and life safety and security.

### Features

LCN pneumatic auto equalizer systems use the power of pressurized air to do the work of automatically opening the door. A basic pneumatic system consists of an automatic operator to provide the door control, a control box that contains the valves and electrical timing circuits, actuators to start the system and a compressed air source. Electrohydraulic auto equalizer products can operate as normal rack & pinion door closers or, at the touch of a button, open automatically. An integrated digital control suite provides all electrical control functions. Two surface mount models are available; the 4630 Series mounts on the pull side of the door and the 4640 Series mounts on the push side of the door. LCN's electromechanical products are designed primarily for automatic opening applications that occasionally require manual opening. A control box provides all electrical functions. Surface mounted and overhead concealed mountings are available.

### Benefits

LCN automatic operator solutions have been the proven standard in schools and health care facilities for over 20 years and are designed to meet ADA regulations for accessible openings. They are easily retrofitted into existing doors and frames, as well as new construction.

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SCHLAGE®

# L Series

## Electrified mortise lock

## Overview

Many of the most advanced electronic access systems still rely on the strength and functionality of the mechanical lock hardware on the door. L Series electrified mortise locks include Schlage's most diverse aesthetic options in a design built for performance, security and durability. It can be used as part of an integrated system or as a standalone solution with a buzzer or other device as the controller.

The L Series offers exceptional flexibility and power savings. The lock automatically adapts to 12V or 24V DC input, and a case-mounted switch allows selection between EL and EU operation. Request-to-exit is modular and can be added without opening the lock case. 0.4 amps maximum current draw allows multiple units on a single power supply, while 0.01 amps holding current eliminates "hot levers" in EL applications.

Utilizing the same levers, trims and options as the mechanical Schlage L Series mortise, it suites seamlessly with the other L Series hardware which includes both purely mechanical and fully electronic solutions. And because it is based on the Schlage L mortise, it carries the same proven record of performance, strength and durability from the most trusted name in the industry.

### Recommended applications

The wired electrified L Series is ideal for new construction and high traffic areas where hardwired power ensures continuous operation and where electrified door prep, hinges and wiring can easily be incorporated into the building.

The electrified L Series is regularly used as part of an access control system for high security areas, or independently in areas that require a remote access switch.

## Features and benefits

- Universal input voltage – accepts 12V or 24V DC for installation flexibility
- User selectable fail safe/fail secure through use of switch on lock case
- Low maximum current draw allows multiple locks on a single power supply
- Low holding current produces minimal heat, eliminating "hot levers" in electrically locking applications
- Modular design allows RX feature to be added at a later time without opening the lock case
- UL listed for 3-hour fire door
- Available with Vandlgard® lever engagement - ideal for areas subject to abuse or vandalism
- Extensive options for lever styles, finishes and functions

### Available options:

- Request-to-Exit (RX)
- Latchbolt Monitor (LX)
- Door Position Sensor (DPS)
  - non-deadbolt functions only
- Deadbolt Monitor (DM)
  - standard, deadbolt functions only

## L Series mechanical specifications

| | |
|---|---|
| **Handing** | Field reversible |
| **Door thickness** | 1 3/4" (44 mm) standard, 1 3/8" (35 mm) to 2 1/2" (64 mm) optional. Over 2 1/2" (64 mm) door ranges vary by function. Specify door thickness other than 1 3/4" and position in door EE, EI, EO, and ED. |
| **Backset** | 2 3/4" (70 mm) only |
| **Armored front** | Standard: 1 1/4" x 8" x 7/32" (32 mm x 203 mm x 6 mm) Optional: 1 1/16" x 8" x 7/32" (27 mm x 203 mm x 6 mm) |
| **Case size** | 4 7/16" x 6 1/16" x 1" (113 mm x 154 mm x 25 mm) |
| **Spacing** | Knob or lever to cylinder, 3 7/8" (98 mm); knob or lever to thumbturn hub, 2 11/16" (68 mm) |
| **Bolts** | 1" (25 mm) throw stainless steel deadbolt and 3/4" (19 mm) throw stainless steel latch with anti-friction tongue |
| **Cylinders and key systems** | **Standard:** Pin and tumbler mechanism in the Patented Schlage Everest 29 S123 keyway (6-pin); two nickel silver cut keys per lock<br><br>**Additional keying options available:** Conventional and interchangeable cores; master and grand master keying; compatible with competitor cylinders and cams that support the L9000 Series |
| **Strike** | ANSI curved lip strike 1 1/4" x 4 7/8" (32 mm x 124 mm) x 1 3/16" (30 mm) lip to center with dust box standard |
| **Trim** | Five roses (sectional) and two escutcheons available |
| **Levers** | 33 lever and two knob designs<br>Ligature resistant and hospital push/pull trim also available |
| **Finishes** | 14 available |

## Vandlgard®

The outside lever rotates freely down when locked, limiting the ability of vandals to apply excessive force which could damage the lock.

## L Series electronic specifications

| | |
|---|---|
| **Voltage** | Auto-detects 12/24V DC operation |
| **Peak current** | 0.4 amps |
| **Holding current** | 0.010 amps |
| **Operating temperature** | Maximum +140°F (+60°C)<br>Minimum -22°F (-30°C) |
| **Interfacing devices** | Biometric devices, wall switches, security consoles, access card readers, thermo-sensitive devices, smoke and fire alarms, telephone access controls, automatic time devices and computerized controls |
| **Micro switch electrical rating for request-to-exit (RX) function and latchbolt monitor (LX)** | 3 amps, 125V AC; 2 amps, 30V DC |

## L Series electrified functions

| | |
|---|---|
| **No Cylinder** | L9090EL/EU Electrically locking/unlocking outside lever<br>L9091EL/EU Electrically locking/unlocking both levers |
| **Outside Cylinder** | L9092EL/EU Electrically locking/unlocking outside lever<br>L9093EL/EU Electrically locking/unlocking both levers |
| **Inside & Outside Cylinder** | L9095EL/EU Electrically locking/unlocking both levers |

## L Series electrified deadbolt functions

| | |
|---|---|
| **Outside Cylinder** | L9492EL/EU Electrically locking/unlocking outsider lever, inside thumbturn, with deadbolt<br>L9493EL/EU Electrically locking/unlocking both levers |
| **Inside & Outside Cylinder** | L9494EL/EU Electrically locking/unlocking outsider lever<br>L9495EL/EU Electrically locking/unlocking both levers |

Note: See pricebook for additional details.

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# ND Series

## Electrified cylindrical lock

## Overview

Many of the most advanced electronic access systems still rely on the strength and functionality of the mechanical lock hardware on the door. ND Series electrified locks feature Schlage's most robust cylindrical design built for performance, security and durability. It is a "beyond grade 1" lock in terms of strength and can be used as part of an integrated system or as a standalone solution with a buzzer or other device as the controller.

The Schlage ND cylindrical lock uses a motor instead of a solenoid to provide quiet operation and energy efficiency. The maximum current draw of 0.23 amps allows more locks to run off a single power supply. A low, 0.010 amp holding current eliminates any potential for hot levers in electrically locking applications or in electrically unlocking applications where the door is left open for long periods of time. ND Series can be quickly and easily installed and is compatible with various key systems for field adaptability. It suites seamlessly with the other ND Series hardware which includes both purely mechanical and fully electronic solutions.

When it comes to access control, mechanical components are just as important as their electronic counterparts. The Schlage ND Series provides versatility and easy installation to complete your access control system.

## Recommended applications

The wired electrified ND Series is ideal for new construction and high traffic areas where hardwired power ensures continuous operation and where electrified door prep, hinges and wiring can easily be incorporated into the building. The electrified ND Series is regularly used as part of an access control system for high security areas, or independently in areas that require a remote access switch.

## Features and benefits

- Exceeds ANSI A156.2 series 4000 Grade 1 torque requirements
- Universal input voltage – accepts 12V or 24V DC for installation flexibility
- Change operation mode between Electrically Unlocking (EU or Fail Secure) or Electrically Locking (EL or Fail Safe) by simply flipping a switch on the chassis
- Low maximum current draw allows multiple locks on a single power supply
- Low holding current produces minimal heat, eliminating "hot levers" in electrically locking applications
- Request-to-exit functionality can be easily upgraded in the field with the following kit part #: N123-062
- Extensive options for lever styles, finishes and functions
- UL listed for 3-hour fire door
- Available with Vandlgard® lever engagement on storeroom function - ideal for areas subject to abuse or vandalism

## ND Series mechanical specifications

| | |
|---|---|
| Handing | Non-handed |
| Door thickness | 1 5/8" to 2 1/8" standard including Vandlgard |
| Backset | 2 3/4" standard, 2 3/8", 3 3/4" and 5" optional |
| Faceplate | Brass, bronze or stainless steel. 1 1/8" x 2 1/4" (29 mm x 57 mm) square corner, beveled. |
| Lock chassis | Zinc plated for corrosion resistance. |
| Latchbolt | Steel, 1/2" (12 mm) throw, deadlocking on keyed and exterior functions. 3/4" (19 mm) throw anti-friction latch available for pairs of fire doors. |
| Exposed trim levers | Pressure cast zinc, plated to match finish symbols. |
| Roses | Brass or bronze. |
| Strike | ANSI curved lip strike 1 1/4" x 4 7/8" x 1 3/16" lip to center standard. |
| Cylinders and keys | 6 pin solid brass cylinder is standard with Everest 29 S123 keyway furnished as default. Furnished with 2 nickel silver keys. Additional Schlage keyways available. |
| Keying options | Available in full size interchangeable core (FSIC) and small format interchangeable core (SFIC). Also available less cylinder and less FSIC to allow for Primus XP cylinder usage. |
| Lever design and finish | All ND levers and all ND finishes available |

## ND Series electronic specifications

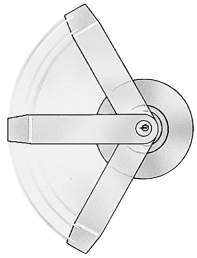
| | |
|---|---|
| Voltage | Auto-detects 12 through 24V DC operation |
| Peak current | .23 amps (230mA) |
| Holding current | 0.01 amps (10mA) |
| Operating temperature | Maximum +120°F (+49°C)<br>Minimum -32°F (0°C) |
| Micro switch electrical rating for request-to-exit (N523-194) function | 2 amps 30V DC |

## ND Series electrified functions

| | |
|---|---|
| No cylinder | ND12DEL: Electrically Locking/Fail Safe<br>ND12DEU: Electrically Unlocking/Fail Secure |
| Outside cylinder | ND80PDEL: Electrically Locking/Fail Safe<br>ND80PDEU: Electrically Unlocking/Fail Secure |
| Vandlgard | ND96PDEL: Electrically Locking/Fail Safe<br>ND96PDEU: Electrically Unlocking/Fail Secure |
| Note: See pricebook for additional details. | |

## Vandlgard®

Vandlgard trim is specifically designed for highly abusive environments. The outside lever rotates freely up and down when locked, limiting the ability of vandals to apply excessive force to the chassis.



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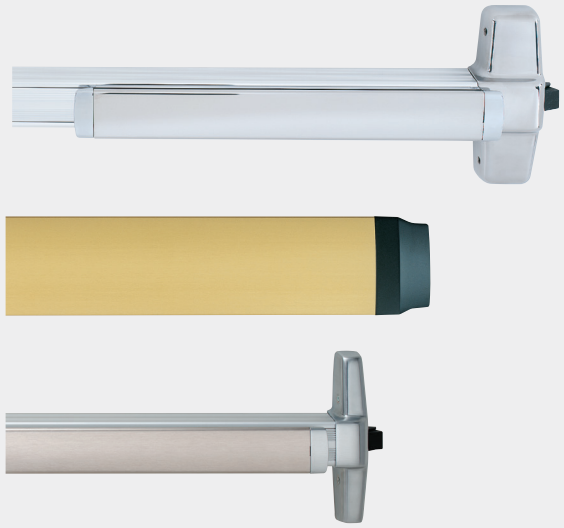
# Quiet Electric Latch Retraction-QEL

## Featuring 98/99, 94/95 and 33A/35A series exit devices



## Overview

Quiet electric latch retraction (QEL) provides electronic control of an exit device for environments where limited operational noise is desired. The QEL option is Von Duprin's solution of choice for hospitals, libraries, museums and theaters where ambient noise can be disruptive. It is available on all Von Duprin 98/99, 94/95 and 33A/35A series exit devices.

These devices always provide mechanical egress. The electrified latch retraction can also be activated by an access system or building automation system to unlatch the exit device momentarily. Often the QEL is used with a credential reader and access control system to unlock the door momentarily for authorized users.

The QEL can also be configured to electronically retract the latch for an extended period of time to allow free entry. This is a convenient alternative to mechanical dogging. If manual dogging is required, the hex dogging option is available, to order specify HD-QEL. Special center case dogging is also available for 98/99 rim and vertical systems, specify SD-QEL.

The QEL option is available on panic devices and fire rated devices. Fire rated openings have several additional requirements. They must be self latching and self closing. To satisfy these requirements the QEL must be paired with an automatic operator and under the control of an automatic fire alarm system when used on fire rated openings.

## Features and benefits

- QEL option available on all 98/99, 94/95 and 33A/35A series exit devices
- Energy efficient motorized latch retraction utilizes standard 2 amp power supply, enabling longer wire runs from power source
- Quiet operation in both mechanical and electronic states
- Modular design allows for a simplified installation
- On-board installation and troubleshooting diagnostics built into device
- Auto adjust latch retraction – automatically adjusts latch throw and pull
- Pushbar is pulled in electronically for quieter operation when dogged
- Vandal resistant – detects and responds to events of attack and tampering

## Specifications compliance

- Devices are BHMA Certified to ANSI/BHMA A156.3 (2001) Grade 1 for Exit Devices
- Devices are UL and cUL Listed as “Panic Hardware” (UL 305) and as “Fire Exit Hardware” (UL 10C)
- The QEL Conversion Kit is UL Classified under “Accessories for Single-Point Locks and Latches and Fire Exit Hardware” (UL 10C)

## Electronic specifications

| QEL electrical load | |
|---|---|
| Voltage | 24 VDC |
| Current | 1.0 A Inrush (0.5 sec)<br>0.14 A Holding |

| QEL wire run lengths | |
|---|---|
| Distance (one way) | Wire gauge |
| 200’ | 18 AWG |
| 320’ | 16 AWG |
| 500’ | 14 AWG |
| 800’ | 12 AWG |

## Accessories

The QEL has a low in rush current = 1.0 amps, so it can be used with standard Schlage power supplies. When powering multiple components, verify that the amperage requirements of all components combined does not exceed the power supply output rating, see table below for output ratings.

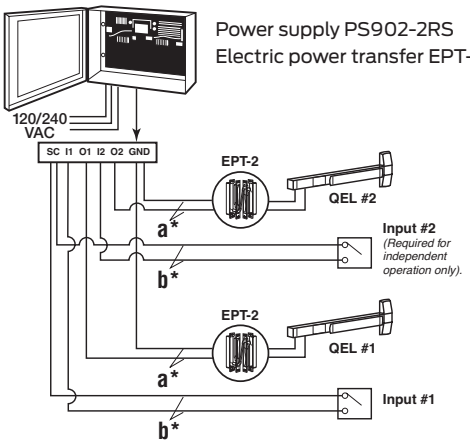
| Schlage PS902 | Schlage PS904 | Schlage PS906 |
|---|---|---|
| up to 2 amps | up to 4 amps | up to 6 amps |

The QEL device is compatible with the following equipment: PS900 Series power supplies - PS902, 904, 906, 914; 900 Series Option Boards - 900-2RS, 900-4R, 900-4RL, 900-2Q; PS873 Power Supply including 871-2, 871-2Q, 873-4TD/AO Option Boards. The power transfer is also sold separately. Please refer to Von Duprin catalog for more information on EPT-2/EPT-10 power transfers and PS900 series power supplies.

## How to order

- **Standard** – Use prefix QEL, example QEL99L.
- **Special Center Case Dogging** – Use prefix SD-QEL, example SD-QEL99L.
- **Hex Dogging** – Use prefix HD-QEL, example HD-QEL99L.

## Popular application

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# E996L, E7500

## Electrified trim, electric mortise lock

## Overview

**E996L- Electrified breakaway lever trim**
E996L Electrified Breakaway lever trim provides remote locking and unlocking capabilities while incorporating the patented Breakaway trim design.

The 24VDC solenoid can be energized from a distant controller, thus allowing access control of the opening. The control of stairwells in high-rise buildings is a common application for this trim. When electrically unlocked the unit operates as a normal lever trim. When electrically locked, the lever feels locked, but when more than 35 pounds of torque pressure is applied, the Breakaway lever feature engages.

The E996L is available in standard either in a fail safe (FS) or fail secure (FSE) condition, but can also be field converted where allowed. The trim can be ordered with a device, added to an existing 98/99 series device application, or a conversion kit can be added to an existing 996L Breakaway lever trim. On new construction applications, the E996L trim will require less door prep.

The E996L is available with a blank escutcheon (BE) function, or with cylinder operation for night latch (NL) function.

The E996 is being transitioned to the motor-driven trim solution, M996, in 2021. Please review the information for the M996 on the following pages or M996 data sheet, and consult the factory with any questions or requirements.

**E7500- Electric mortise lock**
The electric mortise lock device has all the versatility and advantages of the standard mortise lock device, plus the advantage of being electrically controlled by a remote switching device, an access control system or an automatic fire alarm system. The device features the 7500 mortise lock. The E7500 controls the locking of the outside trim. When unlocked, the door remains latched, preserving the fire rating of the door and making it particularly useful where codes permit locking but require unlocking during a fire emergency. The outside trim cylinder retracts the latch bolt for mechanical override of night latch function. Only available with TP, K or L functions.

The E7500 lock contains a SPDT signal to monitor the outside trim condition (locked or unlocked) and a second SPDT signal switch to monitor the latch bolt.

## Features and benefits

**E996L**
- Fail safe or fail secure, can also be converted in the field
- Conversion kits available to add to existing 996L trim
- Available with blank escutcheon function or cylinder operation for night latch function

**E7500**
- Field reversible handing
- 24 VDC continuous-duty solenoid
- Fail safe or fail secure optional[1]

[1] Some fire codes will require fail safe (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.

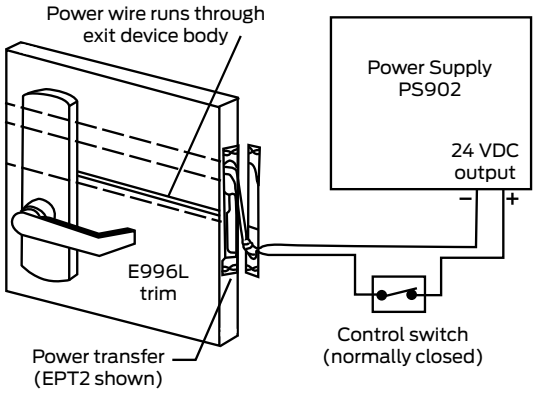
# E996L specifications

| | |
|---|---|
| Solenoid | 24VDC |
| Solenoid draw | 0.22 AMPS |

## To order, specify

Note: To order, please reference Von Duprin catalog and price book

- Use “E” prefix, example E996L
- When ordering with device specify trim series with “E” prefix, example 9927L-BE 3’ US26D E996L.
- Device type, R/V (rim/surface or concealed vertical rod) or M (mortise)
- Fail Safe (FS) or Fail Secure (FSE)
- RHR is furnished standard if not specified. Field reversible.
- Lever style (06 lever is furnished standard)
- Finish: US3, US4, US10, US10B, SP313, US26, US26D, SPBLK, US15




**E996L Electrical wiring**

- Power input for E996L is 24 VDC
- Two wires on the trim are non-polarized (18 AWG minimum)

# E7500 specifications

| | |
|---|---|
| Solenoid | .60 Amps @ 12VDC<br>.30 Amps @ 24VDC |
| Each switch | Up to 2.0 Amps @ 24CDC Maximum |

The E option does not include the power transfer from door to frame, the power supply or the control operator. (Refer to EPT-10 and PS902 or PS914 power supply)

## To order, specify

Note: To order, please reference Von Duprin catalog and price book

- Use prefix “E,” example E9975
- FS or FSE
- Voltage and current

**Standard features:**

- Field reversible handing
- 24 VDC continuous duty solenoid

**Optional features:**

- Fail safe (locked when energized, unlocked when de-energized or during power failure). Specify with suffix “FS.”
- Fail secure (unlocked when energized, locked when de-energized or during power failure). Specify with suffix “FSE.”
- 24 VAC (with SO option)
- 12 VDC
- 12 VAC (with SO option)

Note: Some fire codes will require “Fail Safe” (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.

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# M996L/L-BE

## Motor driven electrified trim

## Overview

M996L/L-BE motor driven electrified breakaway lever trim provides remote locking and unlocking capabilities while incorporating the patented vandal-resistant trim design.

The motor can be energized from a distant controller, thus allowing access control of the opening. The control of stairwells in high-rise buildings is a common application for this trim. When electrically unlocked, the lever is operable. When electrically locked, the lever is rigid.

The vandal-resistant breakaway feature engages when more than 35 lbs. of torque pressure is applied to the locked lever. In breakaway mode, the lever dangles, internal components are protected from breakage, and the trim remains locked. Lever position is restored simply by pulling up on the lever.

The trim works with either 12VDC or 24VDC power supplies. The trim also comes with a field selectable dip switch for either Fail Safe (FS) or Fail Secure (FSE) functionality - no special configuration required.

The M996 key bypass options are:

- M996L (key functions as night latch mechanical override)
- M996L-BE (no key override, blank escutcheon)

The M996 trim can be ordered with a device, added to an existing 98/99 series device application, or a conversion kit can be added to an existing 996L/996L-BE, or E996L/E996L-BE trim.

## Features and benefits

- Vandal-resistant breakaway lever
- Dual voltage - works with either 12VDC or 24VDC power supplies
- Furnished Fail Safe (FS); convertible to Fail Secure (FSE) via dip switch
- Key bypass override (M996L), or no key bypass with blank escutcheon (M996L-BE)
- Field retrofit kits work for either mechanical 996 or updating solenoid driven E996
- Available with Allegion Connect (-CON)
- Field-reversible handing

## M996L/L-BE specifications

| | |
|---|---|
| 24VDC FSA | 0.08 amp in-rush*, 0.01 amp holding |
| 24VDC FSE | 0.59 amp in-rush*, 0.01 amp holding |
| 12VDC FSA | 0.13 amp in-rush*, 0.01 amp holding |
| 12VDC FSE | 1.12 amp in-rush*, 0.01 amp holding |

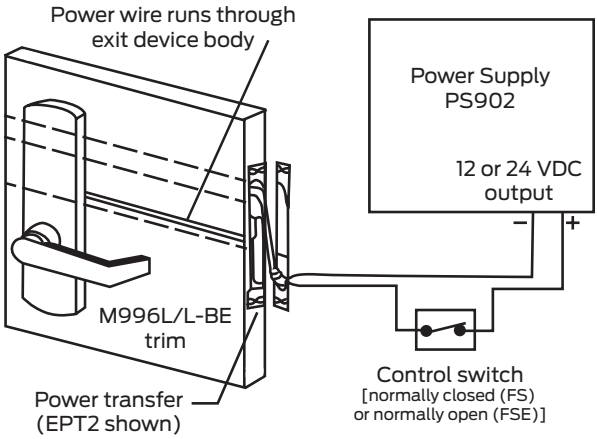
* 600mS in-rush time.

### To order, specify:

- Use “M” prefix, example M996L
- Device type: R/V (rim/surface or concealed vertical rod/cable) or M (mortise)
- Fail mode: Furnished Fail Safe (FS) only; field convertible to Fail Secure (FSE) via dip switch
- Lever style: 06 lever is furnished standard if not specified
- Handing: RHR or LHR (RHR is furnished standard if not specified; field reversible)
- Finish: 605, 606, 612, 613, 619, 622, 625, 626, 643e,693, 695
- Allegion Connect: Specify -CON if desired
- When ordering with device specify trim series with “M” prefix, example 9927L-BE 3' US26D M996L-BE
- When ordering M996 conversion kit, specify:

| Description | Part number |
|---|---|
| 996 R/V/C conversion to motorized kit | 47273111 |
| 996 Mortise conversion to motorized kit | 47273112 |

Note: For more ordering details, please reference Von Duprin catalog and price book.




## M996L Electrical wiring

- Power input for M996L/L-BE is either 12 VDC or 24 VDC
- Two wires on the trim are non-polarized (18 AWG minimum)

## Power supply requirements

**Fail secure applications:**
Maximum M996 per power supply (in-rush consideration) – no logic board case shown in chart

| Power supply | 12VDC | 24VDC |
|---|---|---|
| PS902* | 2 | 4 |
| PS904/PS914* | 4 | 8 |
| PS906 | 6 | 12 |

* Adding 4RL board sequencing allows additional M996 per power supplies.

**Fail safe applications:**
Total in-rush of all M996 not to exceed power supply maximum current.

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# Delayed egress systems

## CHEXIT, RCM & DE5300

98/99 Series CHEXIT

33A/35A Series CHEXIT

RCM/DE5300

## Overview

The Von Duprin® CHEXIT is a delayed egress option available on all 98/99, XP98/99 and 33A/35A series exit devices. It is commonly used in behavioral health, memory care, and maternity applications to prevent patient abduction or elopement and in retail stores for asset protection. All control inputs, auxiliary locking, local alarm and remote signaling outputs are self-contained. The CHEXIT can easily be integrated with access control, fire prevention and infant protection systems.

The standard CHEXIT device sounds an alarm and keeps the door secured for 15 seconds following an exit attempt with immediate release upon fire alarm. Numerous configurable settings allow the CHEXIT to be customized based on specific application or code requirements.

Recently updated, the improved design of the CHEXIT makes installation and maintenance easier. The new motor driven blocking actuator is quiet and energy efficient, with an input current of only 1.25 amps and wire run up to 500 feet from the power transfer to power supply (14 AWG). Additional options were added including indefinite release delay to address 2015 IBC requirements for controlled egress.

The Remote CHEXIT Module (RCM) provides the same functionality for smaller door sizes by placing electronic components in a control box. Likewise, the DE5300 utilizes a control box, RX-LX low current request to exit panic device and a Schlage direct hold electromagnetic lock.

## Features and benefits

- Available on all 98/99, XP98/99 and 33A/35A series exit devices
- Redesigned for easy and cost effective installation and maintenance
- Motor driven blocking actuator provides quiet and energy efficient operation
- Flexible field configurable functions, including: nuisance delay 0, 1, 2 or 3 seconds, audio sound level high/low, power up setting armed/disarmed
- Trim actuator/input for outside trim connection with selectable fail safe/secure setting
- Secure status relay output
- RCM and DE5300 available to accommodate a variety of door configurations and applications
- UL 294 Listed and meets 2015 IBC 1010.1.9.7 Delayed Egress and 1010.1.9.6 Controlled Egress and NFPA 7.2.1.6 Special Locking Arrangements

# CHEXIT device

**(with motor driven blocking actuator)**

**Available for 33A/35A, 98/99 and XP98/99 Series devices**

The Von Duprin CHEXIT device is designed for controlled egress applications. It is UL 294 listed and meets 2015 International Building Code (IBC) sections 1010.1.9.7 Delayed Egress and 1010.1.9.6 Controlled Egress and National Fire Protection Associations (NFPA) sections 7.2.1.6 Special Locking Arrangements. All control inputs, auxiliary locking, local alarm and remote signaling outputs are self-contained in the CHEXIT assembly. Numerous configurable options allow the device to be customized for the specific code or application requirements. The standard CHEXIT device sounds an alarm and keeps the door secured for 15 seconds following an exit attempt with immediate release upon fire. Included with each device is a 6" x 20" decal for application on the door reading "PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS".

## Minimum door opening sizes for CX devices

Consult factory for other size requirements.

| Device | 3' (914mm) Length | 4' (1219mm) Length |
|---|---|---|
| CX33A/35A | 2'10 ¾" (883mm) | 3'4 ¾" (1035mm) |
| CX3327A/3327A-F/3527A/3527A-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |
| CX3347A/3347A-F/3547A/3547A-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |
| CX3348A/3348A-F/3548A/3548A-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |
| CX3349A/3349A-F/3549A/3549A-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |
| CX3350/3350WDC-F/ 3550/3550WDC-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |
| CX98/98-F/99/99-F | 2'10 ¾" (883mm) | 3'4 ¾" (1035mm) |
| CX-XP98/XP98-F/XP99/XP99-F | 2'10 ¾" (883mm) | 3'4 ¾" (1035mm) |
| CX9827/9827-F/9927/9927-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |
| CX9847/9847-F/9947/9947-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |
| CX9848/9848-F/9948/9948-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |
| CX9849/9849-F/9949/9949-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |
| CX9850/9850WDC-F/ 9950/9950WDC-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |
| CX9857/9857-F/9957/9957-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |
| CX9875/9875-F/9975/9975-F | 2'10 ¼" (870mm) | 3'4 ¼" (1022mm) |

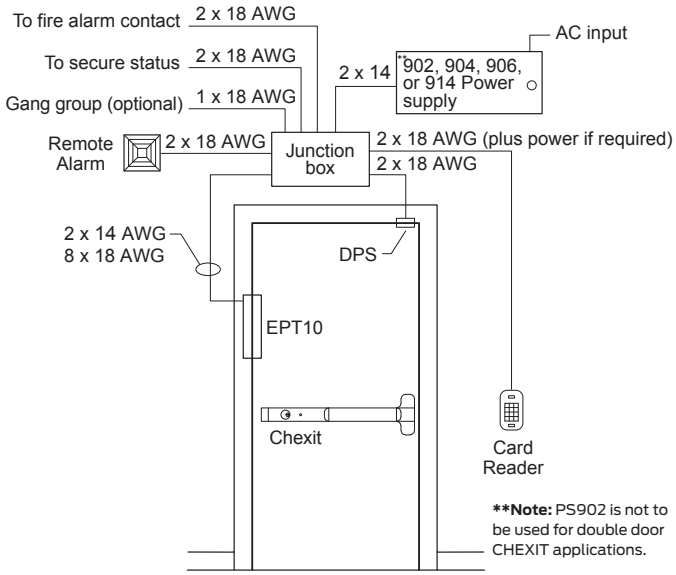



Figure 1. Riser Diagram, Single Door

## Electrical specifications
## Specifications / Power requirements*

| |
|---|
| Input voltage – 24VDC |
| Input current inrush – 1.25A |
| Input current holding – 390mA |
| Alarm relay and Secure relay contact ratings – 24VDC, 1A |
| Fire alarm, Inhibit and Door position switch inputs require normally closed dry contacts. |

## Power supply information for CX devices with motor driven blocking actuator*:

| Power supply | Maximum number of devices* |
|---|---|
| PS902 (up to 2 amps) | 1 CHEXIT device |
| PS904 (up to 4 amps) | 3 CHEXIT devices |
| PS906 (up to 6 amps) | 4 CHEXIT devices |
| PS914 (up to 4 amps) | 4 CHEXIT devices |

When powering multiple components, verify that the amperage requirements of all components combined does not exceed the power supply output rating. Consult Installation Instructions for proper wire gauge and wire run requirements. Exceeding the recommended devices and/or not following Installation Instructions may void your warranty. For more information call Customer Care at 877-671-7011.

## How to order*

1. Prefix product description number “CX”. Ex: CX99L
2. Specify option. Ex: CX-RCM or CD-CX
3. Door size other than 3' (914mm).
4. Door thickness other than 1 ¾" (45mm).
5. Finish.
6. Handing, LHR or RHR. Required with “CD” option.

*Note: The information listed in these pages reference the power supply and operating requirements for the redesigned CHEXIT with motor driven blocking actuator that launched August 24, 2015. For information on devices built previous to August 24, 2015, please contact Customer Care at 877-671-7011.

# RCM Remote Chexit Module

Designed to provide the concept of the Chexit delayed exit system for door sizes smaller than the standard device can accommodate. The Chexit module is installed in a control box and mounted in a remote location. Features and functions of the standard Chexit exit device are available on the RCM.

## Minimum door opening sizes for RCM devices

Consult factory for other size requirements.

| Device | 3' (914mm) Length | 4' (1219mm) Length |
|---|---|---|
| CX-RCM33A/35A | 2'5" (737mm) | 2'11" (889mm) |
| CX-RCM3327A/3327A-F /3527A/3527A-F | 2'4 ½" (724mm) | 2'10 ½" (876mm) |
| CX-RCM3347A/3347A-F /3547A/3547A-F | 2'4 ½" (724mm) | 2'10 ½" (876mm) |
| CX-RCM3348A/3348A-F /3548A/3548A-F | 2'4 ½" (724mm) | 2'10 ½" (876mm) |
| CX-RCM3349A/3349A-F /3549A/3549A-F | 2'4 ½" (724mm) | 2'10 ½" (876mm) |
| CX3350/3350WDC-F/ 3550/3550WDC-F | 2'4 ½" (724mm) | 2'10 ½" (876mm) |
| CX-RCM 98/98-F/99/99-F | 2'5" (737mm) | 2'11" (889mm) |
| CX-RCM XP98/XP98-F/XP99/ XP99-F | 2'5" (737mm) | 2'11" (889mm) |
| CX-RCM 9827/9827-F/9927/9927-F | 2'4 ½" (724mm) | 2'10 ½" (876mm) |
| CX-RCM 9847/9847-F/9947/9947-F | 2'4 ½" (724mm) | 2'10 ½" (876mm) |
| CX-RCM 9848/9848-F/9948/9948-F | 2'4 ½" (724mm) | 2'10 ½" (876mm) |
| CX-RCM 9849/9849-F/9949/9949-F | 2'4 ½" (724mm) | 2'10 ½" (876mm) |
| CX-RCM 9850/9850WDC-F/ 9950/9950WDC-F | 2'4 ½" (724mm) | 2'10 ½" (876mm) |
| CX-RCM 9857/9857-F/9957/9957-F | 2'4 ½" (724mm) | 2'10 ½" (876mm) |
| CX-RCM 9875/9875-F/9975/9975-F | 2'5 ½" (743mm) | 2'11 ½" (902mm) |

## Specifications / Power requirements*

Size – 3.75" x 5.57" x 2.50"

Input voltage – 24VDC

Input current inrush – 1.25A

Input current holding – 390mA

Alarm relay and Secure relay contact ratings – 24VDC, 1A

Fire alarm, Inhibit and Door position switch inputs require normally closed dry contacts.

## How to order

See Chexit “How to order” on previous page.

*Note: The information listed in these pages reference the power supply and operating requirements for the redesigned RCM modules with motor driven blocking actuator that launched August 24, 2015. For information on devices built previous to August 24, 2015, please contact Customer Care at 877-671-7011.

# DE5300 Delayed Egress System

**DE5300 Delayed Egress System** — Designed for controlled egress applications when used in conjunction with a magnetic lock. It meets both life safety and security needs, as well as the requirements of NFPA for "Special Locking Arrangement" and IBC "Special Egress-Control Devices". All control units, auxiliary locking, local alarm and remote signaling outputs are self-contained in the DE5300 assembly.

The DE5300 is commonly used on narrow stile doors where a standard or narrow stile Chexit is not practical. DE5300 Delayed Exit System uses a Chexit logic board and a Von Duprin RX-LC (low current request to exit) panic device to control a Schlage Electronics Direct Hold Magnetic Lock.

The Chexit module for the DE5300 is installed in a control box and mounted in the wall adjacent to the door. Features and functions of the standard Chexit exit device are available on the DE5300.

## Specifications / Power requirements*

Size - 3.75" x 5.57" x 2.50"

Input voltage – 24VDC

Input current – 1A

Alarm relay and Secure relay contact ratings – 24VDC, 1A

Fire alarm, Inhibit and Door position switch inputs require normally closed dry contacts.

## How to order

1. DE5300
2. M420/P, M450/P, or M490/P magnetic lock (order direct from Schlage Electronics).
3. RX-LC 22/33A/35A/98/99 device.
4. PS900 Series
5. EPT-2/10

# CHEXIT, Remote Chexit Module (RCM) and DE5300 features

The Chexit, RCM and DE5300 devices have several features and options available to fit your needs.

## Inputs & Outputs

**Fire Alarm Input**
Releases the door immediately upon a fire alarm allowing immediate egress. The Internal Alarm can be silenced during a fire input via an onboard switch setting.

**Inhibit Input (Access Control)**
Optional input provides authorized egress or entry when the device is Armed using an external card reader, Key Switch, etc. Also allows remote reset of the Chexit, RCM or DE5300 in an alarmed condition. The ability to reset alarms with the inhibit input can be disabled via an onboard switch setting.

**Door Position Switch Input**
An optional DPS can provide door position status additional security, ensuring that the door is closed, and can cause alarm when the door is left or forced open.

**Gang Bus**
The Gang bus allows a device to signal other Chexit, RCM or DE5300 devices when it enters the Release Delay, allowing multiple doors to release at the same time in an emergency. Up to 8 devices may be connected to the Gang Bus.

**Alarm Relay Contacts**
Control a Remote Alarm, such as a horn or lamp, or signal an external monitor. The contacts can be configured with a jumper as Normally Open or Normally Closed, and become active upon entering an alarmed condition.

**Secure Relay Contacts**
Signal an external monitor. The contacts can be configured as Normally Open or Normally Closed with a jumper, and become active when the DPS indicates the door is closed and the Push Pad is locked.

## Delays

**Release Delay**
When the Push Pad is actuated and the Nuisance Delay expires, the device enters the Release Delay with alarm. During the Release Delay, the Internal Alarm sounds, the Alarm Relay activates, and the device remains locked for 15 seconds (less any time already elapsed during the Nuisance Delay). Once started, the Release Delay sequence will not stop and the devices will unlock.

**Nuisance Delay**
The Nuisance Delay is the brief time a Push Pad can be accidently actuated before the Release Delay sequence starts. If the Nuisance Time is set to 0 seconds the device will enter Release Delay as soon as the Push Pad is actuated (when armed). Setting the Nuisance Time to 1, 2, or 3 seconds allows the Push Pad to be pressed for 1 to 3 seconds before the device goes into Release Delay. If the Nuisance Audio and Nuisance Delay are both on, the Internal Alarm will pulse during the Nuisance Delay. The Alarm Relay does not activate during the Nuisance Delay. If the Push Pad is released before the Nuisance Delay expires, the device will remain armed.

**Rearm Delay**
The amount of time after the Key Switch or Inhibit Input is deactivated to when the device rearms. It is designed to give someone time to pass through the door before rearming occurs. The Rearm Time can be changed via the onboard switch settings from 0 and 28 seconds in 2 second increments. If the Rearm Time is set to 30 seconds and a DPS is used, if the door is opened and the Rearm Time expires, there will be no alarm. The device will rearm after the door is closed. If the door never opens, the device will rearm after 30 seconds. If not using a DPS, the device will always rearm in 30 seconds.

**DPS Delay**
If the DPS detects that the door closed during the Rearm Delay, the device ends the Rearm Delay and allows 2 seconds for the latch to clear the strike before rearming.

## Interface

**Key Switch**
Provides the means to Arm or Disarm/Reset the device. Turning the Key Switch clockwise initiates the Rearm Delay, and turning the Key Switch counter-clockwise Disarms/Resets the device. The Key Switch allows the key to be removed in either the Arm or the Disarm/Reset position.

**Status Indicator**
The red Status Indicator flashes slow if the device is armed, flashes fast in an alarmed mode, is off when inhibited and on solid during Rearm Delay.

**Internal Alarm**
The Internal Alarm sounds continuously during and after a fire alarm or a Release Delay, pulses fast during the Nuisance Delay or a tamper and pulses slow during Disarmed Powerup mode.

## Settings

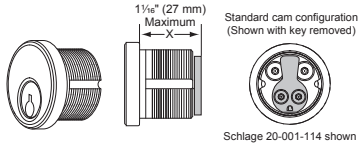
**Armed Powerup**
When set to OFF, a power disruption and power return will put the device in a disarmed, unlocked alarm mode.

**Trim Fail Safe / Fail Secure (FS/FSE)**
The trim input power can be set to FS (Fail Safe; locked when energized, unlocked when deenergized or during power failure) or FSE (Fail Secure; unlocked when energized, locked when deenergized or during power failure). The trim must be bought or modified to physically function as FS or FSE. This on board setting only selects the trim input power.

## Options

**Cylinder dogging** — Special center case cylinder dogging option is available to allow push/pull operation of the Chexit, when disarmed and used in a heavy traffic area. Prefix device with “CD” and specify handing.

**Cylinders** — Cylinders are not furnished with the Chexit, RCM or DE5300 devices and must be specified when ordering. Use 11/4” mortise cylinder with compression ring K510-406 with straight cam and orient cam as shown. Schlage cylinder 20-001-114 recommended for the device and the CD cylinder dogging option.
See Schlage Pricebook for additional information.




## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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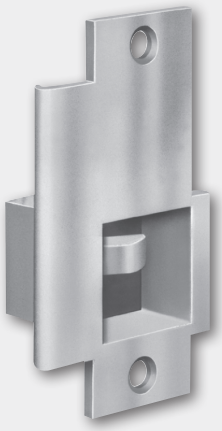
# Monitor strikes



## Overview

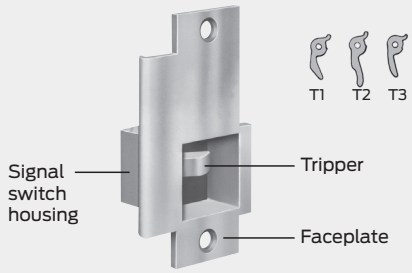
Monitor strikes are designed to offer remote door monitoring through the use of a signal switch mounted in the strike to monitor the latch bolt. This series of monitor strikes is designed for use with Von Duprin and most other manufacturers' rim, mortise, surface and concealed vertical rod exit devices and cylindrical, mortise and unit type locks.

The monitor strike replaces the standard door strike. The tripper in the monitor strike is depressed when the latch bolt is fully inserted in the strike. The stainless steel tripper activates an electric switch.

## Features and benefits

- UL listed as "miscellaneous door accessory"

# Monitor strike overview




## Monitor strike electrical rating

| | |
|---|---|
| SPDT switch (single pole double throw) | 24VDC @ 2 Amps (resistive) |

Note: Tripper selection is based on the throw and shape of the latch bolt.

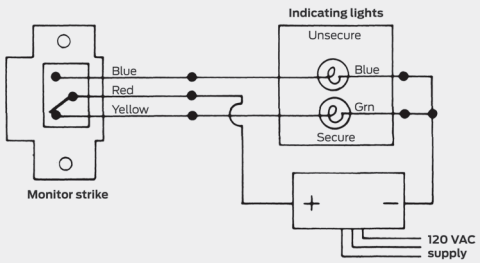
## Model specifications

| Model # | 4263 | 4268-T1 | 4582 |
|---|---|---|---|
| Lockset | Rim or surface vertical rod exit devices | Rim fire exit devices | Mortise or cylindrical locks |
| # Doors | Single or pair | Single or pair | Single or pair |
| Compatibility (with tripper type) | Von Duprin 22, T3<br>2227, T1<br>33A/35A, T3<br>3327A/3527A, T3<br>44, T1<br>55, T1<br>88, T1<br>8827, T1<br>98/99, T3<br>9827/9927, T1<br>Monarch Rim, T3 (3/4" [19mm] throw)<br>Yale® 1500, T1 (5/8" [16mm] throw) | Von Duprin 22/22-F<br>33A/35A<br>88/88-F<br>98/99<br>98-F/99-F | Schlage 3/4" (19mm) Cyl., T2<br>L90, T2<br>Falcon 5/8" (16mm) ML (LR), T2<br>Arrow™ 5/8" (16mm) ML (LR), T1<br>Corbin Ruswin® 5/8" (16mm) ML (LR)<br>5999 ML (LR), T2<br>Yale® 5/8" (16mm) ML (LR), T2 |
| Certifications | | UL list (GXHX R4504) fire exit hardware | UL List (GXHX R4504) fire exit hardware |
| Application notes | 1 | 2 | 3 |

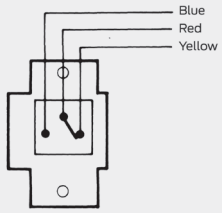
**Application notes:**

1. The 4263 is non-handed and features horizontal adjustment to compensate for misalignment of door and frame. 4263 may be used with a mullion. Tripper selection (-T1 or -T3) is based upon the lock to be used with.
2. The 4268 features horizontal adjustment to compensate for misalignment of door and frame. 4268-T1 is not for use with mullions.
3. For use on single or pair of doors with ANSI 115.3 frame cutout (frame modification required.) Tripper selection (-T1 or -T2) is based upon the lock to be used.

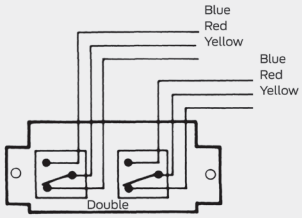
# Basic monitor strike circuit




Power supply same voltage as lamps with sufficient current capabilities




Switch shown in secure position




Switch shown in secure position

## Model specifications

| Model # | 4570-T1 | 4670-T1 | 4690-T2 | 4690-1-T2 |
|---|---|---|---|---|
| Lockset | Cylindrical locks | Cylindrical locks | Concealed vertical rod exit devices | Concealed vertical rod exit devices |
| # Doors | Single or pair | Single or pair | Wide stile pair of doors | Narrow stile pair of doors |
| Compatibility (with tripper type) | Schlage 1/29" (13mm) Cyl. 5/89" (14mm) Cyl<br>Falcon 1/29" (13mm) Cyl. 9/169" (14mm) Cyl.<br>Adams Rite® 4510 8400<br>Arrow™ 1/29" (13mm) Cyl.<br>Best® 9/169" (14mm) Cyl.<br>Corbin Russwin® 5/89" (16mm) Cyl.<br>Dexter® 7/169" (11mm) Cyl.<br>Kwikset® 1/29" (13mm) Cyl.<br>Precision™ 1040 Automatic Flush Bolt[1]<br>Sargent® 1/29" (13mm) Cyl.<br>Yale® 1/29" (13mm) Cyl. | Schlage 1/29" (13mm) Cyl. 5/89" (14mm) Cyl.<br>Falcon 1/29" (13mm) Cyl. 9/169" (14mm) Cyl.<br>Adams Rite® 4510 8400<br>Arrow™ 1/29" (13mm) Cyl.<br>Best® 9/169" (14mm) Cyl.<br>Corbin Russwin® 5/89" (16mm) Cyl.<br>Dexter® 7/169" (11mm) Cyl.<br>Kwikset® 1/29" (13mm) Cyl.<br>Precision™ 1040 Automatic Flush Bolt[1]<br>Sargent® 1/29" (13mm) Cyl.<br>Yale® 1/29" (13mm) Cyl. | Von Duprin 3347A-F 3347A 9947 9947F | Von Duprin 3347A |
| Certifications | | | UL list (GXHX R4504) fire exit hardware | |
| Application notes | 1 | 2 | 3 | 4 |

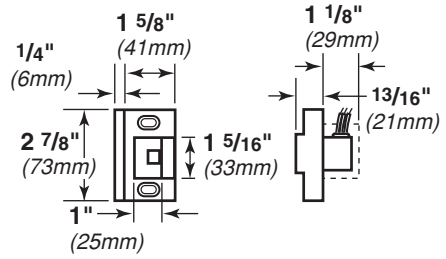
1 Special template required

**Application notes:**

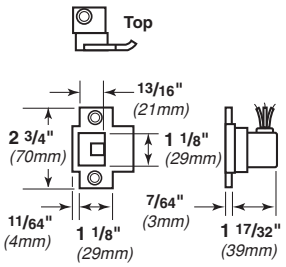
1. For use on single or pair of doors with ANSI 115.2 frame cutout (frame modification required.) 4570-T1 is only used with T1.
2. For use on single or double doors with ANSI 115.3 fame cutout (frame modification required.) 4670-T1 is only used with T1.
3. For use with pair of doors where one leaf has concealed vertical rods. 4690-T2 is only used with T2.
4. For use with pair of doors where both leaves have concealed vertical rods. 4690-1-T2 is only used with T2.

# Dimensions

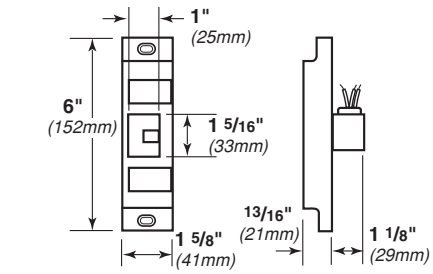
### 4263



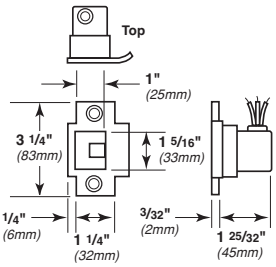

### 4670-T1



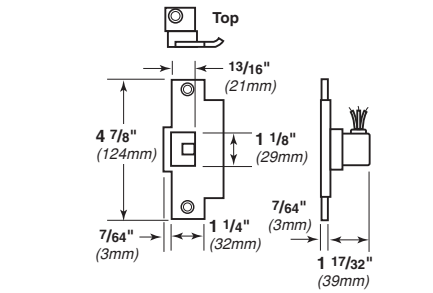

### 4268-T1



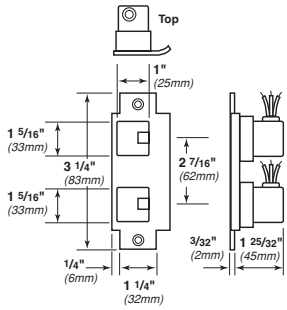

### 4690-T2



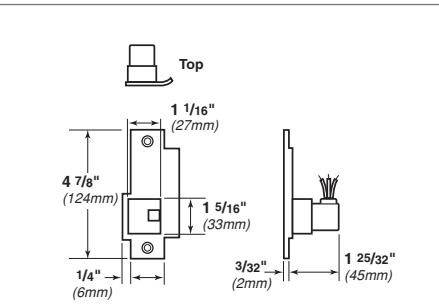

### 4570–T1




### 4690–1–T2




### 4582




## To order, specify

- Model
- Tripper T1, T2 or T3
- Handing required on model 4582
- Specify LHR or RHR
- Finish: US3, US4, US10, US10B, US26, US26D

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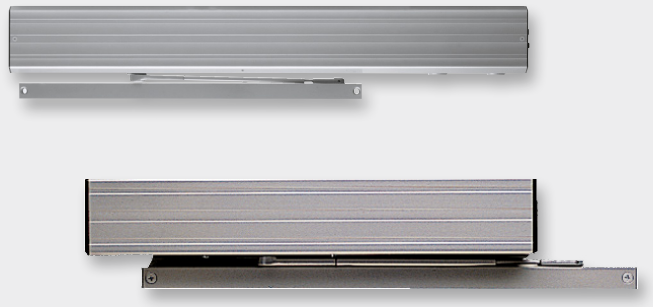
LCN

# Electrohydraulic automatic operators



## Overview

LCN's electrohydraulic automatic operators integrate the 4000 Series mechanical closer to provide a smooth and easy manual opening experience for preliminary manual use applications. When activated, the door works as a fully functional low energy automatic operator to increase accessibility.

The low energy electric Auto Equalizer 4600 Series utilizes LCN's 4040XP mechanical closer to increase product life when the door is primarily used manually. When activated, a motor/clutch system drives the manual closer to automatically open the door.

The low energy pneumatic Auto Equalizer 4800/2600 Series provides quiet, smooth and reliable door operation and allows for use in hazardous locations where electronically operated devices are not permitted.

## Features and benefits

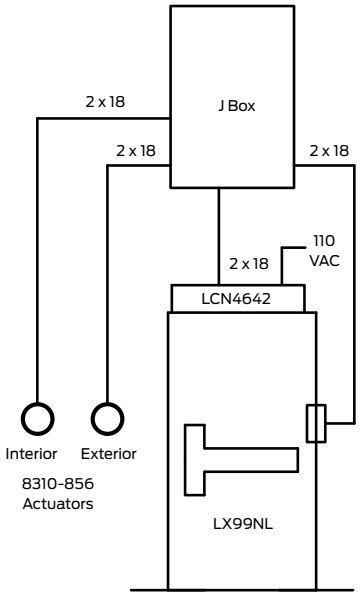
- UL Listed for self-closing doors without hold open under "Swinging door closers"
- Tested and certified under ANSI Standard A156.19
- ANSI Standard A117.1
- Electric Auto Equalizer has a no-destruct feature that allows clutch to slip when abused to reduce damage to the operator
- Digital control suite in electric Auto Equalizer has on-board diagnostics to ensure easy, trouble-free installation
- Pneumatic Auto Equalizer has easily adjustable air pressure and timing cycle to meet the needs of a specific installation
- Pneumatic Auto Equalizer is available in four different mounting configurations

| Features | 4600 Series | 4800/2600 Series |
|---|---|---|
| Handed | No | No; Yes (2610) |
| Mounting options | Push (4640)<br>Pull (4630) | Push (4820)<br>Pull (4810)<br>Parallel arm (4840)<br>Concealed (2610) |
| On board power supply | Yes | No |
| Digital control box | Yes | No |
| Header length | 33 ½" | 20" |
| Maintains memory after power loss | Yes | Yes |
| Adjustable manual open face | Yes | Yes |
| Blow open capability | No | Yes |
| Meets UL requirements | UL/cUL 325 and 228 | – |

All electrohydraulic operators are available in seven standard or 150+ custom powder coated finishes.

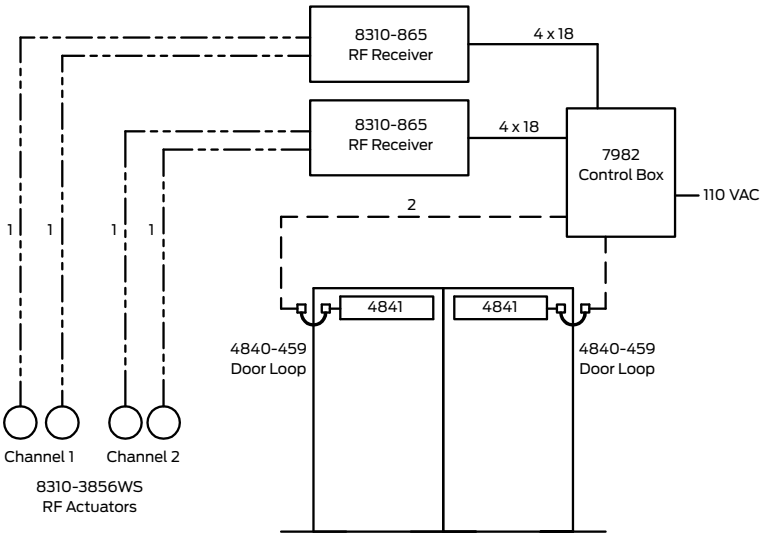
# Sample common applications

## Exterior retail entrance




Operation: When panic device is mechanically dogged both interior and exterior actuators will be enabled through LX switch. When device is undogged actuators will not function.

## Church/library entrance




Operation: Doors normally closed, not latched. Two 8310-3856WS actuators to independently signal each door to swing.

[1] Dashed/dotted lines indicate RF signal, not a wiring connection.
[2] Dashed lines indicate pneumatic 925 tubing.

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LCN®

# Electromechanical automatic operators

## Overview

The LCN® electromechanical automatic operators are designed for durability and extended performance when used in primarily automatic applications. The electromechanical gearbox acts as a manual closer when the door is not automated or power is lost.

The low energy electromechanical Senior Swing (2800 and 9500 Series) is LCN's toughest operator—designed specifically for medium to heavy duty use in mostly automated applications. The Senior Swing offers a digital control suite that provides precise control of a large range of built-in functions.

The low energy Benchmark operator (9100 Series) is designed for low to medium use commercial applications, also for primarily automated applications. With its slim design, the Benchmark is great for interior door applications when aesthetics are a concern.

## Features and benefits

- UL Listed for self-closing doors without hold open, UL 325
- Tested and certified under ANSI 156.19
- ADA compliant
- Opening time from full close to backcheck is no faster than 3 seconds
- Less than 15 lbs. to open door manually
- On-board power supply (24VDC output) to power card readers, actuators and safety circuits

| Features | 2800 Series | 9500 Series | 9100 Series |
|---|---|---|---|
| Handed | Yes | Yes | No |
| Mounting options | Concealed<br>2810 (Single)<br>2850 (Sim. Pair)<br>2860 (Ind. Pair) | Surface<br>9530 (Push/Single)<br>9540 (Push/Single<br>9550 (Sim. Pair)<br>9560 (Ind. Pair) | Surface<br>9130 (Pull)<br>9140 (Push)<br>9150 (Sim./Ind. Pair) |
| On board power supply | Yes | Yes | Yes |
| Digital control box | Yes | Yes | No |
| Header length | Variable- See LCN catalog | 36" - 49" (single)<br>72" - 98" (double) | 27" or 36" (single)<br>72" (double) |
| Maintains memory after power loss | Yes | Yes | Yes |
| Push 'n go | Yes | Yes | Yes |
| Power Boost | Yes | Yes | Yes |
| Simultaneous pair with single control box | Yes | Yes | No |
| Meets UL requirements | UL 325/228 | UL 325/228 | UL 325/228 |

All electromechanical operators are available in aluminum and dark bronze finishes.

## Electrical data

2800, 9500 Series

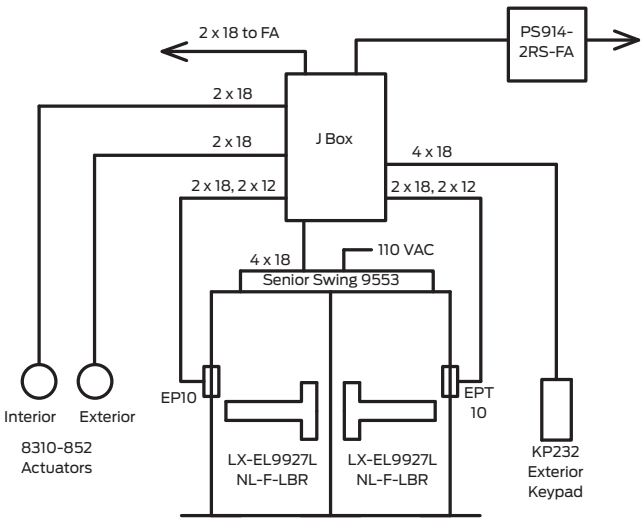
- 120 VAC 60Hz input at 2.5 AMPS (2800 and 9500 Series)
- 240 VAC 50/60 Hz at 2.5 AMPS (2800 and 9500 Series)
- 24 VDC output at 1.5 AMPS (protected by self-resetting thermal fuse)

9100 Series

- 120 VAC 60Hz input at 1 AMPS
- 24 VDC output at 2.5 AMPS

# Sample common applications

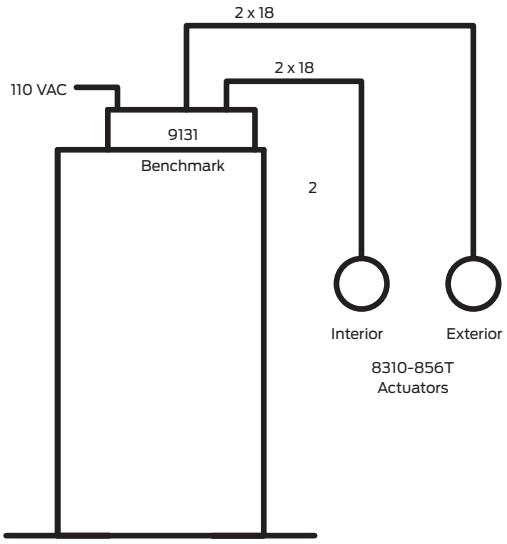
### Secure hospital hallway




Operation: KP232 keypad exterior to signal EL latch retraction and enable exterior actuator through LX switches in panic device. Interior actuator always active.

Fire alarm to extend EL latch and disable automatic operator.

### Restroom doors




Operation: No latching at this door. For a single occupancy restroom. Either actuator will open door at any time.

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LCN

# Fire/life safety closers/holders series

## Overview

Sentronic Series LCN closers/holders combine heavy duty closers with electrically controlled hold-open functions to control fire and smoke barrier doors. Automatic detection and containment of fire and smoke are the best ways to minimize danger to life and property. Patented Sentronic door closer/holders are designed to hold swinging doors open in normal use then release and automatically close the doors under fire conditions. These products integrate into your complete fire and life safety system.

LCN's fire/life safety closers/holders series includes:

- SE Series - offers adjustable single-point hold-open function controlled by solenoid assembly located in the SE track
- ME Series - offers infinitely adjustable, multi-point hold-open function controlled by solenoid on the cylinder assembly
- SEM Series - Electromagnetic door holders work with manual door closer to provide single-point hold-open
- HSA Series - Best suited for high traffic emergency doors, this product provides easy passage for groups of pedestrians through high traffic doors with electronically controlled closer/holder

## Features and benefits

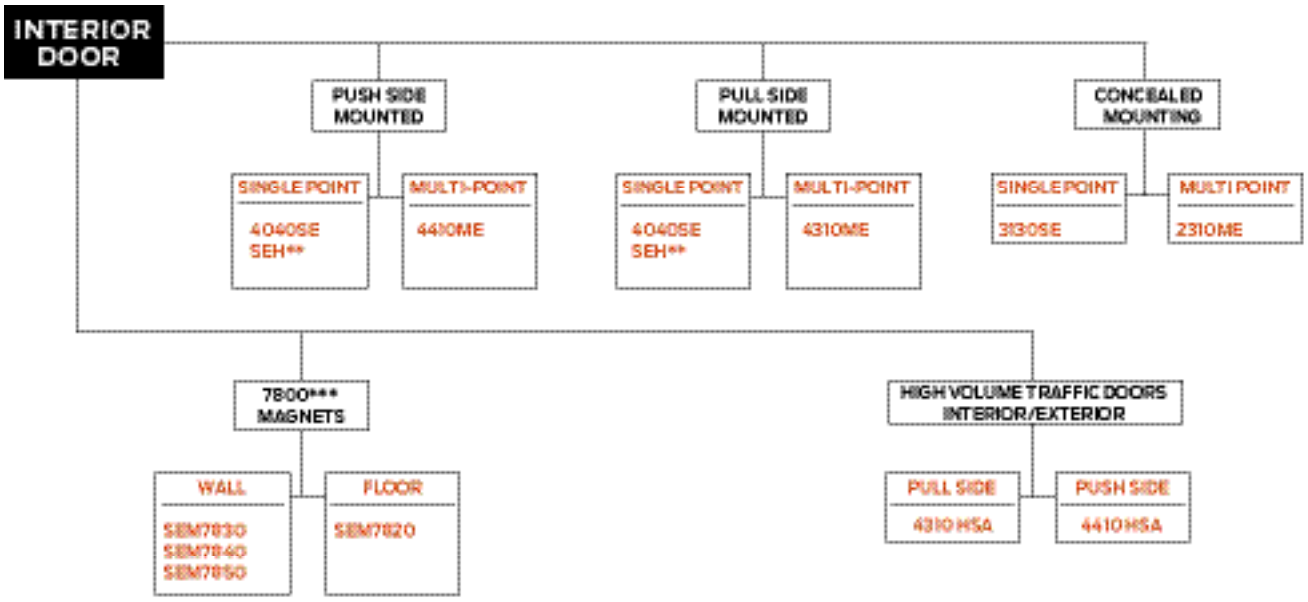
- Conforms to NFPA 101 and ANSI 156.15
- 24V AC/DC or 120V AC input
- When current is interrupted, hold-open releases and door closes
- Adjustable hydraulic backcheck cushions opening swing prior to 90°
- Separate regulation of general closing speed and latching speed
- Available in wide range of powder coated finishes to blend with door and frame (SEM magnets available in aluminum and dark bronze only)
- Circuit automatically handles AC or DC input
- Can be pushed safely and easily out of hold-open
- Functions as full rack and pinion door closer when hold-open is not engaged or current is interrupted
- High strength cast iron cylinder
- Forged steel main arm and piston
- All weather fluid

## Holding solenoids current draw

SE/ME
- 24V AC/DC (+10% - 15%) at 90 mA maximum
- 120V AC/DC (+10% - 15%) at 30 mA maximum

SEM (tri-volt)
- 12V DC (+10% - 15%) at 30 mA maximum
- 24V AC/DC (+10% - 15%) at 20 mA maximum
- 120V AC/DC (+10% - 15%) at 20 mA maximum

HSA
- 24V AC/DC (+10% - 15%) at 120 mA maximum




** See SEH section (cylinder not included).
*** SEM 7800 Series are die cast.

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LCN

# Actuators and sensors

## Overview

LCN actuators and sensors are designed to be used with LCN automatic operators. The desired function, traffic patterns and physical design of the opening will determine the type of actuator used.

Safety and activation sensors are designed to protect pedestrians and help prolong the life of an automatic operator. LCN safety sensors can be used on all automatic operators.

LCN also offers a full line of activation device accessories, including surface and flush mounted boxes, weather rings, escutcheons, wireless transmitters and receivers (1 channel), key chain activation devices (up to 4 buttons), sequencers, and a bollard post (used with 4 3/4" square actuator.)

## Features and benefits

- Complies with ANSI 156.19
- Can be ordered individually or in kits that combine common products for a specific application
- Beveled edges provide a tamper and vandal resistant solution to push plate needs, allowing no room for objects to get between plate and mounting box
- An all-active plate activates with any “push” location
- Stainless steel finish will not deteriorate or rust where it is touched — scratch and scuff resistant
- All activation push plates are available with ADA logo art and text or with ADA logo art only
- Text and ADA Compliant logo art are baked onto the surface for added durability
- Active-style wheelchair push plates now available

# Stainless steel push plates

Round push plates

6" Round style push plate

4 ½" Round style push plate

Square push plates

4 ¾" Square style push plate

Jamb push plates

Jamb style push plate

Dual jamb style push plate

# Ready mount actuators

6" Slim profile push plate

4 ¾" Square style push plate

36" x 6" Full length actuator

# Touchless actuators

8310-810R

8310-813R

8310-815

8310-816R

# Sensors

Door mount
Safety sensor

Header mount
Safety sensor

Monitored Safety Sensor Kit

# Actuator accessories

LCN offers a full line of activation device accessories, including: surface and flush mounted boxes, weather rings, escutcheons, wireless transmitters and receivers (1 channel), key chain activation devices (up to 4 buttons), sequencers, and a bollard post (used with 4 ¾" square actuator)

Mounting boxes

Weather rings

Bollard post

Wireless transmitters/receivers

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SCHLAGE®

# Readers

This section of the Electronic Access control catalog covers Schlage mobile enabled multi-technology, multi-technology, smart, proximity, keypad and enrollment readers and accessories.

## Mobile enabled multi-technology readers

Schlage mobile enabled multi-technology readers are designed to simplify your access control solutions and eases the transition from an existing proximity system to a secure encrypted card technology or mobile solution at your own pace -- without having to change readers. Models are available to fit any need and operate with multiple credential form factors including wristbands, cards, fobs and tags.

- **MTB11:** Mobile enabled; Mullion mount
- **MTB15:** Mobile enabled; Single gang mount
- **MTKB15:** Mobile enabled; Single gang mount with keypad
- **MT15:** Single gang mount
- **MTK15:** Single gang mount w/ keypad
- **MTMS15:** Magnetic Stripe Reader Wall Mount
- **MTMSK15:** Magnetic Stripe Reader Wall Mount with Keypad
- Schlage multi-technology readers contain NFC, 125 kHz proximity and 13.56 MHz contactless smart card capability in one-unit handling multiple formats simultaneously; mobile enabled models can also read 2.4 GHz mobile credentials
- Wiegand and RS-485 output available for simple interface with most access control panels
- Compatible with NFC-open smart devices
- Limited lifetime warranty
- See datasheet for additional features

## Smart readers

- The Schlage SM10 mini-mullion smart reader is one of the most secure readers in the industry. Instead of using open transmission protocols, the SM10 smart card reader utilizes high security data. Each message between the card and the reader is digitally signed using message authentication coding (MAC) to ensure the integrity of the data.
- In addition, smart reader technology can be used in applications such as logical access, cashless vending and cafeteria services.

## Proximity readers

Schlage's low-frequency proximity reader is an approachable solution that integrates seamlessly with access control systems. Schlage's proximity readers are sleek, compact and provide a cost-effective option for applications requiring lower security. The mini-mullion design makes the readers ideal for installation in tight spaces. The PR10 recognizes most industry leading 125 kHz proximity credentials and can be easily integrated into existing legacy proximity systems.

- PR10: Mini-Mullion Mount
- Reads 125 kHz proximity credentials
- Wiegand output for simple interface with most access control panels
- LED (red, green or amber) visual indicator and other industry manufacturers' credentials
- Limited lifetime warranty
- Compatible with Schlage and other industry manufacturers' credentials
- See datasheet for additional features

## Additional supporting readers

Schlage offers an extensive range of reader technologies to meet any business need. Complementing the Schlage multi-technology, smart technology and proximity technology reader options include: keypads, scramble keypads, magnetic stripe, and bar code readers and encoders.

- OEM200
- SMR10 Magnetic Stripe Reader
- SMR20 Magnetic Stripe Reader
- SMR5 Magnetic Stripe Reader
- SERIII-W Scramble Keypad Reader
- SEKPDWG Electronic Keypad Reader
- SEKPDMGW Electronic Keypad Reader
- CRP2 Enrollment Reader
- CL-ENCODER2 Magnetic Stripe Credential Encoder

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SCHLAGE

# Mobile enabled multi-technology readers

## Overview

The Schlage® mobile enabled multi-technology readers are designed to simplify your access control solutions and eases the transition from an existing proximity system to a secure encrypted card technology or mobile solution at your own pace—without having to change readers. Three available models fit any need and operate with multiple credential form factors including wristbands, cards, fobs and tags.

MTB11: Mullion mount mobile enabled multi-technology reader
MTB15: Single gang mount mobile enabled multi-technology reader
MTKB15: Single gang mount mobile enabled multi-technology with keypad reader

Schlage mobile enabled multi-technology readers are designed to provide flexible options for making the move to secure mobile credentials at your own pace. Our contactless readers provide both a modern look and an advanced feature set. Designed with technology to support Bluetooth, NFC (Near Field Communication), smart credentials (13.56 MHz) and standard proximity credentials (125 kHz) end users have the ability to define their migration path to secure credentials.

## Features and benefits

Each Schlage mobile enabled, multi-technology reader contains 125 kHz proximity, 13.56 MHz smart and 2.4 GHz Bluetooth circuitry enabling the ability to process multiple formats simultaneously. Wiegand, Clock & Data, and RS-485 outputs come standard for simple interface with most access control panels.

- Compatible with Bluetooth and NFC-open smart phones
- Clock & Data, Wiegand and RS-485 outputs standard
- Plug & Play mode for straight out of the box functionality
- Commission via ENGAGE™ mobile app for reader updates and easy configuration.
- Improved voltage range of 5V to 28V for simplified power management
- Accommodates interior, exterior, metal and non-metal installation environments
- Improved quick-connect cable allows for easy installation
- Easy-to-install mounting bracket
- Available finishes include: Black (standard) and cream

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| Model | MTB11 | MTB15 | MTKB15 |
|---|---|---|---|
| Reader type | Mobile enabled multi-technology | Mobile enabled multi-technology | Mobile enabled multi-technology with keypad |
| Mounting style | Mullion | Single gang | Single gang |
| Standards | ISO 14443A, ISO 15693 | | |
| Certifications | FCC Certification - IC Certification - UL 294/cUL Listed - RED Directive - CE Mark - IP65 - REACH - Bluetooth SIG - RoHS 3 | | |
| Frequency | 2.4 GHz, 13.56 MHz and 125 kHz | | |
| FIPS 201 compliant | No | | |
| Technology supported | | | |
| CSN[1] | ✓ | ✓ | ✓ |
| Proximity[2] | ✓ | ✓ | ✓ |
| Smart[3] | ✓ | ✓ | ✓ |
| Mobile (NFC)[4] | ✓ | ✓ | ✓ |
| Mobile (Bluetooth)[4] | ✓ | ✓ | ✓ |
| Read range (Based on ISO Card form factor) | | | |
| Prox FSK | Up to 2.25" (5.7 cm) | Up to 4.5" (11.4 cm) | Up to 4.5" (11.4 cm) |
| Prox ASK | Up to 2.0" (5.1 cm) | Up to 3.75" (9.5 cm) | Up to 3.75" (9.5 cm) |
| MIFARE Classic® EV1 | Up to 2" (5.1 cm) | Up to 2.25" (5.7 cm) | Up to 2.25" (5.7 cm) |
| MIFARE Plus® | Up to 1" (2.5 cm) | Up to 1.5" (3.8 cm) | Up to 1.5" (3.8 cm) |
| MIFARE® DESFire® EV1 | Up to 1.25" (3.2 cm) | Up to 1.75" (4.4 cm) | Up to 1.75" (4.4 cm) |
| MIFARE® DESFire® EV2 | Up to 2" (5.1 cm) | Up to 2.25" (5.7 cm) | Up to 2.25" (5.7 cm) |
| Schlage Mobile Credential (Bluetooth) (short range-standard) | Up to 5' (1.5 m) | Up to 5' (1.5 m) | Up to 5' (1.5 m) |
| Schlage Mobile Credential (Bluetooth) (long range-optional) | Up to 30' (9.1 m) | Up to 30' (9.1 m) | Up to 30' (9.1 m) |
| System interface | Wiegand / Clock & Data / RS-485 (OSDP, OSDP Secure) | | |
| Voltage range | 5-28 VDC | | |
| Current requirements | 80mA Average (190mA Peak) @12V<br>45mA Average (100mA Peak) @24V | 80mA Average (190mA Peak) @12V<br>45mA Average (100mA Peak) @24V | 80mA Average (200mA Peak) @12V<br>45mA Average (105mA Peak) @24V |
| Pigtail specification | 22 AWG, 12 conductor, 12" length | | |
| Tamper | Yes | | |
| Physical dimensions | 5.91" x 1.72" x 0.81"<br>15 cm x 4.4 cm x 2.1 cm | 5.1" x 3.25" x 0.76"<br>12.9 cm x 8.3 cm x 1.9 cm | 5.1" x 3.25" x 0.76"<br>12.9 cm x 8.3 cm x 1.9 cm |
| Operating temperatures | -40° to 158° F (-40° to 70° C) | | |
| Weight | 3.8 oz | 6.0 oz | 6.1 oz |

## Color options

- Black (standard)
- Cream

1 DESFire® CSN,HID iCLASS® CSN, Inside Contactless PicoTag® CSN, ST Microelectronics® CSN, Texas Instruments Tag-It® CSN, Phillips I-Code® CSN

2 Schlage® Proximity, HID® Proximity, GE/CASI® Proximity, AWID® Proximity, LenelProx®

3 Schlage smart cards using MIFARE Classic® EV1, Schlage smart cards using MIFARE Plus®, Schlage smart cards using MIFARE® DESFire® EV1, Schlage smart cards using MIFARE® DESFire® EV2

4 Compatible with Bluetooth and NFC-enabled smartphones

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SCHLAGE

# Multi-technology readers

## Overview

Schlage® multi-technology readers are designed to simplify your access control solutions and allow a transition from existing population proximity or magnetic stripe to more secure encrypted card technology at your own pace—without having to change readers as new technologies are available. Five available models to fit any need and works with multiple form factors including wristbands, cards, fobs and tags.

MT11: Mullion mount multi-technology reader
MT15: Single gang mount multi-technology reader
MTK15: Single gang mount multi-technology reader with keypad reader
MTMS15: Single gang mount multi-technology reader with magnetic stripe reader
MTMSK15: Single gang mount multi-technology reader with magnetic stripe reader and keypad

## Features and benefits

Schlage multi-technology readers contain both 125 kHz proximity and 13.56 MHz contactless smart card capability in one-unit handling multiple formats simultaneously.
Wiegand and RS-485 output available for simple interface with most access control panels.

- Compatible with NFC-enabled mobile devices
- Limited lifetime warranty
- Accommodates interior, exterior, metal and non-metal installation environments
- Quick-connect cable allows for easy installation
- Easy-to-install mounting bracket
- Available finishes include: Black (standard), cool-tone gray, cream and warm-tone brown

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| Model* | MT11 | MT15 | MTK15 | MTMS15 | MTMSK15 |
|---|---|---|---|---|---|
| Reader type | Multi-technology mullion | Multi-technology single gang | Multi-technology with keypad single gang | Multi-technology with magnetic stripe | Multi-technology with magnetic stripe and keypad |
| Frequency | 13.56 MHz and 125 kHz | | | 13.56 MHz and 125 kHz and magnetic stripe | |
| FIPS 201-1 & 201-2 compliant | Yes, requires RS-485 interface–See Schlage FIPS 201 Compliant Readers Datasheet for details | | | | |
| Standard default PIV output | 75 bit PIV** | | | | |
| Standards | SO 14443A, 14443B, 15693 | | | | |
| Certifications | FCC Certification • IC Certification • UL 294 Listed • RED Directive (15 EU Countries) • CE Mark • IP65 | | | | |
| Voltage range | 5-16 VDC | | | | |
| Power supply | Linear DC | | | | |
| Current requirement (at 12 VDC and 25 C; mAmps) | MT11 Avg. 100 mA Peak 170 mA | MT11-485 Avg. 115 mA Peak 145 mA | MT15 & MT15-485 Avg. 120 mA Peak 200 mA | MTK15 & MTK15-485 Avg. 120 mA Peak 230 mA | MTMS15 & MTMS15-485 Avg. 120mA Peak 200mA | MTMSK15 & MTMSK15-485 Avg. 120mA Peak 230mA |
| Read range | Proximity: Up to 5" (12.7 cm)<br>MIFARE Classic: Up to 4" (10 cm)<br>MIFARE Plus: Up to 1" (2.5 cm)<br>MIFARE DESFire EV1 / EV2: Up to 2" (5.1 cm)<br>PIV credential: Up to 2.5" (6.5 cm) | | | | | |
| Cable specification | 18 AWG, 5 conductor stranded/shielded | | | | | |
| System interfaces | Wiegand / Clock & Data / RS-485*** (OSDP) | | | | | |
| Cabling distance | Wiegand output: 500 ft (152 m) | | | | | |
| Physical dimensions (H x W x D) | 5.91" x 1.72" x 0.81"<br>15 cm x 4.4 cm x 2.1 cm | 5.1" x 3.25" x 0.76"<br>12.9 cm x 8.3 cm x 1.9 cm | 5.1" x 3.25" x 0.76"<br>12.9 cm x 8.3 cm x 1.9 cm | 4.43" x 5.17" x 1.15"<br>11.25 cm x 13.13 cm x 2.92 cm | 4.43" x 5.17" x 1.15"<br>11.25 cm x 13.13 cm x 2.92 cm |
| Operating temperatures | -40° to 158°F<br>(-40° to 70°C) | -40° to 158°F<br>(-40° to 70°C) | -40° to 158°F<br>(-40° to 70°C) | -31° to 151°F<br>(-35° to 67°C) | -31° to 151°F<br>(-35° to 67°C) |
| Weight | 5.7 oz | 9.1 oz | 9.3 oz | 8.9 oz | 9.5 oz |
| Material | PBT Polymer | | | | |
| Technologies supported in default mode | | | | | |
| Schlage Proximity | ■ | ■ | ■ | ■ | ■ |
| HID® Proximity | ■ | ■ | ■ | ■ | ■ |
| GE/CASI ProxLite® | ■ | ■ | ■ | ■ | ■ |
| AWID® Proximity | ■ | ■ | ■ | ■ | ■ |
| LenelProx® | ■ | ■ | ■ | ■ | ■ |
| Schlage smart cards using MIFARE Classic | ■ | ■ | ■ | ■ | ■ |
| Schlage smart cards using MIFARE Plus | ■ | ■ | ■ | ■ | ■ |
| Schlage smart cards using MIFARE DESFire EV1 and EV2 | ■ | ■ | ■ | ■ | ■ |
| DESFire® CSN | ■ | ■ | ■ | ■ | ■ |
| HID iCLASS® CSN | ■ | ■ | ■ | ■ | ■ |
| Inside Contactless PicoTag® CSN | ■ | ■ | ■ | ■ | ■ |
| ST Microelectronics® CSN | ■ | ■ | ■ | ■ | ■ |
| Texas Instruments Tag-It® CSN | ■ | ■ | ■ | ■ | ■ |
| Phillips I-Code® CSN | ■ | ■ | ■ | ■ | |

## Color options†

- Black (standard)
- Cream
- Cool tone gray
- Warm tone brown

* Some features and benefits listed on the front may not be applicable to the smart-only and proximity-only readers.

** Other output options available through configuration.

*** RS-485 model numbers include "-485" after the original model number. For example, MT11-485 is the RS-485 version of the multi-technology mini-mullion reader. Multi-drop, Open Standard Device Protocol (OSDP).

† Lead time may apply for non-standard colors

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SCHLAGE

# Single technology readers

## Overview

Schlage's SM10 smart technology and PR10 proximity readers are sleek, compact and cost-effective. The SM10 is compatible with 13.56 MHz high frequency credentials from Schlage and is recommended for mid-level to high security applications where secure, encrypted technology is required. The PR10 is compatible with 125 kHz low frequency credentials and can be used for low to mid-level security applications. The mini-mullion design allows for these readers to fit into almost any application.

## Features and benefits

- Reduced model lineup and one size fits all reader offering limits complexity
- Limited lifetime warranty
- Accommodates interior, exterior, metal and non-metal installation environments
- Quick-connect cable allows for easy installation
- Easy-to-install mounting bracket
- PR10 is a cost-efficient reader used in 125 kHz proximity applications
- SM10 can support 13.56 MHz secure technology in higher security applications

| Model | PR10 | SM10 |
|---|---|---|
| **Reader type** | Proximity | Smart |
| Mounting style | Mini-mullion | Mini-mullion |
| Standards | N/A | ISO 14443A, 14443B, 15693 |
| Certifications | FCC certification; IC certification; UL 294 listed; RED directive; CE Mark; IP65-rated | |
| Credential frequency supported | 125 kHz | 13.56 MHz |
| Credential technology supported | Schlage proximity<br>XceedID® proximity<br>HID® proximity<br>GE/CASI ProxLite®<br>AWID® proximity<br>LenelProx® | Schlage DESFire™ EV1/EV2 PACSA<br>Schlage MIFARE® Secure sector<br>XceedID MIFARE® Secure sector<br>aptiQ™ Smart cards using MIFARE®<br>DESFire® CSN<br>HID iClass® CSN<br>Inside contactless PicoTag® CSN<br>ST Microelectronics® CSN<br>Texas Instruments Tag-IT® Serial number<br>Phillips I-Code® CSN |
| Read range | Proximity<br>Up to 3" (7.5 cm) | Schlage MIFARE®: Up to 3" (7.5 cm)<br>Schlage DESFire™ EV1/EV2: Up to 2" (5.1 cm) |
| System interface | Wiegand | Wiegand / Clock and Data |
| Voltage range | 5-16 VDC | |
| Current requirements | Average: 65 mA<br>Peak: 110 mA | Average: 95 mA<br>Peak: 195 mA |
| Dimensions (HxWxD) | 4.26" x 1.72" x 0.81"<br>10.8 cm x 4.4 cm x 2.1 cm | |
| Operating temperatures | -31 to 151F (-35 to 67C) | |
| Weight | 4.1 oz | 3.9 oz |
| Material | PBT polymer | |

**Color options**

Black (standard)

Cool tone gray

Cream

Warm tone brown

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SCHLAGE®

# FIPS 201 compliant readers

## Overview

Schlage® smart and multi-technology readers have been approved by the U.S. Government under HSPD-12 for FIPS 201-1 and FIPS 201-2* compliance as PIV transparent readers. PIV compliance is available on five reader models, including the MT11-485 multi-technology mullion, MT15-485 multi-technology, MTK15-485 multi-technology with keypad, MTMS15-485 multi-technology with magnetic stripe and MTMSK15-485 multi-technology with magnetic stripe and keypad.

Schlage multi-technology readers are a unique and critical component of successful security upgrades in all sectors of the government. FIPS 201-1 and 201-2 are Federal Information Processing Standards ("FIPS") developed by the National Institute of Standards and Technology ("NIST") to satisfy the requirements of HSPD-12, a Homeland Security Presidential Directive. One of the main objectives of HSPD-12 is to ensure government-wide interoperability for information technology and security through the implementation of a range of federal standards and product requirements. FIPS 201 seeks to improve identification and authentication of federal employees and contractors for access to the federal facilities and information systems.

Schlage FIPS 201 PIV compliant readers are available with multiple data output formats, which provide unprecedented versatility within the PIV & PIV-I specification.

In addition to reading approved FIPS 201-1 and 201-2 PIV & PIV-I credentials, Schlage smart and multi-technology readers are also compatible with many standard proximity and leading smart card technologies (see specifications). The ability to read multiple existing card types and PIV & PIV-I cards simultaneously is a tremendous benefit to those agencies looking to transition seamlessly from older proximity technologies to new, mandated PIV & PIV-I credentials. A mixed population of old proximity credentials and new PIV & PIV-I credentials is unavoidable during the government's multi-year upgrade path to FIPS 201 compliance.

## Features and benefits

- Compatibility: compatible with industry standard magnetic stripe technology (tracks 1, 2, or 3) and 125 kHz and 13.56 MHz contactless technologies
- Read range: up to 6 inches (proximity), up to 2 inches for PIV & PIV-I credentials
- Tri-state LED (red, green, amber): visual indicator and audio feedback representing status and activity information
- Tamper detection
- Environment: accommodates interior, exterior, metal and non-metal installation environments

GSA FIPS 201 APPROVED

Disclaimer: * FIPS201-1 certification is standard with all Schlage and Schlage readers noted. FIPS201-2 certification is tested and listed in conjunction with a full access control system, including panel, reader, and software components. For a full list of full access control systems that are certified with Schlage and Schlage readers, please refer to the APL at idmanagement.gov.

## Additional features

- Compliance: compatible with applicable ISO standards
- Warranty: limited lifetime against defective workmanship and materials
- Additional technologies supported
  - Magnetic stripe
    - Track 1, 2, or 3
  - Proximity
    - Schlage
    - XceedID®
    - HID® Proximity (certain formats)
    - GE/CASI ProxLite™
    - AWID® Proximity
  - Smart card (secure sector only)
    - Schlage MIFARE Classic®
    - Schlage MIFARE Plus®
    - Schlage MIFARE® DESFire® EV1/EV2
    - PIV & PIV-I
  - Smart card (card serial number only)
    - DESFire® application HID iClass®
    - Inside contactless PicoTag™

## Ordering information

- **MT11-485** - Multi-technology mullion reader
- **MT15-485** - Multi-technology single gang reader
- **MTK15-485** - Multi-technology with keypad single gang reader
- **MTMS15-485** - Multi-technology magnetic stripe reader
- **MTMSK15-485** - Multi-technology with magnetic stripe reader and keypad

Schlage PIV readers have been approved by the GSA lab as compliant with FIPS 201-1 and the appropriate PIV credentials.

Please see Schlage Multi-technology readers data sheet for specific technical information.

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# Reader accessories

## Overview

Choosing the right electronic access control solution is at the heart of your company's security ecosystem – whether used only for access control, or for other applications such as cashless vending, logical access, transportation or biometric data—choosing the right credential and reader system for your current needs—and for what might happen—in the future is critical.

Schlage® offers a variety of accessories and replacement parts to ensure your readers are always performing well.

### Reader covers

Replacement reader covers can be used to replace faded or cracked covers and to change the color of your readers along with any updates to the facility's décor. We offer four color options — black, cream, cool tone gray and warm tone brown. Please note that the MTB Series is only available in Black (standard) and cream.

### Cosmetic backplate covers

While replacing legacy readers with Schlage readers, the footprint of the legacy reader may be larger than that of the new reader. Cosmetic backplate covers accommodate this issue. Available in three sizes, our cosmetic backplate covers are designed to cover holes and unpainted areas that you do not wish to invest time and money to repair.

### Quick-connect cable

The quick connect cable allows the installer to connect the necessary reader wires without the hassle of a reader case hanging off the other end. Simply connect the wiring harness and plug the reader in, it's that easy. Every reader already comes with a quick-connect cable, but you can order the cable separately if you need extras.

### Other accessories

Following repeated use, the magnetic stripe read head in a reader can wear down. We offer a replacement magnetic stripe read head for our Schlage multi-technology magnetic stripe readers.

Reader mounting backplates are designed as a quick mounting bracket for a simplified installation process. Every reader comes with a reader backplate, but you can also order these separately if you need replacements and extras.

### Reader covers

**Color options***
*MTB Series covers only available in Black (Standard) and Cream.

- Black (standard)
- Cool tone gray
- Cream
- Warm tone brown

### Cosmetic backplate covers

### Quick-connect cable

MT MTB

| Reader model | | PR10 and SM10 | MT11 / MTB11 | MT15 / MTB15 | MTK15 / MTKB15 | MTMS15 | MTMSK15 |
|---|---|---|---|---|---|---|---|
| MT Series part number | Black | 47317553 | 47317557 | 47317563 | 47317569 | 47317575 | 47317579 |
| | Brown | 47317554 | 47317559 | 47317565 | 47317571 | 47317576 | 47317580 |
| | Gray | 47317555 | 47317560 | 47317566 | 47317572 | 47317577 | 47317581 |
| | Cream | 47317556 | 47317561 | 47317567 | 47317573 | 47317578 | 47317582 |
| MTB Series part number | Black | N/A | 47317558 | 47317564 | 47317570 | N/A | N/A |
| | Cream | N/A | 47317562 | 47317568 | 47317574 | N/A | N/A |
| Reader type | | Mini-mullion | Mullion | Single gang | Single gang with keypad | Magnetic stripe | Magnetic stripe with keypad |
| Dimensions (HxWxD) | | 4.26" x 1.72" x 0.81" | 5.91" x 1.72" x 0.81" | 5.1" x 3.25" x 0.76" | 5.1" x 3.25" x 0.76" | 4.43" x 5.17" x 1.15" | 4.43" x 5.17" x 1.15" |
| Material | | PNT polymer | PNT polymer | PNT polymer | PNT polymer | PNT polymer | PNT polymer |

| Part | Cosmetic backplate cover | | Quick connect cable/ pigtail | Magnetic stripe read head | Mounting backplate | |
|---|---|---|---|---|---|---|
| Part number | Mini-mullion/ mullion | CP-11 | MT Series pigtail 18 inches - 23846462<br>MTB Series pigtail 12 inches - 47265286 | 47252693 | Mini-mullion | 23846355 |
| | | | | | Mullion | 23846397 |
| | Single gang | CP-15 | | | Single gang | 23846439 |
| | Mid range | CP-21 | | | Magnetic stripe | 24152654 |
| Dimensions | Mini-mullion/ mullion | 6.70" x 2.50" | N/A | N/A | 5.1" x 3.25" x 0.76" | |
| | Single gang | 5.65" x 3.85" | | | | |
| | Mid-range | 6.45" x 5.50" | | | | |

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SCHLAGE

# Enrollment readers

## Overview

Schlage® offers a comprehensive portfolio of electronic access control solution products. Create a simple enrollment process with the Schlage CRM2 magnetic stripe enrollment reader, Schlage CRP2 proximity enrollment reader or the Schlage MT20 USB multi-technology enrollment reader with ENGAGE technology.

## Features and benefits

**CRM2 Magnetic Stripe Credential Enrollment Reader and CRP2 Proximity Credential Enrollment Reader**

- Design allows easy enrollment of credentials into the Schlage Express access control system (version 4.0 and higher)
- Eliminates the need for manual data entry and provide error-free identification and security throughout the facility
- Allows for keystrokes to be added before and after the card's data, providing flexibility and data customization
- Reads data from any data track location on the card
- USB connectivity
- Plug-and-play functionality

**The Schlage MT20 Multi-Technology Enrollment Reader**

- Design simplifies the enrollment of smart and multi-technology credentials
- Access rights can be assigned to a user without property staff having to visit the lock
- USB cable powers the device
- Use Wi-Fi connection for enrollment including no-tour credentials
- Use a computer and the ENGAGE web app to easily enroll credentials
- Recognizes Schlage smart and multi-technology credentials
- Limited Lifetime Warranty

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Learn about Allegion's commitment

| Model | MT20 |
|---|---|
| Reader type | USB |
| Software and operating system requirements | N/A - USB |
| Bit formats recognized | 26A, 32X, 34N, 34S, 35C, 37X, 37H, 40X |
| Technologies supported | Schlage Proximity<br>HID® Proximity<br>GE/CASI ProxLite®<br>AWID® Proximity<br>LenelProx®<br>Schlage MIFARE Classic Secure Sector<br>Schlage MIFARE Plus Secure Sector<br>Schlage MIFARE DESFire EV1 or EV2 with PACSA Secure Sector<br>DESFire® CSN<br>HID iClass® CSN<br>Inside Contactless PicoTag® CSN<br>ST Microelectronics® CSN<br>Texas Instruments Tag-It® Serial Number<br>Phillips I-Code® CSN |
| Physical dimensions (L x W x H) | 5.56" x 2.00" x .695" |
| Operating temperatures | 32º to 104º F (0º to 40º C) |
| Weight | 4.1 oz |
| Power supply | Connect to powered USB port or via USB power supply |
| Interface | USB |
| Current requirement | 160 mA |
| Default configuration | CE-401-073, for use with ENGAGE web applicaton |
| Octal output | CE-401-061, for use with SMS Express |
| FC/BID output | CE-401-060 (SUSB89 default,) for use as keystroke emulator |
| BID only | CE-401-069, for use as keystroke emulator |

| Model | CRP2 |
|---|---|
| Typical maximum read range | 1.0" – 3.0" (2.5 – 7.6 cm) dependent upon proximity card type and environmental conditions |
| Dimensions (H x W x D) | 3 3/8" x 2" x 0.6" |
| Weight | 0.45 lbs (12.7g) |
| Power supply and interface | USB self-powered |
| Indicators | Tri-state LED, beeper |
| Transmit frequency | 125 kHz |
| Operating temperature range | -22º to 150ºF (-30º to 65ºC) |
| Operating humidity range | 5% to 95% relative humidity, non-condensing |
| Storage temperature range | -40º to 185ºF (-40º to 85ºC) |
| Certifications | FCC, United States; CE Mark Europe, C-tic Australia, RoHS |
| Warranty | One year for material/workmanship and defects |

| Model | CRM2 |
|---|---|
| Desktop dimensions (H x W x D) | 3.674" x 1.325" x 1.193" (93.32 x 33.65 x 30.3 mm);<br>Optional base: 3.375" x 3.5" x 0.5" (86 x 89 x 13 mm) |
| Desktop weight | 4.6 oz (136 g); Base: 13 oz (369 g) |
| Media thickness | 0.015" (0.127 mm) to 0.038" (1.14 mm) |
| Slot width | 0.040" (1.0 mm) |
| Swipe speed | 3 to 60 inches per second, bi-directional |
| Power supply and interface | USB: self-powered; RS-232 [DB9F] model: 5V supplied by either PS/2 keyboard pass-through or USB power tap |
| Indicators | Tri-state LED, beeper |
| Operating temperature range | 32º to 131ºF (0º to 55ºC) |
| Operating humidity range | 5% to 95% relative humidity, non-condensing |
| Storage temperature range | -22º to 158ºF (-30º to 70ºC) |
| Cable length | 6 foot articulated cable |
| Operating life | 1,000,000 cycles minimum |
| Warranty | One year for material/workmanship and defects |

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SCHLAGE

# SERIII-W

## Scramble keypad

## Overview

The SERIII scramble keypad is a keypad reader designed to prevent onlookers from detecting the PIN code being entered. The LED's display a randomly allocated set of numbers from 0 to 9. The position of the numbers change every time the keypad is activated. Only the user standing directly in front of the keypad can see the scrambled digits.

## Features and benefits

- Very narrow viewing angle of the lighted, scrambled digits
- The membrane keypad is extremely durable
- Random allocation of digits ensures even wear to the keys
- Individual PIN codes can be up to 9 digits in length
- The SERIII has a weatherproof rating of IP65
- An audible alarm signals when a button is depressed
- Robust polycarbonate enclosure
- The unit is equipped with power-up diagnostics and self-test routine
- The SERIII is provided with Wiegand communication protocol
- Over 3.6 million unique permutations are available
- Terminal connection on the rear of the unit

## Specifications

| | |
|---|---|
| Dimensions (H x W x D) | 5.39" x 4.17" x 2.05" |
| Input voltage | 8 - 12 VDC |
| Input current | 500mA max. |
| Operating temperature | 5º F to 122º F |
| Weight | 16.76 oz |
| Cable distance (Wiegand) | 500' with 22AWG 6 conductor stranded with overall shield |

# Ordering information

- **SERIII-W-GR** - Scramble keypad (gray)
- **SERIII-W-BLK** - Scramble keypad (black)

- **SMK-2-GR** - Scramble keypad surface mount kit (gray)
- **SMK-2-BLK** - Scramble keypad surface mount kit (black)
- **SSMK-2-ADA** - Scramble keypad surface mount kit (ADA compliant)

- **PMK-2-GR** - Panel mount kit (gray)
- **PMK-2-BLK** - Panel mount kit (black)
- **SPMK-2-GR** - Panel mount kit with steel back box (gray)
- **SPMK-2-BLK** - Panel mount kit with steel back box (black)

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# Magnetic stripe readers

## Overview

Schlage® offers a comprehensive portfolio of electronic access control solution products. Schlage Magnetic (Mag) stripe readers SMR5, SMR10 and SMR 20 all feature a slim, mullion style design. The Schlage SMR 20 has a 12 position membrane style keypad. Swipe card access control is a low security controlled access solution. Featuring encoded magnetic stripe technology, mag stripe access control systems work with mag swipe technology readers and low coercivity (LoCo) and high coercivity (HiCo) mag cards.

## Features and benefits

- Rugged metal housing
- All stainless steel hardware is standard
- Audiovisual indication provides multicolor LED (red/green) and beeper sounds
- Static discharge protection
- Accepts low or high coercivity-magnetic cards
- Standard track 2 encoding (track 1 and 3 are available)
- One security screw mounting
- Supports Wiegand or Clock & Data interface formats

| Specifications | |
|---|---|
| Dimensions (W x H x L) | 1.95" x 1.3" x 5.5" |
| Power requirements | 5 or 12 VDC |
| Power consumption | 20 mA at 12 VDC |
| Operating temperature | -40° F to 170° F |
| Weight | 10 oz |
| Cable distance | 500' with 18AWG 6 conductor stranded with overall shield |

# Ordering information

- **SMR5-5V-BLK** - 5 VDC magnetic stripe card reader (black)
- **SMR5-5V-BG** - 5 VDC magnetic stripe card reader (beige)
- **SMR5-12V-BLK** - 12 VDC magnetic stripe card reader (black)
- **SMR5-12V-BG** - 12 VDC magnetic stripe card reader (beige)
- **SMR10-5V-BLK** - 5 VDC standard, magnetic stripe card reader (black)
- **SMR10-5V-BG** - 5 VDC standard, magnetic stripe card reader (beige)
- **SMR10-12V-BLK** - 12 VDC magnetic stripe card reader (black)
- **SMR10-12V-BG** - 12 VDC magnetic stripe card reader (beige)
- **SMR20-5V-BLK** - 5 VDC standard, magnetic stripe card reader with keypad (black)
- **SMR20-5V-BG** - 5 VDC standard, magnetic stripe card reader with keypad (beige)
- **SMR20-12V-BLK** - 12 VDC magnetic stripe card reader with keypad (black)
- **SMR20-12V-BG** - 12 VDC magnetic stripe card reader with keypad (beige)

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SCHLAGE

# SMR5

## Magnetic stripe reader

## Overview

The SMR5 Mercury magnetic stripe reader has a slim, mullion style design. The die cast metal housing makes it ideal for indoor or outdoor applications.

## Features and benefits

- Rugged metal housing
- All stainless steel hardware is standard
- Audiovisual indication provides multicolor LED (red/green) and beeper sounds
- Static discharge protection
- Accepts low or high coercivity-magnetic cards
- Standard track 2 encoding (track 1 and 3 are available)
- One security screw mounting
- Supports Wiegand or Clock & Data interface formats

| Specifications | |
|---|---|
| Dimensions (W x H x L) | 1.95" x 1.3" x 5.5' |
| Power requirements | 5 or 12 VDC |
| Power consumption | 20 mA at 12 VDC |
| Operating temperature | -40° F to 170° F |
| Weight | 10 oz |
| Cable distance | 500' with 18AWG 6 conductor stranded with overall shield |

## Ordering information

- **SMR5-5V-BLK** - 5 VDC magnetic stripe card reader (black)
- **SMR5-5V-BG** - 5 VDC magnetic stripe card reader (beige)
- **SMR5-12V-BLK** - 12 VDC magnetic stripe card reader (black)
- **SMR5-12V-BG** - 12 VDC magnetic stripe card reader (beige)

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# SEKPDWG and SEKPDMWG

## Electronic keypads

## Overview

The fully encapsulated electronic keypad can be used by itself or next to another reader device for additional security. Its stainless steel construction is ideal for indoor or outdoor applications. The two designs, single gang box or the mullion mount style, give it the diversity needed for any application.

## Features and benefits

- Field selectable keypad configurations
- SEKPDWG mounts directly to a single gang electrical box
- SEKPDMWG mounts to any mullion style frame
- No moving parts to replace

## Specifications

| | |
|---|---|
| Dimensions | SEKPDWG: 5.125" x 3.375" x .437"<br>SEKPDMWG: 7.125" x 1.75" x .75" |
| Power supply | 5-12 VDC (field selectable) |
| Operating temperature | -40° F to 160° F |
| Weight | SEKPDWG: 16 oz<br>SEKPDMWG: 4.4 oz |
| Material | 316L stainless steel |
| Standby current draw | SEKPDWG: 5V-20mA,<br>SEKPDMWG: 5V-20mA |

# Ordering information

- **SEKPDWG** - Single gang style keypad
- **SEKPDMWG** - Mullion style keypad
- **SEKPD8B** - Mullion style keypad (8 bit)

Note: Specify 5V or 12V

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# Reader controllers

This section of the Electronic Access control catalog covers the Schlage RC reader controller, CTE single door controller, and CT5000 single door controller.

## Schlage RC Reader Controller

The Schlage RC is the next generation reader controller that combines the innovative Pure IP™ access control technology pioneered by ISONAS together with Schlage's intelligent hardware and credentials to deliver a comprehensive and cost-effective perimeter & high security solution that connects direct to the network.

This cost-effective all-in-one edge device seamlessly integrates with open PACS solutions by connecting to an existing IT network via a single PoE cable.

The Schlage RC reader controller opens the door to real-time connectivity with local mode feature. By eliminating the need to run separate power to the door, installation time is significantly reduced. The RC can be managed in the same system as Schlage NDE & LE wireless locks for a complete interior and exterior solution.

## CTE ENGAGE™ single door controller with multi-technology reader

The CTE is an ENGAGE™ enabled single opening controller that allows perimeter and common area openings to be managed in a single system along with Schlage Control™ smart locks, NDE and LE wireless locks. It is ideal for multifamily, commercial mixed use, narrow stile and retail storefront applications. The CTE is designed to work with a Schlage mobile enabled multi-technology reader and interface with an electrified lock, electromagnetic lock, electric strike, automatic operator, or exit device to control an opening.

## The CT5000 offline controller:

**Features**

The CT5000 offline single opening controller is also available for standalone applications. The CT5000 can support up to two separate Wiegand readers as well as interface with peripheral devices such as automatic operators, electric strikes, and electromagnetic locks.

**Benefits**

The CT5000 offline single opening controller is an ideal solution for narrow stile store front and exit door applications. The CT5000 can operate in the same system as the AD Series and CO Series electronic locks. If networked functionality is required in the future, the CT5000 can be easily upgraded to a networked WRI400 wireless reader interface.

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# RC multi-technology reader controller

## Overview

The Schlage® RC is an IP reader controller that combines patented Pure IP™ access control technology together with Schlage's intelligent hardware, delivering a cost-effective all-in-one edge device that easily integrates into open PACS solutions. The Schlage RC connects to existing IT networks via a single PoE cable; reducing installation time and eliminating the need to run separate power to the door. The Schlage RC provides real-time connectivity with local mode feature, and can be managed in the same system as Schlage NDE and LE wireless locks.

**Three models are available to allow for common mounting options; creating a simple install process at each door.**

- **RC11:** Mullion mount, multi-technology IP reader controller
- **RC15:** Single gang mount, multi-technology IP reader controller
- **RCK15:** Single gang mount, multi-technology IP reader controller with keypad

Schlage RC reader controllers provide both a modern look and an advanced feature set. Designed with technology to support Bluetooth, NFC (Near Field Communication), smart credentials (13.56 MHz) and standard proximity credentials (125 kHz); end users can define their migration path to secure credentials.

## Features and benefits

The Schlage RC contains 125 kHz proximity, 13.56 MHz smart and 2.4 GHz Bluetooth circuitry enabling the ability to process multiple formats simultaneously.

- Real time connectivity; local mode feature allows readers to function without a connection to the network. This results in faster user response times, less network traffic and reduced host system loading.
- Tamper detection via accelerometer senses any type of altering and prevents a security breach with the reader.
- Communication is secured using industry standard TLS 1.2 encryption
- Supports network communication speeds of 10 or 100 mbps half or full duplex
- Commission via ENGAGE™ mobile app for easy configuration
- Three configurable inputs; Door Position (DPS), Request to Exit (REX), and Auxiliary (AUX)
- Mullion, wall mount and wall mount with keypad form factors
- Reader controllers support 125 kHZ proximity, 13.56 MHz smart technology, 2.4 GHz Bluetooth and Near Field Communication (NFC)
- Credential parity standard with Schlage MTB mobile enabled multi-technology readers and Schlage mobile enabled wireless locks; ISONAS credential parity is a factory orderable option
- Accommodates interior, exterior, metal and non-metal installation environments

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| Model | RC11 | RC15 | RCK15 |
|---|---|---|---|
| Reader type | IP reader controller | IP reader controller | IP reader controller with keypad |
| Mounting style | Mullion | Single gang | Single gang |
| Standards | ISO 14443A, ISO 15693 | | |
| Certifications | FCC Certification - IC Certification - UL294 V7 / cUL Listed - RED Directive - CE Mark - IP65 - REACH - Bluetooth SIG - RoHS 3 | | |
| Frequency | 2.4 GHz, 13.56 MHz and 125 kHz | | |
| Intelligence capacity | 64,000 credentials - 5,000 events - 32 time schedules - 32 holidays | | |
| Network communications | 10/100Mb, half or full duplex<br>Ethernet, WebSockets, standard Cat5E or better cable<br>Network host or client modes - DHCP addressing | | |
| Visual communications | LED (red, amber, green) | | |
| Audible communications | Audible indicator (on / off) | | |
| Software compatibility | Works with open PACS systems including ISONAS Pure Access™ Cloud. **See us.allegion.com/alliances for details** | | |
| FIPS 201 compliant | No | | |
| Technology supported | CSN[1], Proximity[2], Smart[3], Mobile[4] (NFC and Bluetooth) | | |
| Read range - ISO card form factor | | | |
| Prox FSK | Up to 1.75" (4.4 cm) | Up to 4.0" (10.1 cm) | Up to 4.0" (10.1 cm) |
| Prox ASK | Up to 1.5" (3.8 cm) | Up to 3.25" (8.2 cm) | Up to 3.25" (8.2 cm) |
| MIFARE Classic® EV1 | Up to 1.75" (4.4 cm) | Up to 2.0" (5.1 cm) | Up to 2.0" (5.1 cm) |
| MIFARE Plus® | Up to 0.25" (0.6 cm) | Up to 1.25" (3.2 cm) | Up to 1.25" (3.2 cm) |
| MIFARE® DESFire® EV1 | Up to 0.5" (1.3 cm) | Up to 1.5" (3.8 cm) | Up to 1.5" (3.8 cm) |
| MIFARE® DESFire® EV2 | Up to 1.5" (3.8 cm) | Up to 2.0" (5.1 cm) | Up to 2.0" (5.1 cm) |
| Read range - Schlage Mobile Access Credential | | | |
| (short range-standard) | Up to 5' (1.5 m) | Up to 5' (1.5 m) | Up to 5' (1.5 m) |
| (long range-optional) | Up to 30' (9.1 m) | Up to 30' (9.1 m) | Up to 30' (9.1 m) |
| System interface | 2 TTL Lines / Clock & Data (for use with the Advanced Security Module (ASM)) | | |
| Communication security | Transport Layer Security (TLS) version 1.2 | | |
| Inputs | Request to Exit (REX) / Auxiliary Input (AUX) / Door Position Switch (DPS) | | |
| Voltage range | 10 - 13 VDC / PoE or PoE+(IEEE802.3af, Class 0) | | |
| Current requirements | 120mA Average (210mA Peak) @12V | 120mA Average (220mA Peak) @12V | 120mA Average (225mA Peak) @12V |
| Poe / PoE+ Pigtail | 26 AWG, CAT 5E, 8" length | | |
| Tamper | Yes | | |
| Physical dimensions | 5.94" x 1.77" x 1.0"<br>15.1cm x 4.5cm x 2.5cm | 5.13" x 3.25" x 1.0"<br>13.0cm x 8.3cm x 2.5cm | 5.13" x 3.25" x 1.0"<br>13.0cm x 8.3cm x 2.5cm |
| Operating temperatures | -31ºF to 151º F (-40ºC to 66ºC) | | |
| Weight | 5.8 oz | 8.1 oz | 8.2 oz |

## Color option

Black (standard)

1 DESFire® CSN,HID iCLASS® CSN, Inside Contactless PicoTag® CSN, ST Microelectronics® CSN, Texas Instruments Tag-It® CSN, Phillips I-Code® CSN

2 Schlage® Proximity, ISONAS Prox, HID® Proximity, GE/CASI® Proximity, AWID® Proximity, LenelProx®

3 Schlage smart cards using MIFARE Classic® EV1, Schlage smart cards using MIFARE Plus®, Schlage smart cards using MIFARE® DESFire® EV1, Schlage smart cards using MIFARE® DESFire® EV2 . ISONAS credential parity available; specify CE-5901-0402 with your RC order

4 Compatible with Bluetooth and NFC-enabled devices

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SCHLAGE

# CTE

## ENGAGE™ single door controller with mobile enabled multi-technology reader

## Overview

The CTE is an ENGAGE™ enabled single opening controller that allows perimeter and common area openings to be managed in a single system along with Schlage Control™ Mobile Enabled Smart Locks, NDE cylindrical and LE mortise wireless locks. It is ideal for multifamily, commercial mixed use and retail store front applications.

The CTE is designed to work with a Schlage® mobile enabled multi-technology credential reader and interface with an electrified lock, electromagnetic lock, electric strike, automatic operator, or exit device to control an opening.

The CTE single door controller is designed for flexibility and can be managed with ENGAGE™ web and mobile apps or with one of our Physical Access Control Software (PACS) provider systems.

## Features and benefits

- Enables around the door solution with ENGAGE functionality
- Built-in Bluetooth and Wi-Fi
- Complete with Schlage MTB11 or MTB15 reader (Required reader interface RS-485)
- No-Tour capable
- Flexible connectivity options: manage with ENGAGE web and mobile apps or with one of our PACS providers
- Inputs: door position (DPS), request to exit (REX), request to enter (REN), remote release (REL)
- Outputs: lock relay , alarm relay, auxiliary (Aux) relay
- Input Power: 12 or 24 VDC or Power over Ethernet (PoE/PoE+)
- Provides DC output power and dry control contacts

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## CTE single door controller specifications

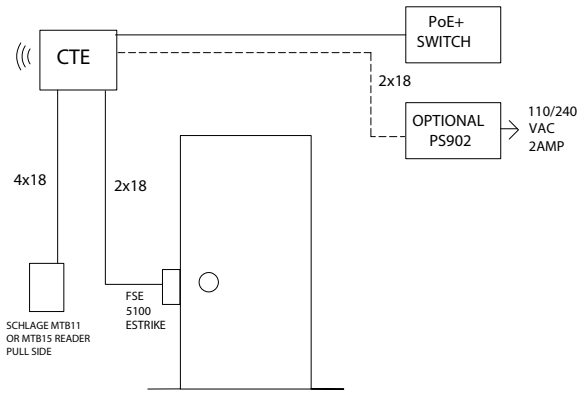
| | |
|---|---|
| Users | Up to 5,000 |
| Audits | Up to 2,000 |
| Schedules | Up to 16 |
| Holidays | Up to 32 |
| Time zones | Up to 16 |
| Communication Standards | Bluetooth low energy (version 4.2) |
| | 2.4 GHz Wi-Fi® (IEEE 802.11b/g/n) |
| | WPA2, WPA, WEP, 802.1x (PEAP) |
| | Transport Layer Security (TLS) version 1.2 |
| | Advanced Encryption Standard (AES), 256-bit |
| Gateway communication range | Up to 30' in typical building environments. A detailed site survey is recommended. Reference ENGAGE™ Gateway Data Sheet for additional details. |
| Connectivity options | Mobile (send updates at door) |
| | Wi-Fi access point (automatic daily updates) |
| | ENGAGE Gateway, IP to host (Networked wireless reader interface) |
| | No-Tour[1] |
| Power Inputs | 12 or 24 VDC at 3 Amps input for powered outputs to get Max 2 Amp output on relays, 0.5 Amp minimum input when using dry contacts. |
| | PoE/PoE+ (IEEE 802.3af/at) |
| Powered Outputs: Locking mechanism, Alarm, Aux | 12 VDC Input: 2A @ 12 VDC Max (combined output across powered outputs) |
| | 24 VDC Input: 2A @ 24 VDC Max (combined output across powered outputs) |
| | PoE Input: 0.5A @ 12 VDC Max (combined output across powered outputs) |
| | PoE+ Input: 1.5A @ 12 VDC Max (combined output across powered outputs) |
| Dry Outputs: Locking mechanism, Alarm, Aux | Locking mechanism: 2A @ 30VDC Max |
| Reader Interface | 0.3A @ 12 VDC Max (up to 500 ft.) |
| | 12 or 24 VDC Input: 12V @ 0.3A Max Output<br>POE or POE+ Input: 12V @ 0.3A Max Output |
| | Aux: 2A @ 30VDC Max |
| | Alarm: 2A @ 30VDC Max |
| | Reader (Schlage MTBXX) (Required to utilize -485 interface) |
| | Schlage MTB11 or MTB15 Reader |
| Signal Inputs | Request-to-enter (REN) |
| | Request-to-exit (REX) |
| | Remote Release (REL) -- wired |
| | Door position switch (DPS) |
| | Tamper (TAMP) |
| Operating temperature (indoor) | -31ºF (-35ºC) to 151ºF (66ºC) |
| Operating humidity | 0 - 100% non-condensing |
| Certifications | UL 294 Indoor, FCC Part 15, NEMA Enclosure Indoor (Type 1, 4, and 4X), ULC S319 Indoor, RoHS |
| Dimensions | 2.96" x 5.89" x 7.86" |

1 With MT20W and smart credential or mobile credential (consult your access control software provider for specific support)

# The CTE single door controller with mobile enabled multi-technology reader reader kit can be used in a variety of applications. Below are a few examples:

Please note all components sold separately.

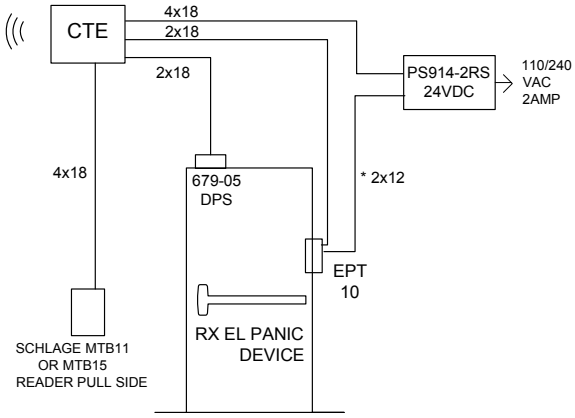
ENGAGE™ cloud via mobile device or Wi-Fi, or PACS provider via Wi-Fi or GWE with IP to host




**Operation:** Presenting a valid credential to Schlage MTBXX reader will cause fail secure 5100 electric strike to release for authorized entrance. Free egress always.

**Products:** We offer a variety of electric strikes from Locknetics® and Von Duprin®, as well as Schlage Power Supplies to meet the specific needs of the opening.

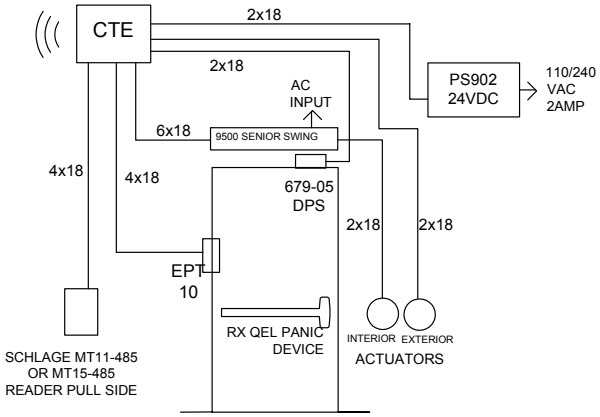
ENGAGE™ cloud via mobile device or Wi-Fi, or PACS provider via Wi-Fi or GWE with IP to host




**Operation:** Presenting a valid credential to Schlage MTBXX reader will cause EL panic device to retract for authorized entrance. Free non-alarmed egress at all times.

**Products:** We offer a variety of Falcon® and Von Duprin exit devices, and Von Duprin power supplies to meet the specific needs of the opening.

ENGAGE™ cloud via mobile device or Wi-Fi, or PACS provider via Wi-Fi or GWE with IP to host




**Operation:** Presenting a valid credential to Schlage MTBXX will cause QEL panic device to retract for authorized entrance and enable exterior actuator. Free non-alarmed egress at all times. Interior actuator always active to retract QEL panic and open door.

**Products:** We offer a variety of hardware and accessories from Von Duprin, LCN®, Schlage and Locknetics to meet the specific needs of the opening.

# Reader requirement

MTB11 MTB15

The CTE single door controller kit is available with two reader options:

- **CTE-MTB11:** CTE with mobile enabled multi-technology mullion reader kit
- **CTE-MTB15**: CTE with mobile enabled multi-technology single gang reader kit

**Notes:**

- Reader color (black or cream) can be specified; black is the default
- Custom reader configuration can be specified
- Required to utilize RS-485 interface

# Credential compatibility

## Mobile enabled multi-technology reader specification

| | |
|---|---|
| Proximity credential compatibility | **Compatibility:** Schlage®, HID®, GE/CASI ProxLite®, AWID® and LenelProx®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob and PVC adhesive disk |
| Smart credential compatibility[1] | **Secure sector compatibility:** Schlage MIFARE Classic®, Schlage MIFARE Plus®, Schlage MIFARE DESFire EV1 and EV2 with PACSA<br>**CSN only compatibility[2]:** DESFire, HID iClass®, Inside Contactless Pico Tag®, MIFARE, Schlage MIFARE DESFire EV1 and EV2, ST Microelectronics®, Texas Instruments Tag-It®, Phillips I-Code®<br>**Schlage credential style formats:** Clamshell, ISO card, ISO card with magnetic stripe, keyfob, thin keyfob, wearable wristband, PVC adhesive patch |
| Mobile credential compatibility | **Compatibility:** Schlage Mobile Credential with Bluetooth[3], Integrated PACS Mobile Credential with Bluetooth[4], NFC-enabled mobile devices[4] |

[1] No-Tour applications using smart credentials require minimum memory size of 8k bit/1K byte.

[2] Configuration card required to enable CSN.

[3] Supported through ENGAGE

[4] Dependent on PACS provider integrations and capabilities. Go to us.allegion.com/alliances for more information.

The CTE can operate in the same system as Schlage Control™, NDE and LE wireless locks.

Manage with ENGAGE™ cloud based web and mobile apps or with one of our PACS providers.

To learn more visit allegionengage.com.

Allegion takes a broad and deep approach to ensuring the safety and security of its products. The cybersecurity program at Allegion is designed around four pillars: security and privacy by design, built on proven security practices, security updates & vulnerability management, and testing by internal and external experts.

## ENGAGE™ cloud-based web and mobile applications

ENGAGE™ TECHNOLOGY

The ENGAGE cloud-based web and mobile applications deliver simple and convenient site set-up with basic access management for users and locks. Please refer to the ENGAGE data sheet for additional detail.

Download on the App Store

ANDROID APP ON Google play

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# CT5000

## Offline controller

## Overview

The CT5000 is an offline single opening controller designed for applications where the security and convenience of offline electronic access control is desired, but an integrated electronic lock may not be practical. It is an ideal solution for narrow stile aluminum store front applications because it can work with a variety of readers, as well as interface with peripheral devices such automatic operators, electric strikes, and electromagnetic locks.

The CT5000 is compatible with many brands and types of credential technologies including magnetic stripe (tracks 1, 2, and 3), 125 kHz proximity, and 13.56 MHz smart cards. It also supports a variety of card functions including: normal, toggle, freeze, pass through, construction, lockdown and card + PIN applications.

As a complement to your facility's portfolio of CO Series and AD Series devices and networked readers, CT5000 is also capable of upgrade should your needs change to a wireless networked solution.

With the addition of a networked communication board and upgraded firmware, the CT5000 becomes a wireless reader interface capable of communicating via 900MHz signal to an AD Series PIM400. As a wireless reader interface, it can connect to your networked access control system, eliminating the need to run additional wires to the door, saving you time and money on installation.

## Features and benefits

- Three form C relay outputs and three inputs that can include door position and request to exit
- CT5000 strike relay can be configured to fail safe or fail secure
- Upgradable to a wireless reader interface configuration to allow networked communication as your security needs evolve
- Supports up to two parallel Wiegand or Clock & Data reader inputs on a single opening
- Programmable via Schlage Utility Software (SUS) mobile app on compatible Android device
- Includes a 15' cable and wallplate connection to enable HHD programming from a remote connection point with a 125' cable option available
- Up to 5000 unique users[1] with audit trail of up to 5000 events[1]
- Up to 16 holidays and 8 time zones enables auto lock and unlock during specified periods with Schlage Express software use
- Door monitoring capable including door position and request-to-exit (remote release)

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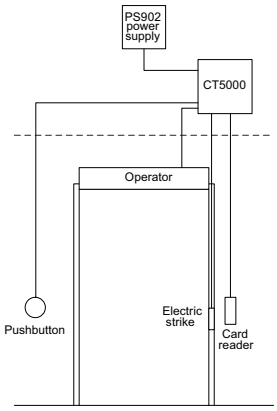
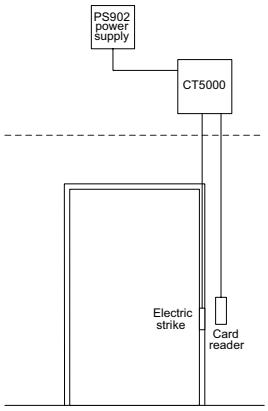
[1] Depending on your access control software

# CT5000 offline controllers

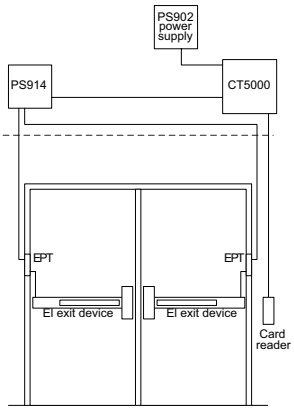
The CT5000 can be used for front door applications with an automatic operator, electric strike and card reader




For narrow stile applications, the CT5000 can be used with an electric strike and card reader




The CT5000 and a card reader along with the Von Duprin 914 Power Supply can control two EL exit devices for double door applications




Note: PS902 and Von Duprin PS914 are sold separately.

## CT5000 offline controller specifications

| | | |
|---|---|---|
| Users | | Up to 5000 |
| Audits | | Up to 5000 |
| Power supply | | 12 VDC or 24 VDC (sold separately, must be UL 294 Class 2 listed power supply) |
| Voltage range | | 9.5 VDC to 26 VDC |
| Connector cable specifications | DC power input | 18AWG, 2 conductor (Belden 8760 or equivalent) up to 1000 ft (305 m) |
| | Credential readers (x2) | Data signals: 22AWG, 6 conductor (Alpha 1296C or equivalent) up to 500 feet (152 meters)<br>Reader tamper signals: 18AWG, twisted pair shielded (Belden 8760 or equivalent) up to 500 feet (152 meters) |
| | Strike/aux relay outputs | 18AWG, 2 conductor (Belden 8760 or equivalent) up to 2000 feet (610 meters) |
| Relay output tolerances | Strike output relay | Form C relay; 6 amps @ 24VDC or 6 amps @ 20 VAC or 3 amps @ 240 VAC |
| | Auxiliary output relay | Form C relay; 6 amps @ 24VDC or 6 amps @ 20 VAC or 3 amps @ 240 VAC |
| | Alarm output relay | Form C relay; 6 amps @ 24VDC or 6 amps @ 20 VAC or 3 amps @ 240 VAC |
| Operating temperature | | -31°F (-35°C) to 151°F (66°C) |
| Operating humidity | | 0 - 100% condensing |
| Certifications | | UL 294; Canada UL; FCC Part 15; RoHS |
| Dimensions | | 10.43" x 7.28" x 3.79"<br>26.49 cm x 18.49 cm x 9.63 cm |
| Programming method | | Manually programmed via compatible keypad or computer programmed via Schlage Utility Software (SUS) mobile app on compatible Android mobile device |
| Optional accessories | | 125 foot USB remote cable connector, PS902, PS904 or Von Duprin® PS914 (sold separately) |

## Credential compatibility (software and reader dependent)

| | |
|---|---|
| Magnetic stripe card | Field configurable track 1, 2, or 3 |
| Proximity card | Schlage, ISONAS® (34X, 35X, 35C, 37X bit formats), HID®, GE/CASI ProxLite™ and AWID® 26 bit format |
| Smart card | Schlage MIFARE DESFire™ EV1 and EV2, HID iCLASS® CSN only 26 bit format |

The following readers are UL 294 listed for use with the CT5000:

- Essex Electronics model KTP-162
- Mercury Security models MR-5 and MR-20
- Schlage model PR10
- Schlage models MTB11, MTB15, MTKB15, MT11, MT15, MTK15, MTMS15, MTMSK15, and SM10

## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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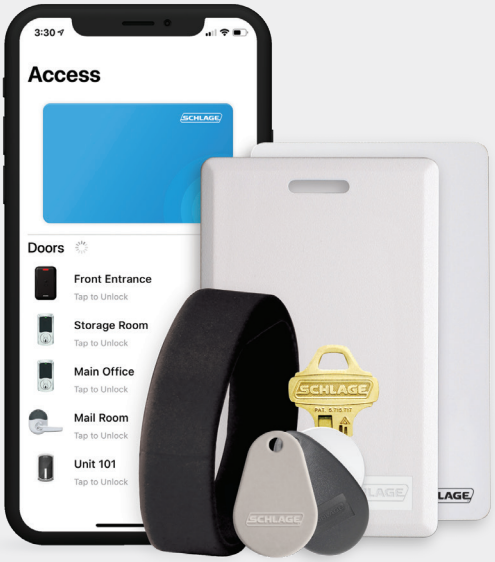
# Credentials




This section of the Electronic Access Control catalog covers mobile, smart, multi-technology and proximity credentials.

## Overview

Schlage® offers credentials that fit every step along the continuum of your security strategy. Starting with the most basic key, to the most sophisticated smart card. Every opening has its own needs and Schlage delivers a solution to fit them all.

The comprehensive credential offering from Schlage features mobile, smart, multi-technology and proximity technologies as well as a variety of form factors to meet the security needs of virtually any customer.

There are many types of smart cards on the market today, but unlike proximity, smart credentials are not all equal. Schlage continually strives to identify the best technologies in the world to ensure we're offering the best solutions for our customers to meet their continued goals for safety and security.

Credentials from Schlage also provide unique advantages that help your business thrive and make doing business easier. The CardTrax™ card tracking program offers a fully managed solution to ensure card number sequences are never duplicated, providing added security and flexibility, all at no extra charge.

Custom artwork and laser engraving are also available on all Schlage ISO and clamshell cards.

# Smart credentials

Schlage offers a variety of smart credential technology options to fit the needs and budget of most every application. All smart credentials from Schlage are encrypted and secure, but also based on open, global standards, ensuring a future of headache-free flexibility and scalability.

Schlage smart credentials offer a single credential solution for secure physical and logical access and are available in a variety of form factors to fit any facility or business need, including ISO style cards, clamshell cards, wristbands, key fobs and adhesive patches. All Schlage smart cards are compliant with international standard ISO 14443.

Schlage 13.56 MHz contactless smart credentials are offered with the following industry standard MIFARE technologies:

### MIFARE Classic®

Schlage credentials using MIFARE® Classic technology are ideal for facilities with moderate security needs, and for businesses that want to use credentials to support multiple business functions.

- Simple, fixed memory structure
- Freely programmable memory
- Multiple memory options and form factors

### MIFARE Plus®

- MIFARE Plus brings advanced security, with the functionality of the MIFARE Classic credential. A cost efficient solution that's perfect for access control applications.
- Simple, freely programmable, fixed memory structure
- 128 AES encryption used for authenticity, confidentiality and integrity
- Multiple form factors

### MIFARE® DESFire® EV1 and EV2

MIFARE® DESFire® EV1 and EV2 delivers the perfect balance of security, speed and performance. Its open protocol design allows future seamless integration of other applications.

- Flexible file system / flexible memory organization
- Fast and secure data transmission
- 128 AES encryption used for authenticity, confidentiality and integrity
- Multiple memory options and form factors

# Schlage multi-technology credentials

Schlage multi-technology credentials combine 125 kHz proximity and 13.56 MHz smart technologies in one contactless card, simplifying access control solutions and offering flexibility for users. The credentials are compatible with proximity, smart and multi-technology card readers, allowing facilities ultimate flexibility. The open architecture design also ensures fast data transfer rates.

- Includes 125 kHz proximity and 13.56 MHz smart technologies in one credential
- Compatible with Schlage and other industry manufacturers' readers and electronic locks
- CardTrax™ account tracking program helps keep track of card numbers at no additional cost.
- Lifetime warranty against manufacturer's defects
- Custom artwork and laser engraving available
- Available in ISO style cards and can include a magnetic stripe.
- Available in multiple memory capacities

# Schlage proximity credentials

Schlage proximity credentials provide a convenient access control solution for facilities with less demanding security needs. Schlage proximity credentials are compatible with most industry-leading proximity readers, allowing them to easily integrate with new and existing proximity access control systems.

- 125 kHz proximity technology available in multiple form factors
- Easily integrates into existing proximity systems
- CardTrax account tracking program helps keep track of card numbers at no additional cost.
- Lifetime warranty against manufacturer's defects
- Custom artwork and laser engraving available
- Available in ISO style cards and can include a magnetic stripe.

# Mobile credentials

Allegion offers an array of mobile credentials to accommodate multiple technology solutions.

Schlage Mobile Access Credential: The new Schlage Mobile access credential offers convenience, flexibility and security all in one. Part of the complete Schlage Mobile Access Solution, where legacy meets innovation, the mobile credential incorporates Bluetooth low-energy (BLE) technology.

Mobile Student ID: Mobile student ID is the most secure way for students to get around campus with the ID they're used to carrying. This new feature will allow students, faculty and staff at participating universities to add their student ID cards to the Apple Wallet and Google Pay.

From highly durable clamshell-style cards to the standard ISO style cards, keyfobs or PVC adhesive disks, Schlage offers a variety of credential formats to support a broad range of access control applications.

Clamshell card

ISO glossy card

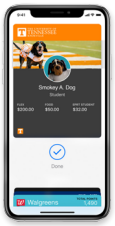
Keyfob/thin keyfob

Wristbands

PVC adhesive patch

PVC adhesive disk

Mobile credential



Mobile student ID

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## About Allegion

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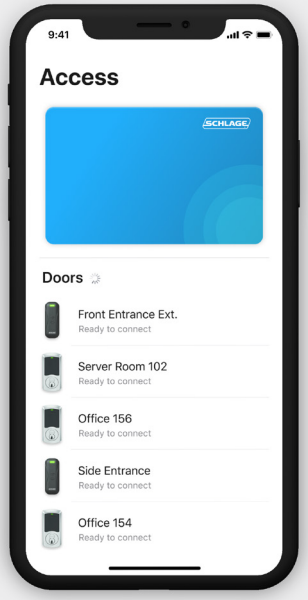
# Schlage Mobile Access Credentials




## Overview

The new Schlage® Mobile Access Credentials enable residents or staff members to utilize a mobile device instead of a physical badge to securely unlock an opening. Available for iOS and Android phones, the Schlage Mobile Access Credential app is convenient and easy to use. Simply select a specific door listed on the app; Simply select a specific door listed on the app and the encrypted credential will be sent to the mobile enabled lock or reader.

Schlage Mobile Access Credentials feature best-in-class asymmetric encryption for added security and peace of mind. For added reliability and convenience, Schlage Mobile Access Credentials will work without an internet or cellular connection once they are downloaded from the cloud and access rights are synced to the devices.

At Schlage, we believe in building flexible and interoperable solutions that are rooted in open design standards. We recognize that Schlage locks and readers are managed by a wide variety of physical access control systems (PACS), that is why we have made software development tools available to industry leading providers. Please consult with your PACS provider to determine if Schlage Mobile Access Credentials have been integrated to work with your system.

## Features and benefits

**Mobile credential users:**

- Supports iOS and Android; available in the Apple Store and Google Play Store
- Quick response from smart device to mobile enabled lock or reader
- Unlock an opening from up to 30' away*
- Best-in-class asymmetric credential encryption
- The built-in fingerprint or facial recognition features on the phone are used to confirm identity
- Works without internet connection or cellular service at the opening

**Site administrators:**

- Compatible with mobile enabled hardware including Schlage Control™, MTB Readers, NDEB & LEB wireless locks and RC reader controllers (Q2 2021)
- No-Tour compatibility through the Schlage Mobile Access Credential is available with select PACS providers
- Please consult with your PACS provider for specific support of features and capabilities

* Dependent on device. Schlage MTB Readers and RC reader controllers can be configured to read up to 30', Schlage Control™, NDEB and LEB wireless locks are configurable and can read up to 15'.

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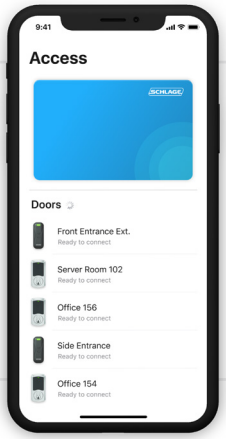
## Specifications

| | |
|---|---|
| **Credential technology** | Bluetooth Low Energy (BLE) 2.4 GHz |
| **Mobile device support** | Click here or visit the Schlage Mobile Access Credentials page on us.allegion.com for a list of supported mobile phones. |
| **Opening modes** | Using mobile app, select door to unlock, up to 30' range*. |
| **Security** | Mobile access credentials are protected by device lock screen<br>Over-the-air communication generates keypair for each session<br>Using the ECDH algorithm the exchanged public key and private key are used to create a session key that will be used to encrypt information for the session |
| **Compatible devices** | ▪ Schlage Control™ mobile enabled deadbolt and interconnected lock<br>▪ Schlage MTB mobile enabled multi-technology reader<br>▪ Schlage MTB mobile enabled multi-technology reader with CTE single door controller in ENGAGE<br>▪ Schlage NDEB mobile enabled cylindrical wireless lock with interior push button<br>▪ Schlage LEBMS mobile enabled mortise wireless lock<br>▪ Schlage LEBMB mobile enabled mortise wireless lock with interior push button<br>▪ Schlage LEBMD mobile enabled mortise wireless lock with deadbolt<br>▪ Schlage RC mobile enabled multi-technology reader controller |




## It's easy to use Schlage Mobile Access Credentials

- Click on link in the text message
- Download and install the Schlage Mobile Access Credential app
- Choose specific door in list to unlock
- Additional features and capabilities will vary. Please visit us.allegion.com/alliances or consult your access control provider for details

* Dependent on device. Schlage MTB Readers and RC reader controllers can be configured to read up to 30', Schlage Control™, NDEB and LEB wireless locks are configurable and can read up to 15'.

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## About Allegion

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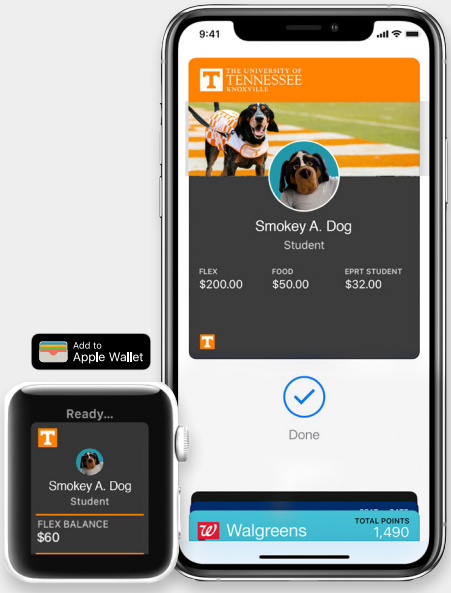
# Mobile Student ID




## Overview

Mobile Student ID is the most secure way for students to get around campus with the ID they're used to carrying. This new feature will allow students, faculty and staff at select universities to add their student ID cards to their Apple Wallet or Google Pay.

Leveraging NFC technology and contactless readers, students are able to easily gain access and make payments around campus using Mobile Student ID.

Mobile Student ID is available to anyone on campus who uses a school ID card:

- Students
- Faculty
- Staff

To enable this capability on campus, all readers must support an NFC credential. Some examples of this includes:

- Interior and exterior door access
- Dining hall and retail dining
- Bookstore and off-campus retailers
- Library, printing, laundry and vending
- Event ticketing
- Attendance tracking

## Key benefits

- **Easy**
  Students expect to get around their campus with ease and school administrators want to provide a great experience for their students
- **Secure**
  Using NFC technology, Mobile Student ID is a more secure way to transact on campus; the mobile credential is stored directly on a user's device in the secure element
- **Private**
  Apple does not know where you go, what you bought, or how much you spend; everything is managed directly through existing one card and access control providers, just as with the plastic card
- Schlage offers a comprehensive portfolio of electronic hardware to accommodate every opening
  - AD Series electronic lock
  - MTB Mobile enabled multi-technology readers
  - NDE wireless cylindrical lock
  - LE wireless mortise lock

**Visit allegionmobilecampus.com for more information on how to transition to Mobile Student ID.**

## AD Series electronic lock

The AD Series was built from the ground up to provide more options, more functionality and more compatibility than any other electronic locking solution on the market today.

- Mortise, cylindrical & exit trim versions
- Adaptable reader heads
- Non-invasive installations for historic buildings and sensitive areas
- Secure encrypted data transmission
- 200 feet range from transceiver/access panel
- Near real-time communication
- Reads multiple credential technology including mag stripe, proximity, smart and NFC Mobile Student ID
- AD300 wired and AD400 wireless options
- Seamlessly integrates into On Guard

## Mobile enabled multi-technology readers

The Schlage® MTB mobile-enabled, multi-technology readers are designed to simplify your access control solutions and eases the transition from an existing proximity system to a secure encrypted card technology or mobile solution at your own pace—without having to change readers.

- Compatible with Bluetooth low energy and NFC-open smart devices
- Plug and play mode for straight out of the box functionality
- Limited lifetime warranty
- Ability to upgrade firmware on Schlage MT multi-technology readers for compatibility with NFC-open smart devices

## NDE and LE wireless locks

NDE and LE wireless locks support the transition to mobile on campus. They read proximity and smart credentials as well as mobile student IDs.

- Simplified installation by combining the lock, credential reader, door position sensor and request-to-exit switch all in one unit
- NDE fits mechanical ND door prep with minor modifications
- LE suites with Schlage mechanical and electrified L Series locks with many common parts

## Accessories

For non-access control applications such as dining, POS - USB output, vending, or laundry Schlage has hardware solutions to fit your needs.

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# Smart credentials

## Overview

Schlage® offers a variety of smart credential technology options to fit the needs and budget of most every application. All smart credentials from Schlage are encrypted and secure, but also based on open, global standards, ensuring a future of headache-free flexibility and scalability. Schlage smart credentials offer a single credential solution for secure physical and logical access and are available in a variety of form factors to fit any facility or business need, including ISO style cards, clamshell cards, wristbands, key fobs and adhesive patches. All Schlage smart cards are compliant with international standard ISO 14443. Schlage 13.56 MHz contactless smart credentials are offered with the following industry standard MIFARE® technologies:

**MIFARE Classic®**
Schlage credentials using MIFARE Classic® technology are ideal for facilities with moderate security needs, and for businesses that want to use credentials to support multiple business functions.

- Simple, fixed memory structure
- Freely programmable memory
- Multiple memory options and form factors

**MIFARE Plus®**
MIFARE Plus® brings advanced security, with the functionality of the MIFARE Classic credential. A cost efficient solution that's perfect for access control applications.

- Simple, freely programmable, fixed memory structure
- 128 AES encryption used for authenticity, confidentiality and integrity
- Multiple form factors

**MIFARE® DESFire® EV1/EV2**
MIFARE® DESFire® EV1/EV2 deliver the perfect balance of security, speed and performance. Its open protocol design allows future seamless integration of other applications.

- Flexible file system/flexible memory organization
- Fast and secure data transmission
- 128 AES encryption used for authenticity, confidentiality and integrity
- Multiple memory options and form factors

## Features and benefits

- Open architecture design is built on ISO 14443A standards, providing for a faster data transfer speed
- Offered in clamshell, ISO style cards, keyfobs, wristbands and adhesive patches
- Utilizes MIFARE Classic, MIFARE Plus or MIFARE DESFire EV1/EV2
- Custom artwork and laser engraving available for clamshell and ISO style cards

Clamshell card

Wristbands

ISO glossy card

Keyfob/thin keyfob

PVC adhesive patch

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## 13.56 MHz smart credentials

| | | | | | | |
|---|---|---|---|---|---|---|
| Model number | 9420, 9451 | 9520, 9551, 9558 | 9651 | 9651T | 9351 | 9751, 9758 |
| Credential type | Clamshell | ISO glossy white[1] | Keyfob | Thin keyfob | Silicone wristband | PVC adhesive patch |
| Credential technology; ISO standard | MIFARE Classic; ISO 14443 | MIFARE Classic; ISO 14443 | MIFARE Classic; ISO 14443 | MIFARE Classic; ISO 14443 | MIFARE Classic; ISO 14443 | MIFARE Classic; ISO 14443 |
| Magnetic stripe | No | Yes[2] | No | No | No | No |
| Dimensions (H x W x T) | 3.37" x 2.125" x 0.075" | 3.37" x 2.125" x 0.033" | 2" x 1.24" x 0.38" | 1.77" x 1.18" x .06" | 0.63" x 7.68" x 0.295" | 3.37" x 2.125" x 0.033" |
| Slot punch[3] (printed guide included on ISO cards) | Vertical (standard) | Vertical or horizontal (optional) | Keyring | Keyring | N/A | Vertical (optional) |
| Memory capacity; application sectors | 2.5k bit; 5 sectors<br>1K byte/8k bit; 16 sectors | 2.5k bit; 5 sectors<br>1K byte/8k bit; 16 sectors<br>4K byte/32k bit; 40 sectors | 1K byte/8k bit; 16 sectors | 1K byte/8k bit; 16 sectors | 1K byte/8k bit; 16 sectors | 1K byte/8k bit; 16 sectors<br>4K byte/32k bit; 40 sectors |

## 13.56 MHz smart credentials

| | | | | | |
|---|---|---|---|---|---|
| Model number | 5451 | 5551 | 5540 | 5652T | 5751 |
| Credential type | Clamshell | ISO glossy white[1] | ISO glossy white[1] | Thin keyfob | PVC adhesive patch |
| Credential technology; ISO standard | MIFARE Plus SE; ISO 14443 | MIFARE Plus SE; ISO 14443 | MIFARE Plus S; ISO 14443 | MIFARE Plus SE; ISO 14443 | MIFARE Plus SE; ISO 14443 |
| Magnetic stripe | No | Yes[2] | Yes[2] | No | No |
| Dimensions (H x W x T) | 3.37" x 2.125" x 0.075" | 3.37" x 2.125" x 0.033" | 3.37" x 2.125" x 0.033" | 1.77" x 1.18" x 0.06" | 3.37" x 2.125" x 0.033" |
| Slot punch[3] (printed guide included on ISO cards) | Vertical (standard) | Vertical or horizontal (optional) | Vertical or horizontal (optional) | Keyring | Vertical (optional) |
| Memory capacity; application sectors | 1K byte/8k bit | 1K byte/8k bit | 4K byte/32k bit | 2K byte/16k bit | 1K byte/8k bit |

## 13.56 MHz smart credentials

| | | | | | | |
|---|---|---|---|---|---|---|
| Model number | 8420, 8440, 8480 | 8520, 8540, 8580 | 8720, 8740, 8780 | 2420, 2440, 2480 | 2520, 2540, 2580 | 2620T |
| Credential type | Clamshell | ISO glossy white[1] | PVC adhesive patch | Clamshell | ISO glossy white[1] | Thin keyfob |
| Credential technology; ISO standard | MIFARE DESFire EV1; ISO 14443 | MIFARE DESFire EV1; ISO 14443 | MIFARE DESFire EV1; ISO 14443 | MIFARE DESFire EV2 ISO 14443 | MIFARE DESFire EV2 ISO 14443 | MIFARE DESFire EV2 ISO 14443 |
| Magnetic stripe | No | Yes[2] | No | No | Yes[2] | No |
| Dimensions (H x W x T) | 3.37" x 2.125" x 0.075" | 3.37" x 2.125" x 0.033" | 3.37" x 2.125" x 0.033" | 3.37" x 2.125" x 0.075" | 3.37" x 2.125" x 0.033" | 2" x 1.24" x 0.38" |
| Slot punch[3] (printed guide included on ISO cards) | Vertical (standard) | Vertical or horizontal (optional) | Vertical or horizontal (optional) | Vertical (standard) | Vertical or horizontal (optional) | Keyring |
| Memory capacity; application sectors | 2K byte/16k bit<br>4K byte/32k bit<br>8K byte/64k bit | 2K byte/16k bit<br>4K byte/32k bit<br>8K byte/64k bit | 2K byte/16k bit<br>4K byte/32k bit<br>8K byte/64k bit | 2K byte/16k bit<br>4K byte/32k bit<br>8K byte/64k bit | 2K byte/16k bit<br>4K byte/32k bit<br>8K byte/64k bit | 2K byte/16k bit |

**Limited lifetime warranty** - Credentials have a lifetime warranty against manufacturers defects. See sales policy for complete warranty details.

[1] ISO glossy white style credentials are made from composite material, are printable, and can include a magnetic stripe as an option.
[2] Add M1 to the model number for a magnetic stripe when ordering. Vertical slot punch not available on magnetic stripe cards.
[3] Add SPV (vertical) or SPH (horizontal) your credential order for a slot punch. Vertical slot punch comes standard on all clamshell order. Vertical and horizontal slot punch are optional on ISO cards. Vertical slot punch not available on magnetic stripe cards.

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# Multi-technology credentials

## Overview

Schlage® multi-technology credentials combine 125 kHz proximity and 13.56 MHz smart technologies in one contactless card, simplifying access control solutions and offering flexibility for users. The credentials are compatible with proximity, smart and multi-technology card readers, allowing facilities ultimate flexibility. The open architecture design also ensures fast data transfer rates.

## Features and benefits

- Includes 125 kHz proximity and 13.56 MHz smart technologies in one credential
- Compatible with Schlage and other industry manufacturers' readers and electronic locks
- Available with MIFARE Classic®, MIFARE Plus® and MIFARE® DESFire® EV1/EV2
- CardTrax™ account tracking program helps keep track of card numbers at no additional cost
- Lifetime warranty against manufacturer's defects
- Custom artwork and laser engraving available
- Available in ISO style cards and can include a magnetic stripe
- Available in multiple memory capacities

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## 125 kHz/13.56 MHz multi-technology credentials

| Model number | 9951 | 9958 | 9691T |
|---|---|---|---|
| Credential type | ISO glossy white[1] | ISO glossy white[1] | Thin keyfob |
| Credential technology; ISO standard | Proximity/MIFARE Classic ISO 14443 | Proximity/MIFARE Classic ISO 14443 | Proximity/MIFARE Classic ISO 14443 |
| Magnetic stripe available | Yes[2] | Yes[2] | No |
| Dimensions (H x W x T) | 3.37" x 2.125" x 0.033" | 3.37" x 2.125" x 0.033" | 1.77" x 1.18" x 0.06" |
| Slot punch[3] (printed guide included on ISO cards) | Vertical or horizontal (optional) | Vertical or horizontal (optional) | Keyring |
| Memory capacity; application sectors | 1K byte/8k bit; 16 sectors | 4K byte/32k bit; 40 sectors | 1K byte/8k bit; 16 sectors |

## 125 kHz/13.56 MHz multi-technology credentials

| Model number | 5951 | 5940 | 5692T |
|---|---|---|---|
| Credential type | ISO glossy white[1] | ISO glossy white[1] | Thin keyfob |
| Credential technology; ISO standard | Proximity/MIFARE Plus SE ISO 14443 | Proximity/MIFARE Plus S ISO 14443 | Proximity/MIFARE Plus SE ISO 14443 |
| Magnetic stripe available | Yes[2] | Yes[2] | No |
| Dimensions (H x W x T) | 3.37" x 2.125" x 0.033" | 3.37" x 2.125" x 0.033" | 1.77" x 1.18" x 0.06" |
| Slot punch[3] (printed guide included on ISO cards) | Vertical or horizontal (optional) | Vertical or horizontal (optional) | Keyring |
| Memory capacity; application sectors | 1K byte/8k bit | 4K byte/32k bit | 2K byte/16k bit |

## 125 kHz/13.56 MHz multi-technology credentials

| Model number | 8920/8940/8980 | 2920/2940/2980 | 2692T |
|---|---|---|---|
| Credential type | ISO glossy white[1] | ISO glossy white[1] | Thin keyfob |
| Credential technology; ISO standard | Proximity/MIFARE DESFire EV1 ISO 14443 | Proximity/MIFARE DESFire EV2 ISO 14443 | Proximity/MIFARE DESFire EV2 ISO 14443 |
| Magnetic stripe available | Yes[2] | Yes[2] | No |
| Dimensions (H x W x T) | 3.37" x 2.125" x 0.033" | 3.37" x 2.125" x 0.033" | 2" x 1.24" x 0.38" |
| Slot punch[3] (printed guide included on ISO cards) | Vertical or horizontal (optional) | Vertical or horizontal (optional) | Keyring |
| Memory capacity; application sectors | 2K byte/8k bit; 4K byte/32k bit; 8K byte/64k bit | 2K byte/8k bit; 4K byte/32k bit; 8K byte/64k bit | 2K byte/16k bit |

[1] ISO glossy white style credentials are made from composite material, are printable, and can include a magnetic stripe as an option
[2] Add M1 to the model number for a magnetic stripe when ordering. Vertical slot punch not available on magnetic stripe cards.
[3] Add SPV (vertical) or SPH (horizontal) your credential order for a slot punch. Vertical slot punch comes standard on all clamshell order. Vertical and horizontal slot punch are optional on ISO cards. Vertical slot punch not available on magnetic stripe cards.

**Limited lifetime warranty** - Credentials have a lifetime warranty against manufacturers defects. See sales policy for complete warranty details.

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SCHLAGE®

# Proximity credentials

## Overview

Schlage® proximity credentials provide a convenient access control solution for facilities with less demanding security needs. Schlage proximity credentials are compatible with most industry-leading proximity readers, allowing them to easily integrate with new and existing proximity access control systems. From highly durable clamshell-style cards to the standard ISO style cards, keyfobs or PVC adhesive disks, Schlage offers a variety of credential formats to support a broad range of access control applications.

## Features and benefits

- 125 kHz proximity technology available in multiple form factors
- Easily integrates into existing proximity systems
- CardTrax account tracking program helps keep track of card numbers at no additional cost
- Lifetime warranty against manufacturer's defects
- Custom artwork and laser engraving available
- Available in ISO style cards and can include a magnetic stripe.
- Available in multiple memory capacities

## 125 kHz proximity credentials

| Model number | 7410 | 7510 | 7610 | 7610T | 7010 |
|---|---|---|---|---|---|
| Credential type | Clamshell | ISO glossy white[1] | Keyfob | Thin keyfob | PVC adhesive disk |
| Credential technology; ISO standard | Proximity | Proximity | Proximity | Proximity | Proximity |
| Magnetic Stripe available | No | Yes[2] | No | No | No |
| Dimensions (H x W x T) | 3.37" x 2.125" x 0.075" | 3.37" x 2.125" x 0.033" | 2" x 1.24" x 0.38" | 1.77" x 1.18" x .06" | 1.38 or 35 mm diameter |
| Slot punch[3] (printed guide included on ISO cards) | Vertical (standard) | Vertical or horizontal (optional) | Keyring | Keyring | N/A |
| Warranty | Limited lifetime - Credentials have a lifetime warranty against manufacturers defects. See sales policy for complete warranty details. | | | | |

[1] ISO glossy white style credentials are made from composite material, are printable, and can include a magnetic stripe as an option
[2] Add M1 to the model number for a magnetic stripe when ordering. Vertical slot punch not available on magnetic stripe cards.
[3] Add SPV (vertical) or SPH (horizontal) your credential order for a slot punch. Vertical slot punch comes standard on all clamshell order. Vertical and horizontal slot punch are optional on ISO cards. Vertical slot punch not available on magnetic stripe cards.

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# System components

The systems components category features a variety of devices which are utilized as part of an access control system. Products include electric strikes, electromagnetic locks, power supplies, and system accessories.

## Electric strikes

### Overview

Electric strikes provide remote release of a locked door, allowing a door to be opened without retracting the latch bolt. Von Duprin offers a selection of strikes for a variety of applications and door preps.

### Features

The 4200 Series is a great choice for commercial applications where traffic control is the primary function. It is designed for use with cylindrical locks and can be used with all Schlage and Falcon locks as well as those of many other manufacturers'.

The 5100 Series is a versatile electric strike designed for medium-duty applications, specifically to control traffic flow through interior and exterior openings in retail and commercial facilities.

Two series of heavy-duty stainless steel strike families are designed for use with rim exit devices. The 6100 Series comes in five configurations including a rim nightlatch strike. 6300 Series is a single, surface mounted strike great for aftermarket replacement.

The 6200 Series includes 17 strike configurations featuring stainless steel construction for heavy duty applications. Use them with mortise or cylindrical locks. Both the 6100 and 6200 Series are available with a variety of options including AC operation, dual switch monitoring, entry buzzer, fail secure and fail safe.

The 6400 Series is an all-in-one modular strike for both cylindrical and mortise applications. Its field configurable deadbolt keeper and dead latch ramp to allow for alignment with a wide variety of doors and frames.

### Benefits

Electric strikes can be used in standalone applications or as part of a sophisticated access control system and can be deployed on a variety of openings. In many cases electric strikes are an ideal solution for end users who are ready to migrate from mechanical to electronic access control.

# Electromagnetic locks

### Overview

The broad portfolio of Schlage electromagnetic locks offers a solution for most every application. Whether it's securing a hospital laboratory, monitoring a controlled area in an airport or providing traffic control for doors in an institutional building, Schlage electromagnetic door locks are designed to exceed the standards set by the Builders Hardware Manufacturers Association (BHMA). The portfolio encompasses a variety of hold force ratings including 500 lbs. for traffic control, 1000 lbs. for high security and 1500 lbs. for maximum security, as well as specialty locks for unique applications.

### Features

The M400 Series electromagnetic locks are available in two configurations to meet your specific security needs. M420, M450 and M490 provide basic security while models M420P, M450P and M490P provide intelligent sensing and reporting features needed to integrate with access control systems. The M400 Series is available with BHMA hold force ratings of 500 lbs, 1000 lbs and 1500 lbs.

Schlage also offers a variety of electromagnetic locks for specialty applications including the M490DE for delayed egress, 490G for gates, GF3000 shear locks for mortised/vertical doors, and the 320M for sliding door applications.

### Benefits

The M400 Series electromagnetic locks feature a bayonet mounting system that allows the installer to have their hands free during the mounting process. All M400 Series electromagnetic locks are symmetrical with field-selectable handing, allowing for optimum placement of the magnet no matter the application.

Schlage specialty electromagnetic locks are each designed with specific feature sets to optimize performance in the variety of unique, harsh and complex environments for which they are suited.

# Power supplies

### Overview

PS900 Series power supplies and accessories offer enhanced flexibility and functionality specific to the changing needs of the access control market. The PS900 Series can be used in a variety of applications to convert high voltage AC power into the low voltage DC outputs required by most access control devices. The PS900 Series protects devices downstream by providing Class 2[1], filtered and regulated power. The full line is UL 294 certified.

### Features

The PS900 Series features three Schlage branded models; PS902 - 2 amp, PS904 - 4 amp, and PS906 – 6 amp. The PS900 Series also features the Von Duprin PS914 – 4 amp with high in-rush which is designed specifically for use with electrified exit devices. The full series of power supplies can be outfitted with a variety of distribution options including basic fuse protection, simple relay, and advanced logic providing complex sequencing and timing functions.

1 PS906 can provide Class 2 rated outputs when used with 900-8P distribution board.

### Benefits

Common to the line of PS900 Series power supplies is a constant output rating at both 12v and 24v settings, universal 120 VAC to 240 VAC input, and polarized option board connectors. An optional fire alarm interface board mounting allows outputs to be configured as switched (power cut) or unswitched (power continues) when alarm signal is provided.

Installation is simplified by utilizing a flat mounting design and polarized locking connectors for option boards. This new design eliminates the need for racks and side connectors. The flat mounting of the option boards also provides for easier access to the terminal blocks for connection of electrified devices (such as electrified strikes, electromagnetic locks, card readers, etc).

# System accessories

### Overview

System accessories include a variety of devices that enable specific functionality whether in standalone applications or as part of networked access control systems. The category is comprised of pushbuttons, key switches, request-to-exit bars, monitoring stations and consoles, exit sensors, electric horns and more.

### Features

The specially designed 620/631 Series heavy-duty pushbuttons and 700 Series general purpose pushbuttons, as well as the 650 Series heavy-duty keyswitches, offer momentary or maintained SPDT or DPDT contact configurations.

The 700 Series pushbuttons are used to control the ingress and/or egress of a door.

The 620/631 Series are heavy-duty and have multiple button configurations and finish options.

The 650 Series keyswitches utilize an innovative magnetic spring design which allows installers to quickly configure both clockwise and counterclockwise key turn direction, as well as momentary or maintained action.

The 740 Series emergency break glass releases are designed for use as emergency releases of non-designated egress doors such as in individual and partitioned laboratories, secluded testing areas, or other isolated work rooms that are purposely provided with exit doors.

The 672/692 Series request-to-exit bars are non-latching releasing devices which allow egress at doors with electric locking devices, such as electromagnetic locks.

The SCAN II is a passive infrared (PIR) sensor specifically designed for request-to-exit applications.

The 8200 Series consoles provide door control and monitoring for up to eight zones. The 8204 is used for one to four zones and the 8208 for one to eight zones.

The 800/801 Series monitoring stations can provide monitoring for a single zone with up to 2 LED indicators. The 801 unit includes an audible and visual indication of lock status and delay activation.

The 660 Series mini station control is designed for concealed desk application, and it is used to release an electric or electronic locking mechanism from a remote location.

Electric horns are designed for use as an immediate local audible warning device incorporated in a security system. Horns are field selectable 12 or 24 VDC with eight combinations of volume, tone and code.

Magnetic door position switches can be used to monitor a wide range of conditions for doors, roof hatches, gates or the proximity of any two objects.

Electric power transfers (EPT) are also used when installing electrified exit devices or electrified locks. They provide a means of transferring electrical power from a door frame to the edge of a swinging door.

Electrified hinges and power transfer pivots integrate seamlessly with your access control system and your door mounted electrified hardware.

Armored door cords are used when installing electric exit devices or electric locks and provide a simple and economical solution for transferring power from frame to door.

The 442S cabinet lock by Schlage provides a versatile solution to add access control to a cabinet.

The PB405 PowerBolt is a mortise, right angle deadbolt with which is available with fail-safe or fail-secure options.

### Benefits

System accessories allow you to customize each opening to meet specific security and safety needs. Schlage offers a variety of the most popular accessories designed for medium to heavy-duty applications. By choosing Schlage components, you can be assured that the system will meet the requirements of the job, whether new construction or aftermarket.

## Power supplies - Schlage and Von Duprin

| | PS902 | PS904 | PS906 | PS914 |
|---|---|---|---|---|
| **Features** | | | | |
| Input voltage | | 120V/240V AC, 50/60 Hz, universal input | | |
| Output voltage | 2 amp @ 12V or 24V DC, field selectable | 4 amp @ 12V or 24V DC, field selectable | 6 amp @ 12V or 24V DC, field selectable | 4 amp, High Inrush @ 12V or 24V, field selectable |
| Distribution/option board connectors | 1 | 2 | 3 | 2 |
| Fire alarm plug-in connector | Yes | Yes[1] | Yes[1] | Yes[1] |
| Battery backup plug-in connector | Yes | Yes | Yes | Yes |
| **Enclosure** | | | | |
| Dimensions (H x W x D) | | 14 in x 12 in x 4 in | | |
| Key lock option | Y | Y | Y | Y |
| **Battery backup** | | | | |
| 900-BB: battery backup board only | Y | Y | Y[3] | Y |
| 900-BBK: battery backup kit | Y | Y | Y[3] | Y |
| **Option boards** | | | | |
| 900-FA: fire alarm | Y | Y (Must be installed on an option board) | Y (Must be installed on an option board) | Y (Must be installed on an option board) |
| 900-2RS: 2 relay option board | Y | Y | Y | Y |
| 900-4R: 4 relay option board | Y | Y | Y | Y |
| 900-4RL: 4 relay logic board | Y | Y | Y | Y |
| 900-8F: fuse protected 8 zone board | Y | Y | Y | Y |
| 900-8P: PTC 8 zone distribution board | Y | Y | Y (Class 2 rated on PS906 only) | Y |
| **Certifications** | | | | |
| UL 294 | Y | Y | Y | Y |
| ULC-S318 | Y | Y | Y | Y |
| Class 2 | Y | Y | Y [2] | Y |
| RoHS | Y | Y | Y | Y |
| FCC Part 15 | Y | Y | Y | Y |

1 Requires available option board for connection.

2 Class 2 rated outputs can be provided using 900-8P distribution board in conjunction with the PS906.

3 Addition of battery in compartment limits option board application to two.

## Electromagnetic locks

| | M400 electromagnetic locks | | | | |
|---|---|---|---|---|---|
| | **M420, M420P** | **M450, M450P** | **M490, M490P** | **M490DE, M490DEP** | **M490G** |
| **Features** | | | | | |
| Hold force | 500 lbs. | 1000 lbs | 1500 lbs | 1300 lbs | 1500 lbs |
| Input voltage | 12V/24V DC | 12V/24V DC | 12V/24V DC | 12V/24V DC | 12V/24V DC |
| Current draw | 0.75A @ 12V DC<br>0.38A @ 24V DC | 0.75A @ 12V DC<br>0.38A @ 24V DC | 0.65A @ 12V DC<br>0.35A @ 24V DC | .75A @ 12V DC<br>.45A @ 24V DC | 0.65A @ 12V DC<br>0.35A @ 24V DC |
| **Dimensions** | | | | | |
| Lock dimensions (H x L x W) | 2.5 in x 9 in<br>x 1.375 in | 3 in x 10.25 in<br>x 1.75 in | 3 in x 12.5 in<br>x 1.75 in | 3 in x 12.5 in<br>x 3.0625 in | 3 in x 11 in<br>x 1.75 in |
| Weight | 6 lbs | 10 lbs | 14 lbs | 16 lbs | 14 lbs |
| **Certifications** | | | | | |
| ANSI/BHMA 156.23 | Y | Y | Y | - | Y - Outdoor Rated |
| ANSI/BHMA 156.24 | - | - | - | Y | - |
| UL 10C | 3-hour | 3-hour | 3-hour | 3-hour | - |
| UL 1034 | Y | Y | Y | - | - |
| UL 294 | Y | Y | Y | Y | - |
| cUL | Y | Y | Y | Y | - |
| CSFM | Y | Y | Y | Y | - |

M490DEP also meets NFPA 101 Life Safety Code and can be ordered as BOCA compliant.

## Electromagnetic locks

| | Specialty mag locks | | |
|---|---|---|---|
| | **GF3000SM (Surface mount)** | **GF3000 (Mortise mount)** | **320M** |
| **Features** | | | |
| Hold force | 3000 lbs | 3000 lbs | 400/550 lbs |
| Input voltage | 12V/24V DC | 12V/24V DC | 12V/24V DC |
| Current draw | 0.90A @ 12V DC<br>0.45A @ 24V DC | 0.90A @ 12V DC<br>0.45A @ 24V DC | 0.23A @12V DC<br>0.45A @ 24V DC |
| **Dimensions** | | | |
| Lock dimensions (H x L x W) | 1.875 in X 9.8125 in X 2 in | 1.5 in X 9.5 in X 1.5 in | 1.375 in x 7 in x 1.875 in |
| Weight | 9 lbs | 7 lbs | 6 lbs |
| **Certifications** | | | |
| ANSI/BHMA 156.23 | Y | Y | N/A |
| ANSI/BHMA 156.24 | - | - | - |
| UL 10C | 3-hour | 3-hour | 3-hour |
| UL 1034 | Y | Y | - |
| UL 294 | - | - | - |
| cUL | Y | Y | Y |
| CSFM | Y | Y | Y |

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# 4200 Series

## Electric strike for cylindrical locks and deadlatches

## Overview

4200 Series is designed to offer versatility in two commercial-duty electric door strike models. They are a great choice for applications where interior traffic control is the primary function. And with their solid construction and heavy-duty stainless steel faceplate, they meet ANSI/BHMA Grade 1 for endurance and dynamic strength.

Designed for compatibility with a wide range of cylindrical devices, they are able to address a broad range of needs. You'll find 4200 Series strikes work with all Schlage and Falcon cylindrical locks as well as those of many other manufacturers.

These reliable strikes are easy to order, configure and install. Field selectable options include changing fail safe and fail secure modes without disassembly. They also feature a 12/24 dual-voltage solenoid for field wiring of either input voltage. Factory orderable options include an entry buzzer and rectifier kits to provide even greater flexibility and available parts include square or round cornered ANSI faceplates.

## Features and benefits

- Designed for cylindrical applications
- Capable of four in-field configurations
- Shallow 1-3/8" backbox depth
- Field selectable 12/24 VDC voltage
- Non-handed, internal solenoid design
- Low current draw for PoE installations
- Field selectable power failure mode (fail-safe/fail-secure) without disassembly
- Heavy-duty stainless steel faceplate
- Latchbolt monitoring available (4212 model)
- Options include entry buzzer and rectifier kits
- Suitable for interior and exterior doors
- Meets ANSI/BHMA A156.31, Grade 1 for endurance and dynamic strength
- Meets ANSI/BHMA A156.31, Grade 2, 1000 lbs static strength
- Dynamic strength 70 ft-lbs
- Endurance 500,000 cycles

# Lockset compatibility

The 4200 series is compatible with all Schlage and Falcon cylindrical locks as well as cylindrical and deadlatch locks of many other manufacturers.

- The 4211 is compatible with locksets with 5/8" (15 mm) throw latchbolts, or up to 3/4" (19mm) throw latchbolts with a 1/8" door gap.
- The 4212 is compatible with locksets with 1/2" (12.7mm) throw latchbolts, or up to 5/8" (15 mm) throw latchbolts with a 1/8" door gap.

## 4200 Series power requirements

| Model | Voltage | Current | Duty | Amps | Ohms |
|---|---|---|---|---|---|
| 4211 or 4212 | 12V | DC | Continuous | 0.20 | |
| 4211 or 4212 | 24V | DC | Continuous | 0.10 | |

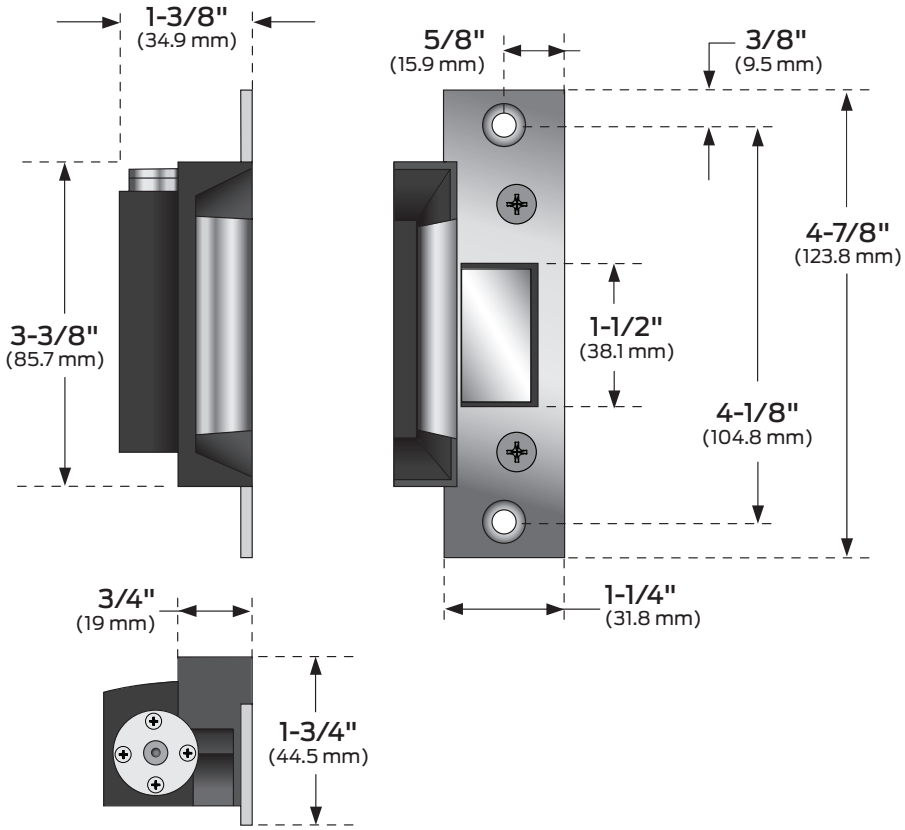
**4212 Latchbolt monitor switch rating**: 30VDC at 0.20 A

The 4200 series requires a DC regulated power supply, and the Schlage PS900 series power supplies are recommended.
Continuous duty = Energized 1 minute or more

## Model specifications

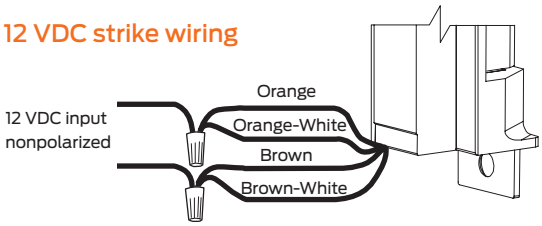
| | | | |
|---|---|---|---|
| Model number | | 4211 | 4212 |
| Retrofits model | | HES 5200, RCI 6 Series | HES 5000, RCI 6 Series |
| Latchbolt throw | | 3/4" | 5/8" |
| Latchbolt monitor switch | | --- | ■ |
| Face plate length | | 4 7/8" | 4 7/8" |
| Backbox depth | | 1 3/8" | 1 3/8" |
| Finish (faceplate) | | BHMA 630/US32D | |
| Lockset | Cylindrical | ■ | ■ |
| | Deadlatch | ■ | ■ |
| | Mortise | --- | --- |
| Number of doors | Single | ■ | ■ |
| | Pair | --- | --- |
| Frame type | Hollow metal | ■ | ■ |
| | Aluminum | ■ | ■ |
| | Wood | --- | --- |
| Options | EB (entry buzzer - fail-secure only) | ■ | ■ |
| | S012 & S024 rectifier kit for AC to DC operation | ■ | ■ |

# Dimensions

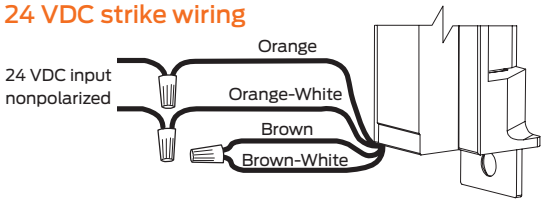



# Wiring

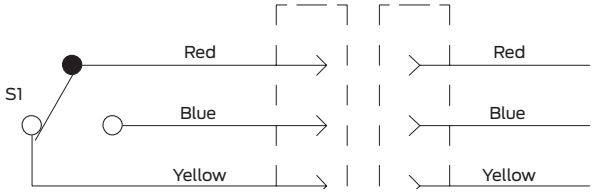
## 12 VDC strike wiring




## 24 VDC strike wiring




## Latchbolt monitoring switch (4212 only)




Switch shown with latch status tripper depressed

# Ordering information

4200-S024-EB

| Model | Rectifier kit* | Buzzer* |
|---|---|---|
| 1 | 2 | 3 |

* Optional

**Selections correspond with the numbers above**

| 1 | Model |
|---|---|
| 4211 | See model specification chart to make the proper selection |
| 4212 | See model specification chart to make the proper selection |
| **2** | **Rectifier kit (optional)** |
| S012 | Converts 12 VAC voltage to 12 VDC to operate the solenoid |
| S024 | Converts 24 VAC voltage to 24 VDC to operate the solenoid |
| **3** | **Buzzer (optional)** |
| EB | Entry Buzzer, with fail-secure (FSE) configured |

## Standard features

- Power failure mode: Field configurable fail-secure/fail-safe
- Voltage: Field configurable 12 VDC/24 VDC dual voltage solenoid
- Finish: BHMA 630/US32D satin stainless steel
- Includes mounting tabs, fail secure conversion hex key, wood and machine screws, plus a suppressing diode.

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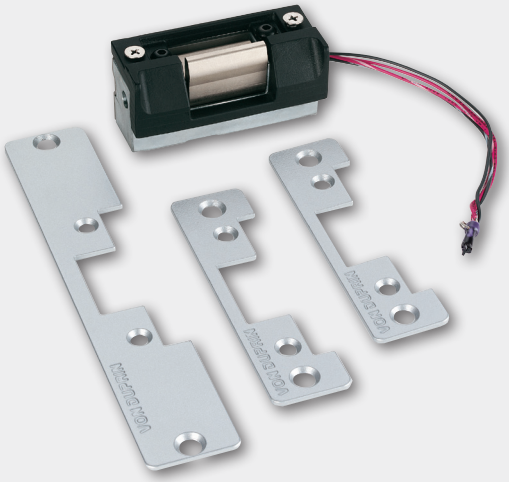
# 5100 Series

## Electric strike for cylindrical locksets and deadlatches



## Overview

The Von Duprin 5100 Series electric door strike has been designed to offer flexibility and convenience for locksmiths and security professionals alike. This easy-to-install electric strike was created for medium-duty applications, specifically to control traffic flow through interior and exterior openings in retail and commercial environments.

The 5100 electric strike is compatible with a wide range of cylindrical devices and is extremely versatile for field conversions. The combination of three faceplate options plus field selectable voltage and power fail modes allows it to be changed on the job site to create as many as 12 different configurations. An adjustable keeper also improves fit for applications with weather stripping or tight door preps. In short, the 5100 provides added convenience by ensuring the right parts are in the box to get the job done.

Like other Von Duprin strikes, the 5100 was developed to meet high standards and engineered for reliability and quality. Its durable construction and tamper-resistant design stands up to abuse and is tested to over one million cycles.

## Features and benefits

- Designed for cylindrical applications
- Capable of 12 in-field configurations
- Three faceplates standard in every box
- Field selectable 12/24 voltage
- Non-handed, internal solenoid design
- Field selectable power failure mode (fail-safe/ fail-secure)
- Adjustable keeper improves fit on tight door preps
- Options include 12 and 24 VAC to VDC rectifier kits
- Available in three finishes to suite with existing hardware
- Suitable for interior and exterior doors

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## 5100 Series power requirements

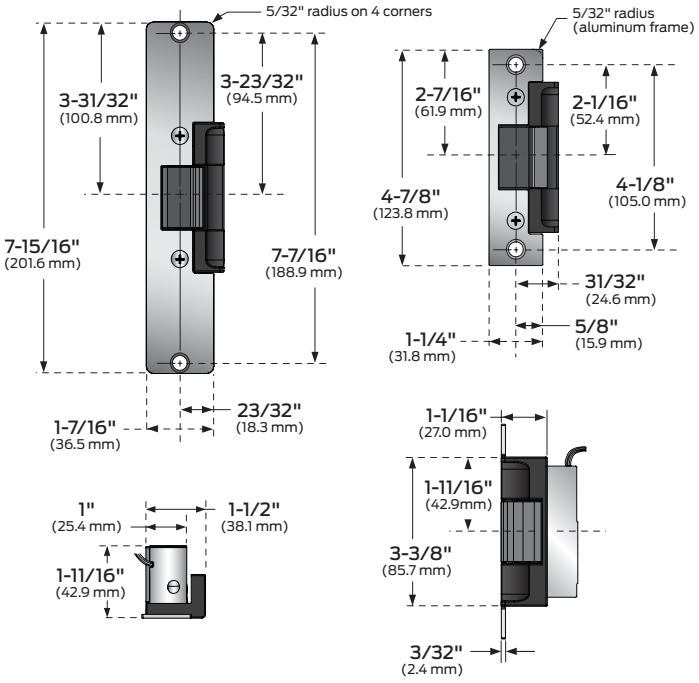
| Model | Voltage | Current | Duty | Amps | Ohms |
|---|---|---|---|---|---|
| 5100 | 12V | DC | Continuous | 0.38 | 32 |
| 5100 | 24V | DC | Continuous | 0.19 | 128 |

Continuous duty = Energized 1 minute or more

## Model specifications

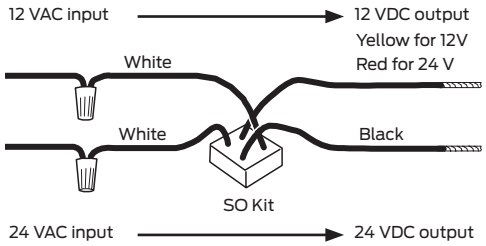
| | |
|---|---|
| Model number | 5100 |
| Retrofits model | HES 5000C, 5200C, RCI 7 Series |
| Latchbolt throw | 1/2" to 5/8" (1/2" keeper depth) |
| Face plate length | 4 7/8" or 7 15/16" |
| Backbox depth | 1 11/16" |
| Lockset | Cylindrical and deadlatch |
| Number of doors | Single |
| Frame type | Hollow metal, aluminum and wood |
| Application notes | Versatile electric strike for aftermarket, covering multiple applications in one SKU. |

**Lockset compatibility:** Keeper depth of 1/2" is sufficient to accommodate all cylindrical locks up to 5/8" throw and most aluminum narrow stile deadlatches.

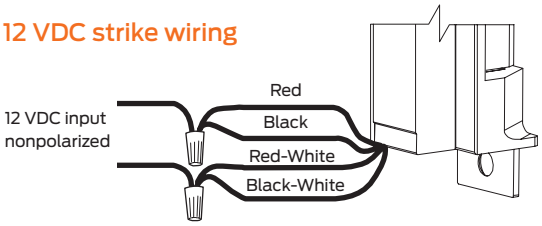



Solenoid power requirements; 12VDC, 0.38 A, 24 VDC, 0.19 A

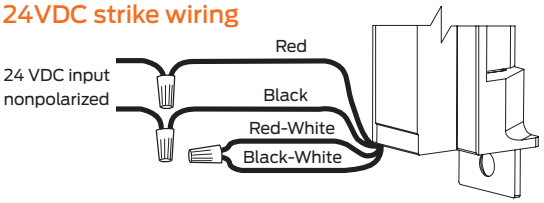
For DC operation, Von Duprin PS902 series power supply is recommended.
For AC operation, Von Duprin SO24 kit is recommended.




### 12 VDC strike wiring




### 24VDC strike wiring




# Ordering information

5100-US19-S024

| Model | Finish | Rectifier kit* |
|---|---|---|
| 1 | 2 | 3 |

* Optional

**Selections correspond with the numbers above**

| 1 | Model |
|---|---|
| 5100 | Electric strike for cylindrical locksets |
| **2** | **Finish** |
| US SP28/BHMA 689 | Aluminum |
| US 19/BHMA 622 | Flat Black |
| US SP313/BHMA 695 | Dark brown |
| **3** | **Rectifier kit (optional)** |
| S012 | Converts 12 VAC voltage to 12 VDC to operate the solenoid |
| S024 | Converts 24 VAC voltage to 24 VDC to operate the solenoid |

### Standard features

- Power failure mode: Field configurable fail-secure/fail-safe
- Voltage: Field configurable 12VDC/24 VDC dual voltage solenoid
- Mounting tabs and shims
- Self-adhesive neoprene filler for retrofits

### About Allegion

Allegion (NYSE: ALLE) is a global pioneer in seamless access, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion secures people and assets with a range of solutions for homes, businesses, schools and institutions. Allegion had $2.9 billion in revenue in 2019 and sells products in almost 130 countries. For more, visit **www.allegion.com**

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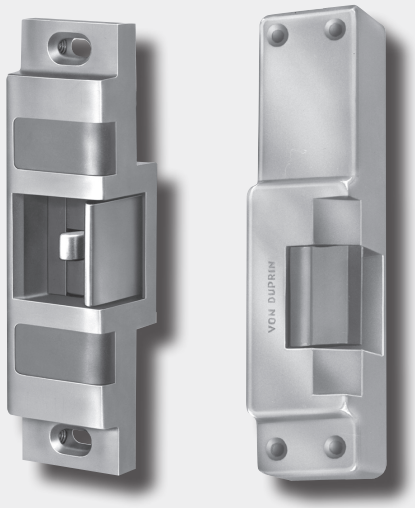
# 6100 Series

## Strikes for rim exit devices



## Overview

Von Duprin electric strikes are known for their reliability, durability and security. The 6100 Series strikes are designed to withstand abuse. Their heavy-duty stainless steel construction is UL1034 listed.

6100 Series electric door strikes are designed for use with a variety of rim exit devices including rim nightlatch. Electrified strikes allow remote release of a locked door by activating a movable lip (keeper) using an entry/exit button or credential reader and can be a cost effective means for managing access. 6100 Series strikes come standard as 24 VDC in fail secure mode. 12 VDC and AC operation can be selected, as can fail safe mode and other options that enable you to configure these strikes to fit your exact needs.

Use 6100 Series electric strikes for retrofit applications or new construction. To assure the proper selection of an electric strike on new applications, lockset compatibility charts are shown on the next page. When using a lockset not listed or if retrofitting a strike to an existing application, please contact Von Duprin technical support for application assistance.

## Features and benefits

- Five configurations available for rim exit and nightlatch devices
- Heavy-duty stainless steel construction
- Strike box allows horizontal adjustment to compensate for misalignment of the door or frame
- 24 VDC standard with 12 VDC and AC operation optional
- Two-piece plug connectors are furnished for ease of installation and removal during strike servicing
- Options include rectifier kit for VAC to VDC conversion, dual monitor switches, entry buzzer and Allegion Connect wire extension
- Six popular finishes available to suite with existing hardware
- Suitable for interior or exterior doors
- UL 10C 3-hour fire-rated electric strike (models 6111, 6112 and 6113 – fail secure only)
- UL 1034 listed for burglary-resistant electric door strikes

## Model specifications

| | | 6111 | 6112 | 6113 | 6114 | 6121 |
|---|---|---|---|---|---|---|
| Model number | | 6111 | 6112 | 6113 | 6114 | 6121 |
| Retrofits model | | VD 3031 | FA 310-4 | VD 3011<br>VD 3021 | FA 310-5 | FA 310-4-100 |
| Latchbolt throw | | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" |
| Face plate length | | 6" | 9" | 6" | 7 1/2" | 9 1/8" |
| Backbox depth | | 1 5/8" | 1 11/16" | 1 15/16" | N/A | N/A |
| Lockset | | Rim exit device | Rim exit device | Rim exit device | Rim nightlatch | Rim exit device |
| Number of doors | Single | ■ | ■ | ■ | ■ | --- |
| | Double door with mullion | ■ | --- | --- | --- | --- |
| | Double door without mullion | --- | --- | --- | --- | ■ |
| Door/frame type | Hollow metal | ■ | ■ | ■ | ■ | ■ |
| | Aluminum | ■ | ■ | ■ | ■ | ■ |
| | Wood | ■ | ■ | ■ | --- | ■ |
| Options | Blade stop shim | Yes | No | Yes | No | No |
| | DS or DS-LC (dual monitor switches) | Yes | Yes | Yes | Yes | Yes |
| | EB (entry buzzer - fail-secure only) | Yes | Yes | Yes | Yes | Yes |
| Certifications/ Listings | UL 1034 | ■ | ■ | ■ | ■ | ■ |
| | UL 10C Single Door | 3 hour | 3 hour | 3 hour | --- | --- |
| | UL 10C Pair Door* | 90 minutes | 90 minutes | 90 minutes | --- | --- |
| Application notes | | 1 | 2 | 3 | 4 | 5 |

*With manufacturer's mullion.

Note: 16 VDC and 28 VDC solenoid are sold as replacement parts for existing strikes. Please contact customer care for details.

**Application notes:**

1. 1/2" projection blade stop shim 010055-XX available for use on cased opening or blade stop frames. Specify when using 55 rim devices. May also be used with vertical rod exit devices noted on previous page x Pullman latch LBR (non-fire rated).
2. When used to replace Folger Adam 310-4, minor fame prep modification required.
3. 1/2" projection blade stop shim 010055-XX available for use on cased opening or blade stop frames (non-fire rated).
4. Surface applied strike designed to replace Folger Adam 310-5 with different mounting hole locations from Folger Adam.
5. Designed to mount on inactive leaf.

## Rim exit device compatibility 6111, 6112, 6113 and 6121 strikes

| Manufacturer | Device |
|---|---|
| Von Duprin | 22, 33A, 35A, 55[1], 88, 98, 99<br>8827 LBR[4] x Pullman latch Non-Fire rated<br>9827 LBR[4] x Pullman latch Non-Fire rated<br>9927 LBR[4] x Pullman latch Non-Fire rated |
| Falcon Monarch [2] | XX-R, 18-R, 19-R, 24-R, 25-R |
| Falcon Doromatic | 1790 |
| Precision[2] | 2100 |
| Sargent | 2800, 6500, 6800, 8500, 8800, 9500, 9800[3], 9898 |
| Yale | 1500, 700 |

1. Strike must be factory modified, specify when using with a 55 Rim device.
2. Deadlocking feature will not properly function, consult factory.
3. Panic only, not fire-rated.
4. 6111 is recommended for LBR applications.

Note: When using a lockset not listed or when retrofitting an existing application, please contact Von Duprin technical support for application assistance.

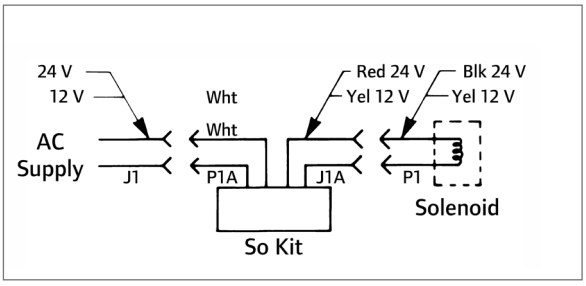
## 6100 Series power requirements

| Models | Voltage | Current | Duty | Amps | Ohms |
|---|---|---|---|---|---|
| All | 12V | DC | Continuous | 0.60 | 21 |
| All | 24V | DC | Continuous | 0.33 | 83 |

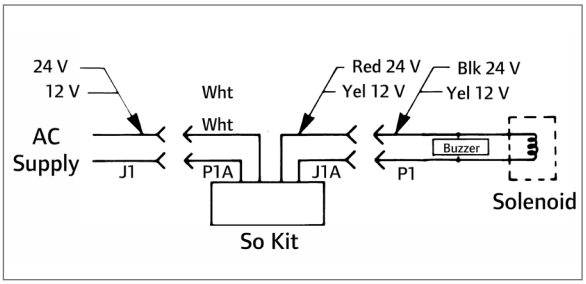
Continuous duty = Energized 1 minute or more

# Wiring

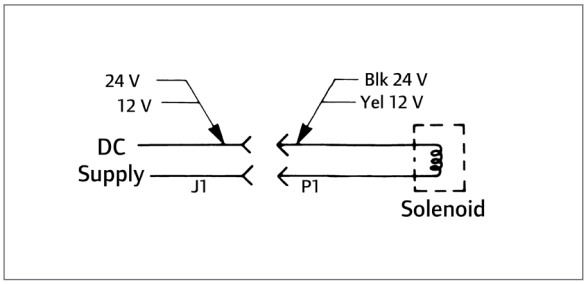
**AC**



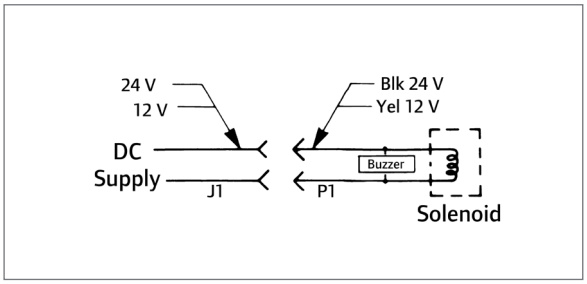

**AC with buzzer**



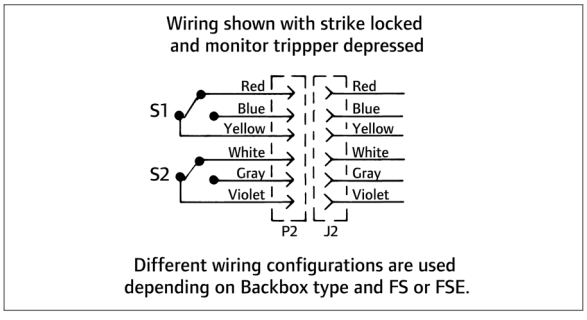

**DC**




**DC with Buzzer**

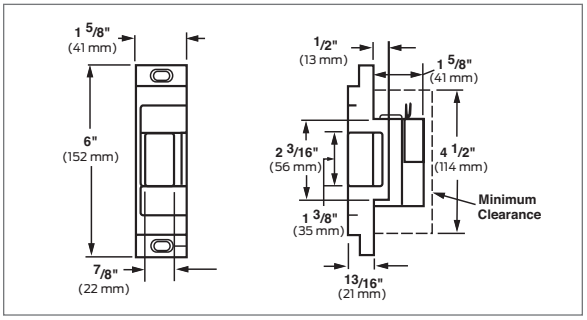



**Optional DS (FSE Shown)**

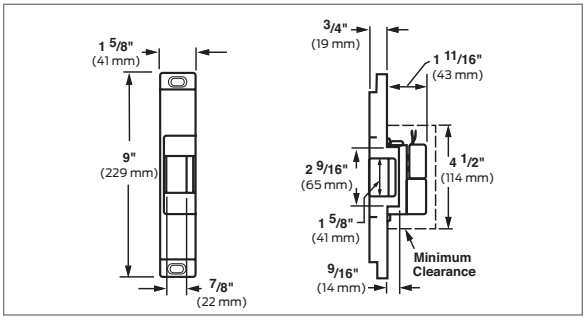



# Dimensions

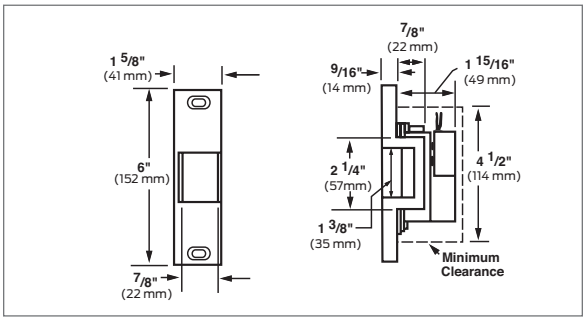
**6111**



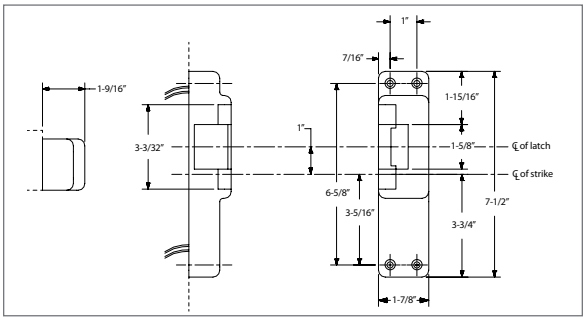

**6112**



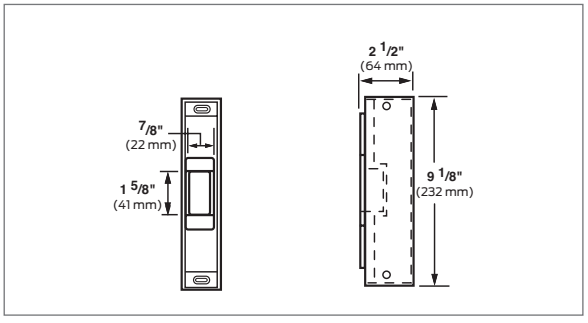

**6113**




**6114**




**6121**



# Ordering information

6112-FSE-DS-24-S024-US3-EB-CON

| Model | Power failure mode | Dual switch* | Voltage | Rectifier kit* | Finish | Buzzer* | Allegion Connect* |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

* Optional

**Selections correspond with the numbers above**

| 1 | Model |
|---|---|
| Reference specification chart to make the proper model selection | |
| **2** | **Power failure mode** |
| FSE | Fail-secure. Requires power to be applied to unlock the strike lip. On loss of power, the strike lip is locked. **Fire-rated.** |
| FS | Fail-safe. Requires power to be applied to lock the strike lip. On loss of power, the strike lip is unlocked. **Non-fire-rated.** |
| **3** | **Dual switch (optional)** |
| DS | Monitors latch bolt and lock status. DS switches rated for 24 VDC at .050 - 2.0 amps. |
| DS-LC | Low current option for computer monitoring. Monitors latch bolt & lock status. DS-LS switches rated for 24 VDC at .050 amp or less. |
| **4** | **Voltage (VDC)** |
| 24 | Low voltage DC power |
| 12 | Low voltage DC power |
| If AC power is required, specify rectifier kit. | |
| **5** | **Rectifier kit (optional)** |
| S012 | Converts 12 VAC voltage to 12 VDC to operate the solenoid |
| S024 | Converts 24 VAC voltage to 24 VDC to operate the solenoid |
| **6** | **Finish** |
| US3/BHMA 605 | Plated polished brass on stainless steel |
| US4/BHMA 606 | Plated satin brass on stainless steel |
| US10/BHMA 612 | Plated satin bronze on stainless steel |
| US10B/BHMA 613 | Plated dark bronze, oil rubbed on stainless steel |
| US32/BHMA 629 | Stainless steel, polished |
| US32D/BHMA 630 | Stainless steel, satin |
| **7** | **Buzzer (optional)** |
| EB | Entry Buzzer |
| Only available if Fail-Secure (FSE) is specified. | |
| **8** | **Allegion Connect** |
| CON | Allegion Connect Connector |
| 6 in. wire extension harness available | |

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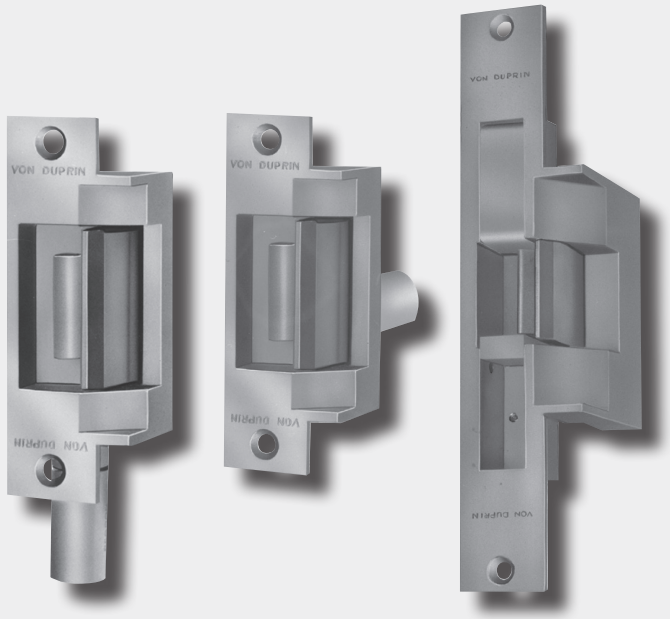
# 6200 Series

## Strikes for mortise or cylindrical devices




## Overview

Von Duprin electric strikes are known for their reliability, durability and security. The 6200 Series strikes are designed to withstand abuse. Their heavy-duty stainless steel construction is fully UL 1034 and UL 10C listed.

6200 Series electric door strikes are designed for use with a variety of mortise or cylindrical locksets. Electrified strikes allow remote release of a locked door by activating a movable lip (keeper) using an entry/exit button or credential reader and can be a cost effective means for managing access. 6200 Series strikes come standard as 24 VDC in fail secure mode. 12 VDC and AC operation can be selected, as can fail safe mode and other options that enable you to configure these strikes to fit your exact needs.

Use 6200 Series electric strikes for retrofit applications or new construction. To assure the proper selection of an electric strike on new applications, lockset compatibility charts are shown on the next page. When using a lockset not listed or when retrofitting a strike to an existing application, please contact Von Duprin Technical Support for application assistance.

## Features and benefits

- 17 configurations available for cylindrical and mortise applications
- Heavy-duty stainless steel construction
- 24 VDC standard with 12, 16 and 28 VDC operation optional
- Two-piece plug connectors are furnished for ease of installation and removal during strike servicing
- Options include rectifier kit for VAC to VDC conversion, dual monitor switches, entry buzzer and Allegion Connect wire extension
- Six popular finishes available to suite with existing hardware
- Suitable for interior and exterior doors
- UL 10C 3-hour fire-rated (fail secure only)
- UL 1034 listed for burglary-resistant electric door strikes

* Certification detail is listed within Model Specifications

## 6200 Series power requirements

| Models | Voltage | Current | Duty | Amps | Ohms |
|---|---|---|---|---|---|
| All | 12V | DC | Continuous | 0.60 | 21 |
| All | 16V | DC | Continuous | 0.40 | 38 |
| All | 24V | DC | Continuous | 0.33 | 83 |
| All | 28V | DC | Continuous | 0.25 | 111 |

Continuous duty = Energized 1 minute or more

## Mortise lockset compatibility[1, 3]

6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 and 6226 strikes

| Manufacturer | Model number |
|---|---|
| Von Duprin | 7500 |
| Adams Rite | 4510, 4710 |
| Baldwin | 6000 |
| Best | 24H, 30H |
| Corbin | 9000 |
| Falcon | M2300, M2500, M2600, M3300, M3500, M3600 |
| Precision | Mortise |
| Russwin | Mortise |
| Sargent | 7700, 8100, 9000 |
| Schlage | L9000, K30, K40, K50, K60 |
| Yale | 7030, 7130, 8600, 8700 |

## Mortise lockset compatibility[1, 3]

6210

| Manufacturer | Model number |
|---|---|
| Von Duprin | 7500 |
| Best | 30H (not 45H/47H) |
| Corbin/Russwin | ML2200, 5000, 9000, CR2200 (not 2000) |
| Falcon | M100, M200, M300, M400, M500, M600 |
| Sargent | 7700, 8100 (not 7800/8200) |
| Schlage | L9000 |
| Yale | 8700 (not 8800) |

## Cylindrical lockset compatibility[1, 3]

6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 and 6226 strikes

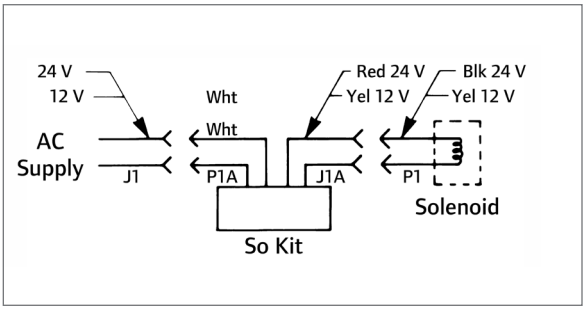
| Manufacturer | Cylindrical latchbolt projection |
|---|---|
| Baldwin | 1/2" – 3/4" (13 mm – 19 mm) |
| Best | 3/8" – 3/4" (10 mm – 19 mm)[2] |
| Corbin | 1/2" – 3/4" (13 mm – 19 mm) |
| Falcon | 1/2" – 3/4" (13 mm – 19 mm) |
| Russwin | 1/2" – 3/4" (13 mm – 19 mm) |
| Sargent | 1/2" – 3/4" (13 mm – 19 mm) |
| Schlage | 3/8" – 3/4" (10 mm – 19 mm)[2] |
| Yale | 1/2" – 3/4" (13 mm – 19 mm) |

Note: When using device not listed or when retrofitting a strike to an existing application, please contact Von Duprin Technical Support for application assistance.

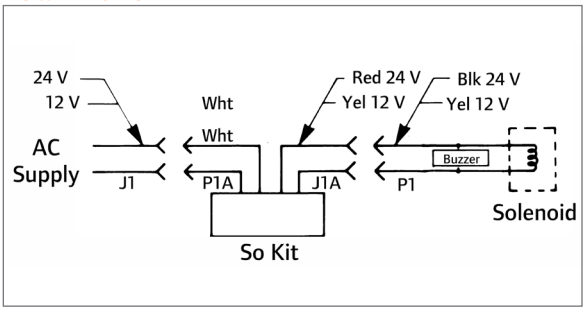
1. Von Duprin cannot guarantee compatibility, as other manufacturer's designs may change without notice.
2. Signalling may not function when using 3/8" (10 mm) throw bolt. Deadlocking cannot be guaranteed with all locks.
3. When using a lockset not listed or when retrofitting a strike to an existing application, please contact Von Duprin Technical Support for assistance.

# Wiring

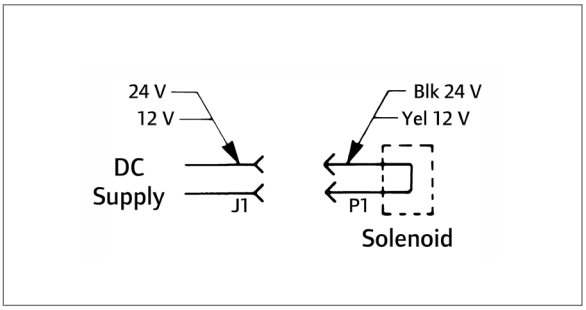
### AC



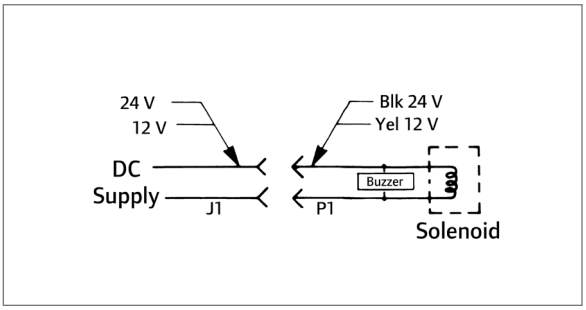

### AC with Buzzer



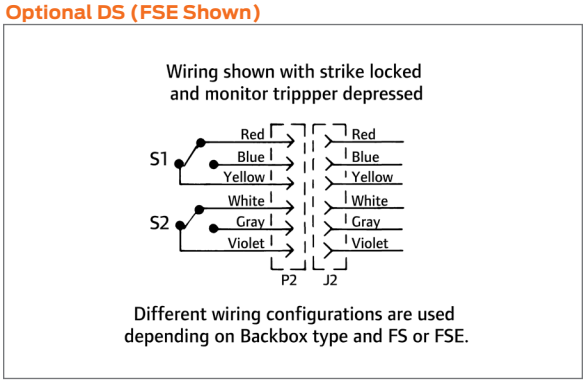

### DC




### DC with Buzzer




### Optional DS (FSE Shown)



## Model specifications

| | | | | | | |
|---|---|---|---|---|---|---|
| Model number | | 6210 | 6211 | 6211AL | 6211WF | 6212 |
| Retrofits model | | N/A | VD 3140<br>FA 712 | FA 722 | FA 732 | VD 3146 |
| Latchbolt throw | | ¾" | ¾" | ¾" | ¾" | ¾" |
| Face plate length | | 4 ⅞" | 4 ⅞" | 4 ⅞" | 4 ⅞" | 6 ⅜" |
| Backbox depth | | 1 ¾" | 1 11/16" | 1 11/16" | 4 ½" | 1 21/32" |
| Lockset | Mortise without deadbolt | ■ | ■ | ■ | ■ | ■ |
| | Mortise with deadbolt 1" throw | --- | --- | --- | --- | --- |
| | Cylindrical | --- | ■ | ■ | ■ | ■ |
| Number of doors | Single | ■ | ■ | ■ | ■ | ■ |
| | Pair | --- | --- | --- | --- | --- |
| Door and frame type | Hollow metal | ■ | ■ | --- | --- | ■ |
| | Aluminum | ■ | ■ | ■ | --- | ■ |
| | Wood | --- | --- | --- | ■ | --- |
| Options | DS or DS-LC (dual monitor switches) | ■ | ■ | ■ | ■ | ■ |
| | EB (entry buzzer - fail-secure only) | ■ | ■ | ■ | ■ | ■ |
| | 28 VDC AC rectifier kit | ■ | ■ | ■ | ■ | ■ |
| | 16 VDC solenoid | ■ | ■ | ■ | ■ | ■ |
| Certifications/ Listings | UL 1034 | ■ | ■ | ■ | ■ | ■ |
| | UL 10C | 3 hour | 3 hour | 3 hour | 3 hour | 3 hour |
| | ANSI/BHMA 156.31, Grade 1 | --- | ■ | ■ | ■ | --- |
| Application Notes | | 1 | 1 | --- | 2 | 3 |

**Application notes:**

1. For use in ANSI prep at standard height. Strike pocket inserts are provided to accommodate different manufacturers deadlocking trigger locations.
2. Designed to replace Folger Adams 732. Wood frame horizontal solenoid location differs from Folger Adams. Requires additional frame prep when retrofitting.
3. Fits modified ANSI 115.2 cutout. Designed to replace Von Duprin 3146.

## Model specifications

| Model number | | 6212WF | 6213 | 6214 | 6215 | 6216 | 6221 |
|---|---|---|---|---|---|---|---|
| Retrofits model | | N/A | VD 3041, 3042, 3061, 3062 | FA 310-2 3/4 | FA 310-2 | FA 310-3-1 | VD 3071 VD 3072 |
| Latchbolt throw | | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" |
| Face plate length | | 6 3/8" | 6" | 9" | 9" | 9" | 6" |
| Backbox depth | | 4 1/2" | 2 1/2" | 2" | 1 5/8" | 2 7/8" | 4 3/4" |
| Lockset | Mortise without deadbolt | ■ | ■ | ■ | ■ | --- | ■ |
| | Mortise with deadbolt 1" throw | --- | --- | --- | --- | ■ | --- |
| | Cylindrical | ■ | ■ | ■ | ■ | --- | ■ |
| Number of doors | Single | ■ | ■ | ■ | ■ | ■ | --- |
| | Pair | --- | --- | --- | --- | --- | ■ |
| Door and frame type | Hollow metal | --- | ■ | ■ | ■ | ■ | ■ |
| | Aluminum | --- | ■ | ■ | ■ | ■ | ■ |
| | Wood | ■ | See note 1 below | --- | --- | ■ | ■ |
| Options | DS or DS-LC (dual monitor switches) | ■ | ■ | ■ | ■ | ■ | ■ |
| | EB (entry buzzer - fail-secure only) | ■ | ■ | ■ | ■ | ■ | ■ |
| | 28VDC AC rectifier kit | ■ | ■ | ■ | ■ | ■ | ■ |
| | 16VDC solenoid | ■ | ■ | ■ | ■ | ■ | ■ |
| Certifications/ Listings | UL 1034 | ■ | ■ | ■ | ■ | ■ | ■ |
| | UL 10C | 3 hour | 3 hour | 3 hour | 3 hour | 3 hour | 3 hour* |
| Application notes | | --- | 1 | --- | --- | 2 | 3 |

* When pair door has inactive leaf.

**Application notes:**

1. Includes wood frame for retrofit applications.
2. Deadbolt must be manually operated.
3. Open back electric strike for use on 1 3/4" (44 mm) thick double door applications. 4 3/4" (120 mm) minimum stile required. For a concealed vertical rod and mortise device combination, specify "A" backbox.

## Model specifications

| Model number | | 6222 | 6223 | 6224 | 6224AL | 6225 | 6226 |
|---|---|---|---|---|---|---|---|
| Retrofits model | | FA 310-2 ¾ OB | VD 3091<br>VD 3092 | FA 310-2 ¾ | FA 310-2RF | FA 310-2 OB | FA 310-2 |
| Latchbolt throw | | ¾" | ¾" | ¾" | ¾" | ¾" | ¾" |
| Face plate length | | 9" | 6" | 9" | 9" | 9" | 9" |
| Backbox depth | | 2" | 4 ½" | 2" | 1 ⅝" | 1 ⅝" | 1 ⅝" |
| Lockset | Mortise without deadbolt | ■ | ■ | ■ | ■ | ■ | ■ |
| | Mortise with deadbolt 1" throw | --- | --- | --- | --- | --- | --- |
| | Cylindrical | ■ | ■ | ■ | ■ | ■ | ■ |
| Number of doors | Single | --- | --- | --- | --- | --- | --- |
| | Pair | ■ | ■ | ■ | ■ | ■ | ■ |
| Door and frame type | Hollow metal | ■ | ■ | ■ | --- | ■ | ■ |
| | Aluminum | ■ | ■ | ■ | ■ | ■ | ■ |
| | Wood | --- | ■ | --- | --- | --- | --- |
| Options | DS or DS-LC (dual monitor switches) | ■ | ■ | ■ | ■ | ■ | ■ |
| | EB (entry buzzer - fail-secure only) | ■ | ■ | ■ | ■ | ■ | ■ |
| | 28VDC AC rectifier kit | ■ | ■ | ■ | ■ | ■ | ■ |
| | 16VDC solenoid | ■ | ■ | ■ | ■ | ■ | ■ |
| Certifications/ Listings | UL 1034 | ■ | ■ | ■ | ■ | ■ | ■ |
| | UL 10C | 3 hour* | 3 hour* | 3 hour* | 3 hour* | 3 hour* | 3 hour* |
| Application notes | | 1 | 2 | 3 | 4 | 5 | 6 |

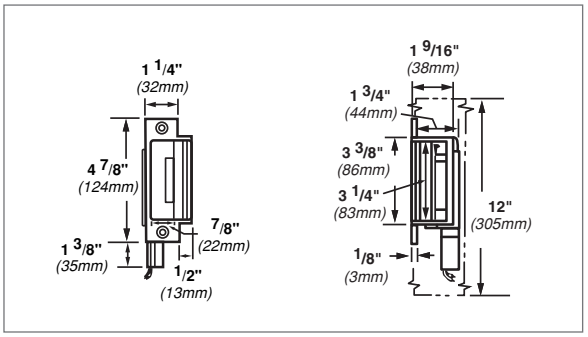
* When pair door has inactive leaf.

**Application notes:**

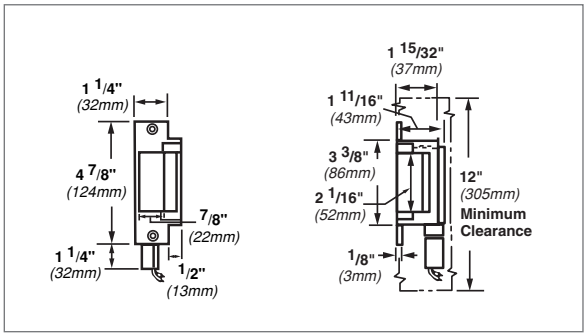
1. Open back electric strike for use on 1 ¾" (44 mm) thick double door applications
2. Closed back electric stirke for use on 1 ¾" (44 mm) thick double door applications. 4 ¾" (120 mm) minimum stile required. For a concealed vertical rod and mortise device combination specify “A” backbox.
3. Closed back electric strike for use on 1 ¾" (44 mm) or 2 ¼" (57 mm) thick double door applications.
4. Closed back electric strike for use on 1 ¾" (44 mm) or 2 ¼" (57 mm) thick aluminum double door applications.
5. Open back electric stirke for use on 1 ¾" (44 mm) thick double door applications.
6. Closed back electric strike for use on 1 ¾" (44 mm) or 2 ¼" (57 mm) thick double door applications.

# Dimensions

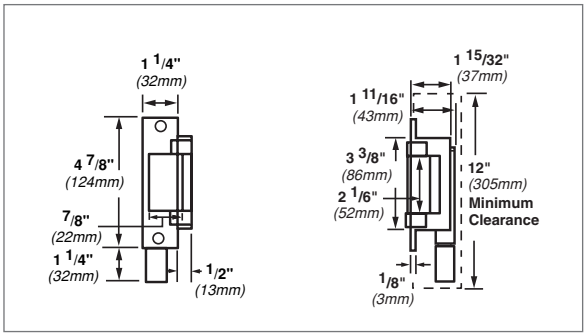
## 6210



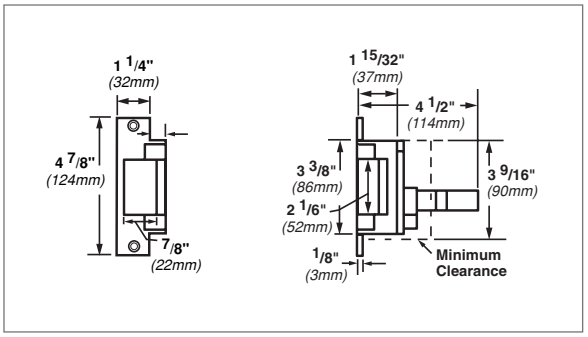

## 6211




## 6211AL




## 6211WF

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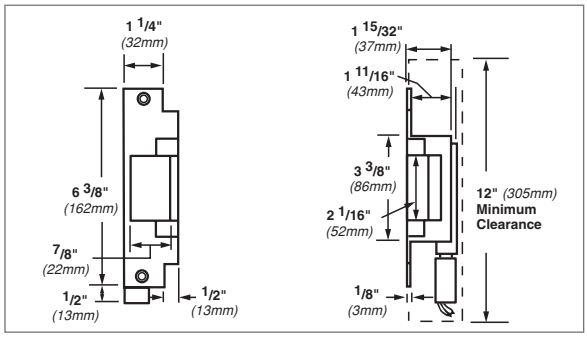
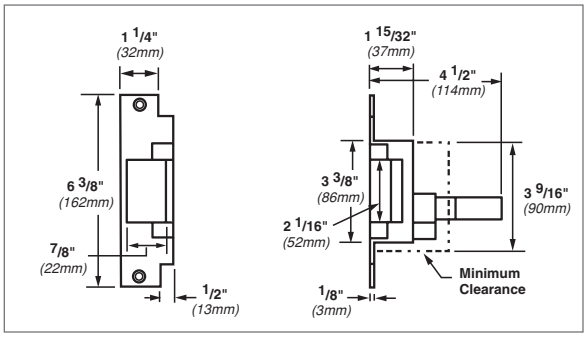



## 6212WF

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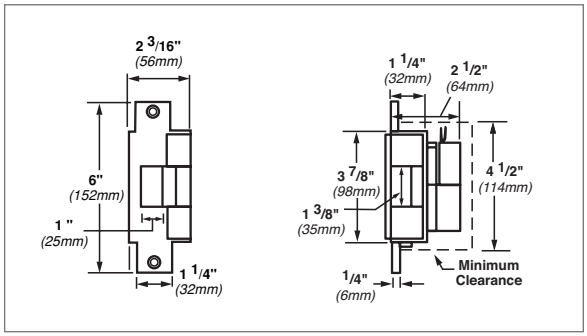


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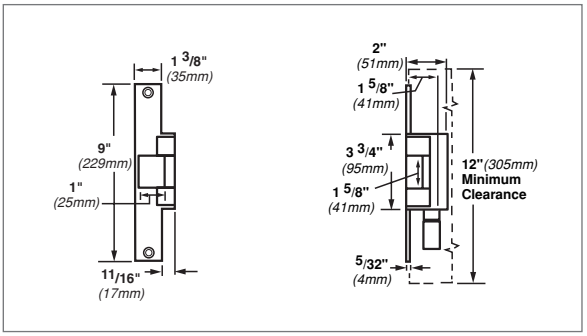
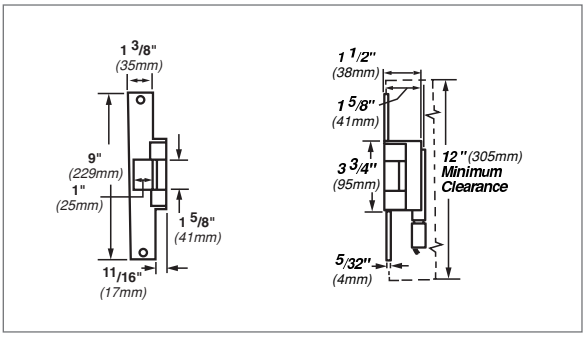
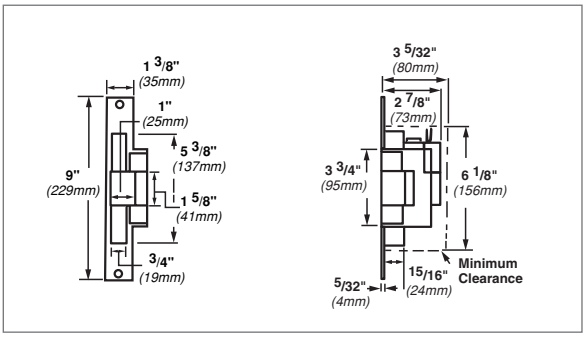



## 6215

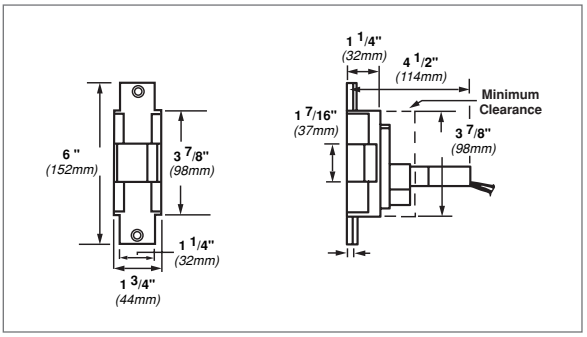



## 6216

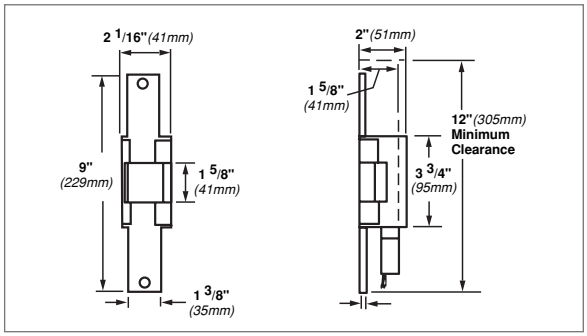


# Dimensions

## 6221




## 6222

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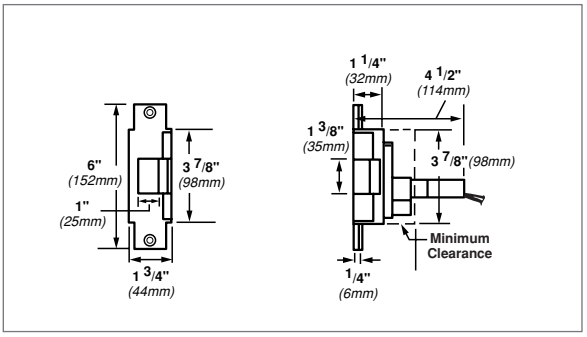
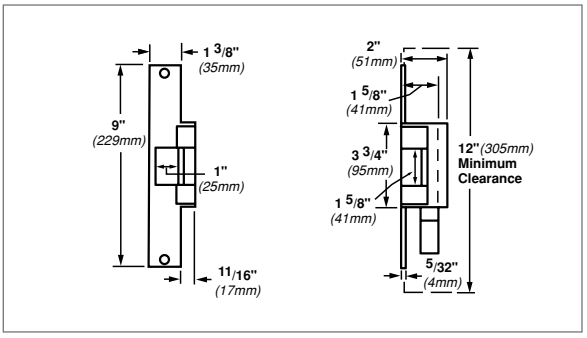
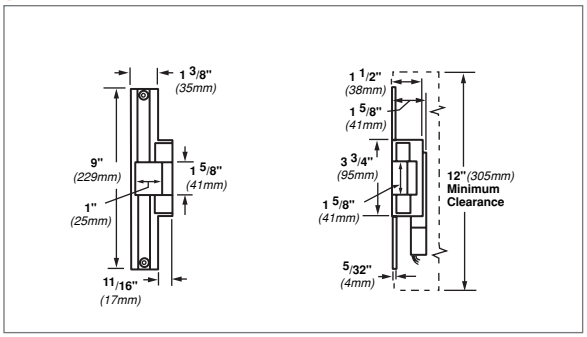


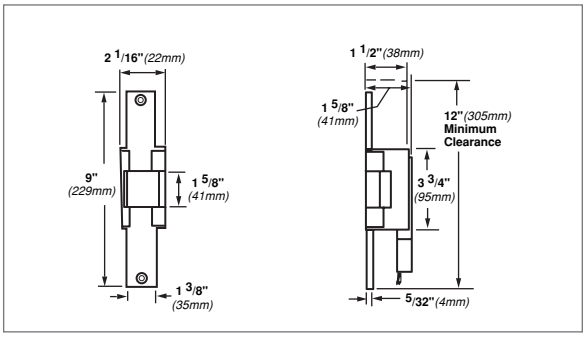

## 6224




## 6224AL




## 6225

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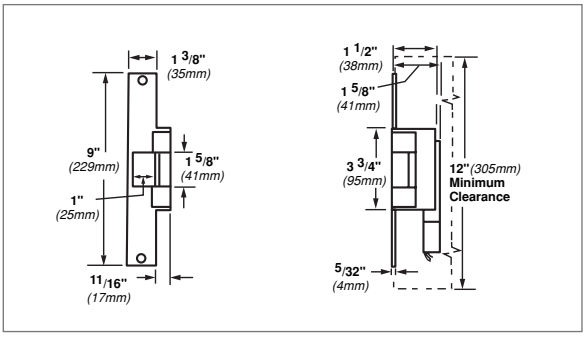

# Ordering information

6210-FSE-DS-24-S024-US3-EB-CON

| Model | Power failure mode | Dual switch* | Voltage | Rectifier kit* | Finish | Buzzer* | Allegion Connect* |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

* Optional

**Selections correspond with the numbers above**

| 1 | Model |
|---|---|
| Reference specification chart to make the proper model selection | |

| 2 | Power failure mode |
|---|---|
| FSE | Fail-secure. Requires power to be applied to unlock the strike lip. On loss of power, the strike lip is locked. **Fire-rated.** |
| FS | Fail-safe. Requires power to be applied to lock the strike lip. On loss of power, the strike lip is unlocked. **Non-fire-rated.** |

| 3 | Dual switch (optional) |
|---|---|
| DS | Monitors latch bolt and lock status. DS switches rated for 24 VDC at .050 - 2.0 amps. |
| DS-LC | Low current option for computer monitoring. Monitors latch bolt & lock status. DS-LS switches rated for 24 VDC at .050 amp or less. |

| 4 | Voltage (VDC) |
|---|---|
| 24 | Low voltage DC power (standard) |
| 12 | Low voltage DC power |
| 16 | Low voltage DC power (solenoid sold separately) |
| 28 | Low voltage DC power (solenoid sold separately) |

If AC power is required, specify rectifier kit.

| 5 | Rectifier kit (optional) |
|---|---|
| S012 | Converts 12 VAC voltage to 12 VDC to operate the solenoid |
| S024 | Converts 24 VAC voltage to 24 VDC to operate the solenoid |

| 6 | Finish |
|---|---|
| US3/BHMA 605 | Plated polished brass on stainless steel |
| US4/BHMA 606 | Plated dull brass on stainless steel |
| US10/BHMA 612 | Plated dull bronze on stainless steel |
| US10B/BHMA 613 | Plated dark bronze, oil rubbed on stainless steel |
| US32/BHMA 629 | Stainless steel, polished |
| US32D/BHMA 630 | Stainless steel, satin |

| 7 | Buzzer (optional) |
|---|---|
| EB | Entry Buzzer |

Only available if Fail-Secure (FSE) is specified.

| 8 | Allegion Connect |
|---|---|
| CON | Allegion Connect Connector |

6 in. wire extension harness available

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VON DUPRIN

# 6300 Series

## Surface mounted strike for rim exit devices

## Overview

Von Duprin electric strikes are known for their reliability, durability and security. The 6300 Series strike is designed to withstand abuse with its heavy-duty stainless steel certification construction is fully UL 1034 and UL 10C listed.

The 6300 Series strike is designed for use with a variety of rim exit devices. As an electrified strike, it allows remote release of a locked door by activating a movable lip (keeper) using an entry/exit button or credential reader and can be a cost effective means for managing access. It is ideal for aftermarket applications and designed to install without modifying or altering the door frame.

Designed for fail-secure (FSE) only mode, the 6300 Series strike achieves compliance with UL10C for 3-hour fire-rated openings. It also enables field-selectable 12 or 24 VDC with AC conversion optional.

To assure the proper selection of an electric strike on new applications, lockset compatibility charts are shown on the next page. When using a lockset not listed or when retrofitting a strike to an existing application, please contact Von Duprin Technical Support for application assistance.

## Features and benefits

- Designed for use with rim exit devices
- Heavy-duty stainless steel construction in BHMA 630 satin finish
- Surface mounted - requires no alteration or cutting to existing frame
- Field selectable voltage 12VDC or 24VDC
- Plug-in voltage connectors included for ease of installation and removal during strike servicing
- Non-handed design provides greater flexibility
- Suitable for interior and exterior doors
- UL 10C 3-hour fire-rated (fail secure only)
- UL 1034 listed for burglary-resistant electric door strikes
- UL 294 listed for access control system
- CSFM California State Fire Marshal listed
- Dynamic strength 70 ft-lbs
- Endurance 2,000,000 cycles

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## 6300 Series power requirements

| Model | Voltage | Current | Duty | Amps | Ohms |
|---|---|---|---|---|---|
| 6300 | 12V | DC | Continuous | 0.50 | 22 |
| 6300 | 24V | DC | Continuous | 0.24 | 89 |

Continuous duty = Energized 1 minute or more

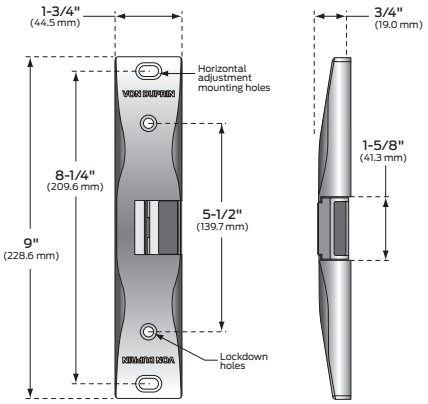
## Rim exit device compatibility 6300 strikes

| Manufacturer | Model Number |
|---|---|
| Von Duprin | VD 22/22-F Rim |
| Von Duprin | VD 33A/35A Rim* |
| Von Duprin | VD 55 Rim |
| Von Duprin | VD 88 Rim |
| Von Duprin | VD 98/99 and 98/99-F Rim |
| Falcon | Falcon 24/24-F Rim* |
| Falcon | Falcon 25/25-F Rim |
| Falcon | Falcon 19/19-F Rim |
| Falcon Doromatic | Falcon Doromatic 1590* |
| Falcon Doromatic | Falcon Doromatic 1790* |
| Falcon Doromatic | Falcon Doromatic 2090* |

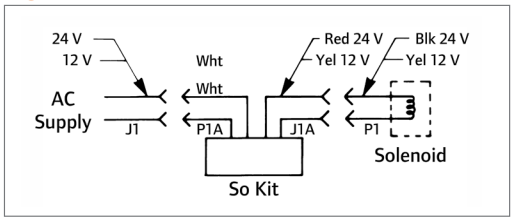
*Stile and frame condition may affect compatibility.

## Model specifications

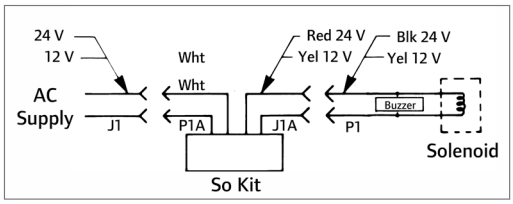
| | |
|---|---|
| Model number | 6300 |
| Retrofits model | N/A |
| Latchbolt throw | 3/4" |
| Face plate length | 9" |
| Projection | 3/4" |
| Lockset | Rim exit device |
| Number of doors | Single or pair with mullion |
| Door/frame type | Hollow metal, aluminum and wood |
| EB (entry buzzer) | Optional |
| Certifications/ listings | UL 1034, UL 10C, UL 294, CSFM |
| Application notes | Surface mounted electric strike ideal for aftermarket applications. Strike designed for use with Von Duprin 98/99, however it can be used with most rim exit devices. |



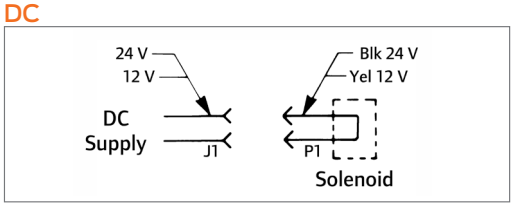

### AC



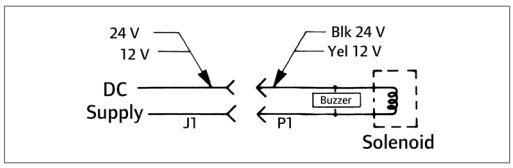

### AC with buzzer




### DC




### DC with Buzzer




# Ordering information

6300-S024-EB

| Model | Rectifier kit* | Buzzer* |
|---|---|---|
| 1 | 2 | 3 |

* Optional

**Selections correspond with the numbers above**

| 1 | Model |
|---|---|
| 6300 | Surface mounted strike for rim exit devices |
| **2** | **Rectifier kits (optional)** |
| S012 | Converts 12 VAC voltage to 12 VDC to operate the solenoid |
| S024 | Converts 24 VAC voltage to 24 VDC to operate the solenoid |
| **3** | **Buzzer (optional)** |
| EB | Entry Buzzer |

## Standard features

- Power failure mode: Fail-secure only (FSE)
- Voltage: field selectable 24 VDC or 12 VDC
- Finish: stainless steel, satin (BHMA 630/US32D)

## About Allegion

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VON DUPRIN®

# 6400 Series

## Modular strike for mortise and cylindrical locksets

## Overview

The 6400 electric door strike from Von Duprin is designed to be modular and highly configurable to fit nearly any mortise or cylindrical lock. This versatile strike allows the installer to insert and lock-in the deadbolt keeper or plug and deadlatch ramp anywhere within its 3 1/8" vertical opening to fit the latch position and functional needs. This, combined with a 1/8" horizontal adjustment, makes this easy-to-install design a good fit for installations where misalignment or a tight fit may be a problem.

As a 3-hour UL 10C listed strike, the 6400 Series is intended as a fail-secure only solution for fire-rated openings. Its durability and quality are shown by its grade 1 certification as a heavy-duty stainless steel strike with over 2,000,000 endurance cycles.

Use it as a time-saving, "go to" strike. The 6400 comes ready for use with prewired plug-in connectors for 12 or 24 VDC voltage that can be changed over to 12 or 24 VAC without a converter kit, two faceplates – one each for offset and centerline locks as well as a trim filler plate, mounting tabs and shims and a self-adhesive template for frame cuts. An optional "plug in" latchbolt monitor is also available and can be added in the field at any time after installation.

## Features and benefits

- Modular design fits cylindrical and nearly any mortise lock
- Heavy-duty stainless steel construction in BHMA 630 satin finish
- Vertical adjustments allow for alignment with a wide variety of mortise locks with offset latches
- Horizontal adjustment of up to 1/8" improves fit on tight door preps
- Can accommodate up to 1" deadbolt (for night latch only)
- Field selectable voltage 12 or 24VDC and 12 to 24VAC
- Plug-in voltage connectors are included for ease of installation and removal during strike servicing
- Optional plug-in latchbolt monitor can be added in the field
- Non-handed, unique internal solenoid design prevents keeper from heating up
- Low current draw (0.19 amps @ 24 VDC)
- Suitable for interior and exterior doors
- 3-hour fire-rated to UL 10C (fail secure only)
- UL 1034 listed for burglary-resistant electric door strikes
- UL 294 listed for access control system
- CSFM California State Fire Marshal listed
- ANSI/BHMA A156.31, Grade 1 certified
- Static strength: 1500 lbs
- Dynamic strength 70 ft-lbs
- Endurance 2,000,000 cycles

# Lockset compatibility

Vertical adjustment of the deadbolt keeper or deadlatch ramp allows for alignment with a wide variety of mortise locks with offset latches. Accommodates up to 1" deadbolt* Up to 1/8" horizontal adjustment for misaligned frames.

* Night-latch function only, bolt will not release

## 6400 Series power requirements

| Model | Mode | Voltage | Duty | Sound | Amps[1] | Ohms[2] |
|---|---|---|---|---|---|---|
| 6400 | Fail-locked | 12 VDC | Continuous | Silent | .375 | 37 |
| 6400 | Fail-locked | 24 VDC | Continuous | Silent | .190 | 148 |
| 6400 | Fail-locked | 12-24 VAC | Intermittent | Buzz | .280 - .565 | 37 |

Intermittent duty = Energized less than 1 min. with duty ratio 1:5; Continuous duty = Energized 1 min. or more.

[1] Ratings are based on maximum current draw at +10ºC and include initial power-up current draw.

[2] Nominal resistance at +25ºC +/- 7% tolerance.

# Wiring Instructions

Use the appropriate wire harness supplied.

- 12V for 12VDC & 12-24VAC
- 24 for 24VDC only

Attach the red wire to (+) positive of the power supply. Attach the black wire to the (-) negative of the power supply. If using AC power, polarity is not observed.

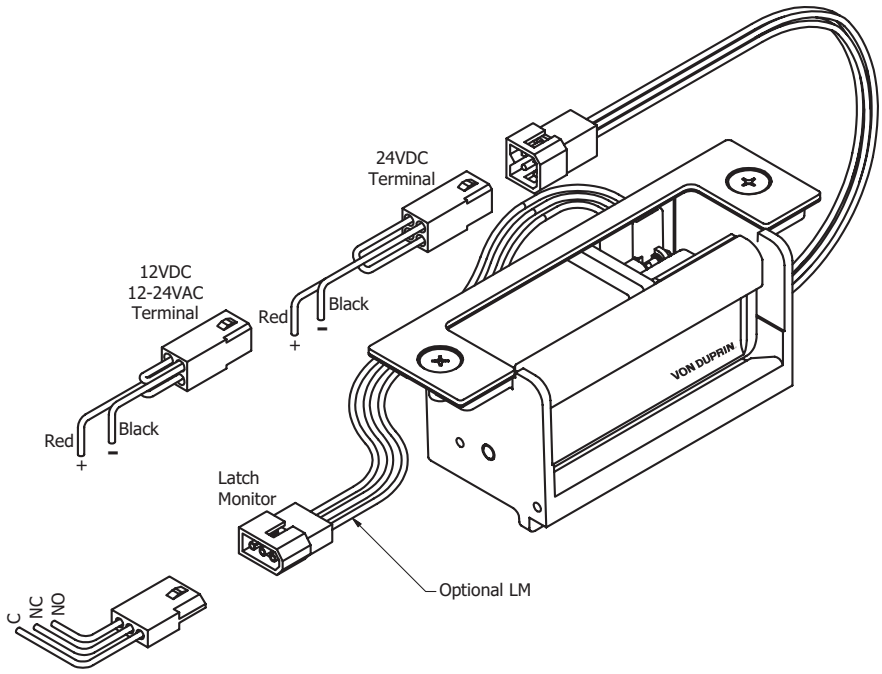
Note: If a suppression diode is required for access control, observe proper polarity.

### Latch monitor wires

Black = Common (C)

Blue = Normal Close (NC)

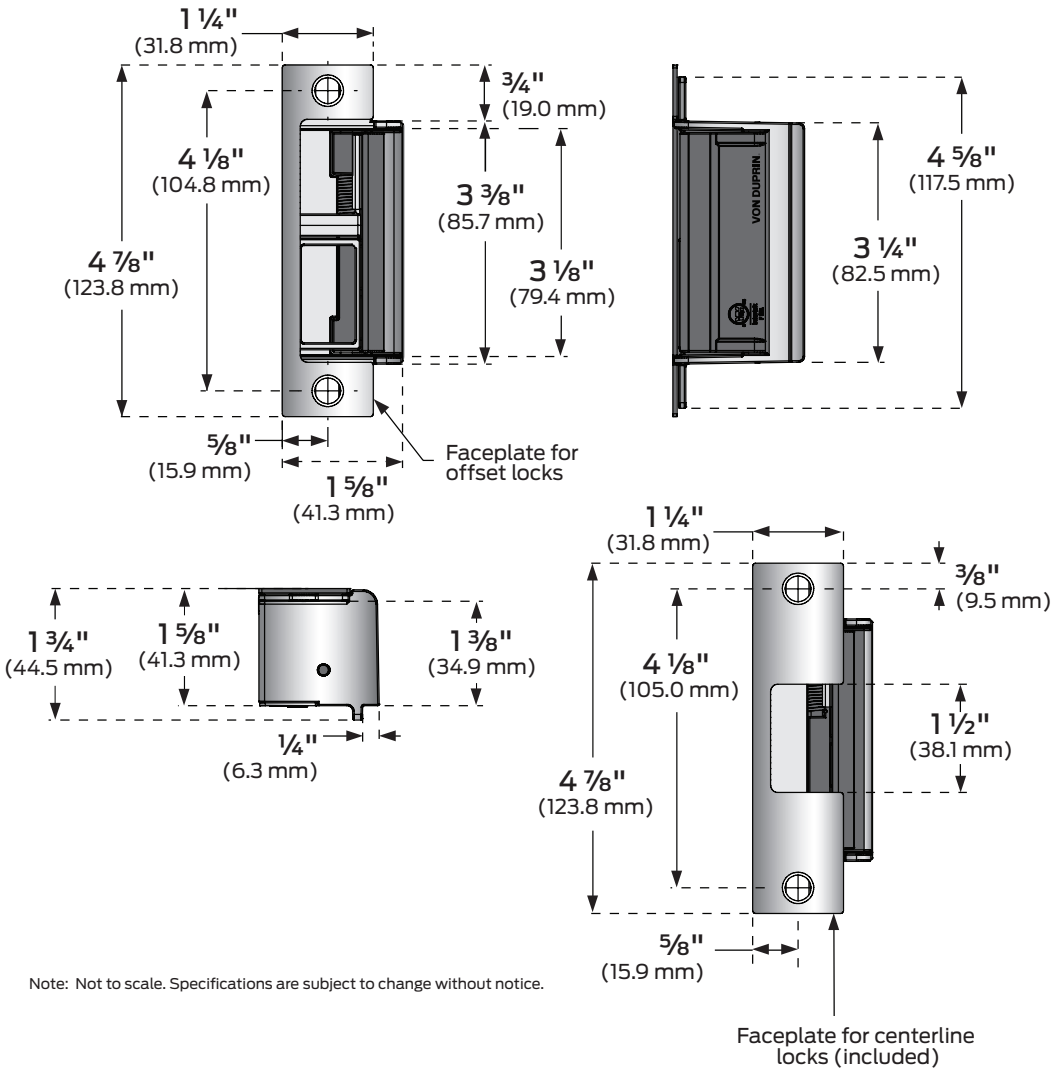
Orange = Normal Open (NO)




## Model specifications

| | |
|---|---|
| Model number | 6400 |
| Latchbolt throw | 3/4" (Also accomodates 1" deadbolt as a nightlatch only - no release) |
| Face plate length | 4 7/8" (Includes two face plates: Centerline and Off-set latch entries) |
| Backbox depth | 1 3/4" |
| Finish | US 32D/BHMA 630 |
| Lockset | Cylindrical, mortise, mortise exit |
| Number of doors | Single |
| Door/frame type | Hollow metal, aluminum & wood |
| Options | 2 Rectifier kits:<br>▪ S012 Converts 12 VAC voltage to 12 VDC to operate the solenoid<br>▪ S024 Converts 24 VAC voltage to 24 VDC to operate the solenoid<br>EB (Entry Buzzer) |
| Certifications/ Listings | ANSI/BHMA A156.31 Grade 1, 3-hour fire rated to UL 10C (FSE only), UL 1034, UL 294, CSFM |
| Application notes | Modular electric strike ideal for aftermarket applications.<br>Fail-secure only for fire-rated openings. |

# Dimensions




Note: Not to scale. Specifications are subject to change without notice.

# Ordering information

## 6400-S024-EB

| Model | Rectifier kit* | Buzzer* |
|---|---|---|
| 1 | 2 | 3 |

* Optional

**Selections correspond with the numbers above**

| | |
|---|---|
| **1** | **Model** |
| 6400 | Modular Strike |
| **2** | **Rectifier kit (optional)** |
| | S012 Converts 12 VAC voltage to 12 VDC to operate the solenoid |
| | S024 Converts 24 VAC voltage to 24 VDC to operate the solenoid |
| **3** | **Buzzer (optional)** |
| EB | Entry buzzer |

## Accessories

- LM6400 Latchbolt monitor - indicates when door is latched (ships separately)

## Standard features

- Power failure mode: Fail-secure only (FSE)
- Voltage: Field selectable 12 or 24 VDC and 12 or 24 VAC voltage
- Finish: Stainless steel, satin (BHMA 630/US 32D)
- Centerline and offset face plates included
- Also includes: two plug-in voltage connectors, self-adhesive template for frame cuts, trim filler plate, mounting tabs and shims, as well as tamper-resistant screws with a security driver bit

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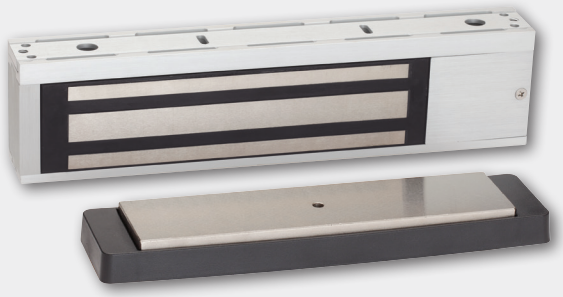
SCHLAGE

# M490/492

## Electromagnetic locks



## Overview

M400 Series electromagnetic locks from Schlage are designed with the customer in mind to be robust, easy-to-install, and secure. The unique bayonet mounting feature makes installation easier, allowing the installer to have their hands free during the mounting process.

All M400 Series electromagnetic locks are symmetrical with field-selectable handing, allowing optimum placement of the magnet no matter the application. They are designed to provide automatic voltage sensing for 12 and 24 volts along with polarity protection to make wiring less complex. M490 models are tested and certified to meet or exceed UL 1034 and BHMA 1500 lb hold force requirements.

The M490 electromagnetic locks come in four configurations to meet your specific security needs. Single and double door models are offered in standard configurations. Plus versions of these models with “P” designations add intelligent sensing and reporting features needed to integrate with access control systems along with additional available options. Kits are also available for top jam, double door, and glass door applications.

## Features and benefits

- 1500 lb. hold force rating for maximum security applications
- “Plus” models offer magnetic bond sensor (MBS), adjustable relock time delay (RTD) and door position switch (DPS)
- Automatic voltage selection (AVS)
- Symmetrical design with field-selectable handing for optimum placement
- Bayonet mount simplifies installation by eliminating the need to hold lock overhead while securing
- Armature mount pivot feature compensates for slight opening imperfections
- Optional mounting kits available for top jamb mount, double door and HERCULITE® brand glass doors
- Aluminum housing in 628 satin finish
- ANSI/BHMA 156.23 Grade 1, UL 1034, UL 10C, UL 294, cUL, CFSM certifications
- Limited lifetime warranty on magnetic coil assembly

# Additional features

**All models**

- Automatic Voltage Selection (AVS) senses the voltage applied to the lock and responds accordingly

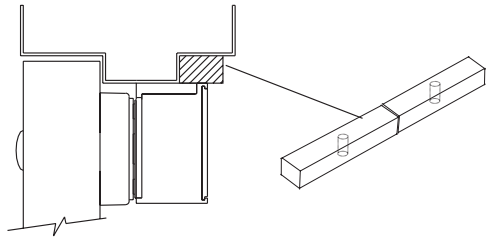
**M490P/M492P**

- Magnetic Bond Sensor (MBS) monitors the strength of the bond between the lock and armature so you know the door is secure
- Door Position Switch (DPS) monitors whether the door is open or closed
- Relock Time Delay (RTD) provides a relock delay that is adjustable from 0.5 to 30 seconds
- Optional accessories (P models only) ATS/LED Combines anti-tamper switch (ATS) with magnetic bond sensor in one kit.
  - ATS provides an indication that the cover of the magnet is securely fastened to the lock and that the on board circuitry is secure
  - Magnetic bond sensor indicator (LED) provides visual indication of magnetic bond at the lock

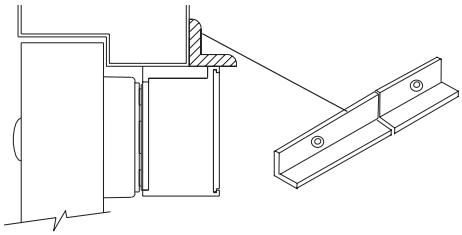
**Optional accessories (for all)**

- Glass door bracket kit designed for use with Herculite® brand glass door.
- Top jamb (inswinging doors) kit
- Double door connector kit (converts two single magnetic locks to a double)

**Filler Plate**



**Angle Bracket**



## M490/M492 electromagnetic lock specifications

| Specification | M490/M490P | M492/M492P |
|---|---|---|
| Holding force | Meets or exceeds BHMA standard of 1500 lbs | Meets or exceeds BHMA standard of 1500 lbs |
| Door type | Single | Double |
| Input voltage (auto selected) | 12/24 VDC | 12/24 VDC |
| Current draw | .65A @ 12 VDC<br>.35A @ 24 VDC | 1.3A @ 12 VDC<br>.7A @ 24 VDC |
| Height | 3" | 3" |
| Length | 12 1/2" | 25 1/16" |
| Depth | 1 3/4" | 1 3/4" |
| Weight (approximate) | 14 lbs | 28 lbs |
| Certifications | UL 10C, UL 1034, UL 294, ANSI/BHMA A156.23, cUL, CSFM | UL 10C, UL 1034, UL 294, ANSI/BHMA A156.23, cUL, CSFM |
| Temperature | 0° to 49°C (32° to 120° F) | 0° to 49°C (32° to 120° F) |
| Wire gauge | 14-22 AWG | 14-22 AWG |

## Filler plates and angle brackets specifications

| | |
|---|---|
| Length | 12 1/2" |

### Filler plates

| Width x Height | Plate no. |
|---|---|
| 1 1/4" x 1/8" | 4901F |
| 1 1/4" x 1/4" | 4902F |
| 1 1/4" x 3/8" | 4903F |
| 1 1/4" x 1/2" | 4904F |
| 1 1/4" x 5/8" | 4905F |
| 3/4" x 1/2" | 4906F |
| 3/4" x 5/8" | 4907F |
| 3/4" x 3/4" | 4908F |

### Angle brackets

| Width x Height | Bracket no. |
|---|---|
| 1" x 1" | 4901A |
| 1 1/2" x 1" | 4902A |
| 1 1/2" x 1 1/2" | 4903A |
| 1 1/2" x 2" | 4904A |
| 1 1/2" x 2 1/2" | 4905A |

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# M450/452

## Electromagnetic locks

## Overview

M400 Series electromagnetic locks from Schlage are designed with the customer in mind to be robust, easy-to-install, and secure. The unique bayonet mounting feature makes installation easier, allowing the installer to have their hands free during the mounting process.

All M400 Series electromagnetic locks are symmetrical with field-selectable handing, allowing optimum placement of the magnet, no matter the application. They are designed to provide automatic voltage sensing for 12 and 24 volts along with polarity protection to make wiring less complex. M450 models are tested and certified to meet or exceed UL 1034 and BHMA 1000 lb hold force requirements.

The M450 electromagnetic locks come in four configurations to meet your specific security needs. Single and double door models are offered in standard configurations. Plus versions of these models with “P” designations add intelligent sensing and reporting features needed to integrate with access control systems along with additional available options. Kits are also available for top jam, double door, and glass door applications.

## Features and benefits

- 1000 lb. hold force rating for high security applications
- “Plus” models offer magnetic bond sensor (MBS), adjustable relock time delay (RTD) and door position switch (DPS)
- Automatic voltage selection (AVS)
- Symmetrical design with field-selectable handing for optimum placement
- Bayonet mount simplifies installation by eliminating the need to hold lock overhead while securing
- Armature mount pivot feature compensates for slight opening imperfections
- Optional mounting kits available for top jamb mount, double door and HERCULITE® brand glass doors
- Aluminum housing in 628 satin finish
- ANSI/BHMA 156.23 Grade 1, UL 1034, UL 10C, UL 294, cUL, CFSM certifications
- Limited lifetime warranty on magnetic coil assembly

# Additional features

**All models**

- **Automatic Voltage Selection (AVS)** senses the voltage applied to the lock and responds accordingly

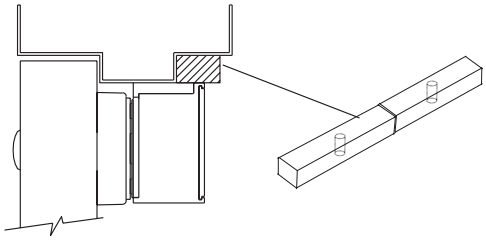
**M450P/M452P**

- **Magnetic Bond Sensor (MBS)** monitors the strength of the bond between the lock and armature so you know the door is secure
- **Door Position Switch (DPS)** monitors whether the door is open or closed
- **Relock Time Delay (RTD)** provides a relock delay that is adjustable from 0.5 to 30 seconds
- Optional accessories (P models only) ATS/LED Combines anti-tamper switch (ATS) with magnetic bond sensor in one kit.
  - ATS provides an indication that the cover of the magnet is securely fastened to the lock and that the on board circuitry is secure
  - Magnetic bond sensor indicator (LED) provides visual indication of magnetic bond at the lock

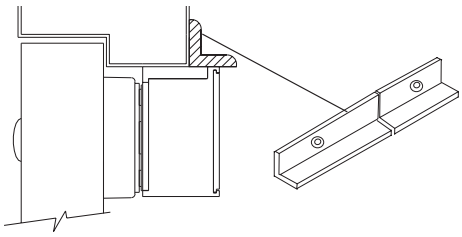
**Optional accessories (for all)**

- Glass door bracket kit designed for use with HERCULITE® brand glass doors
- Top jamb (inswinging doors) kit
- Double door connector kit (converts two single magnetic locks to a double)

**Filler Plate**



**Angle Bracket**



## M450/M452 electromagnetic lock specifications

| Specification | M450/M450P | M452/M452P |
|---|---|---|
| Holding force | meets or exceeds BHMA standard of 1000 lbs | 1000 lbs per door leaf |
| Door type | Single | Double |
| Input voltage (auto selected) | 12/24 VDC | 12/24 VDC |
| Current draw | .75A @ 12 VDC<br>.38A @ 24 VDC | 1.5A @ 12 VDC<br>.75A @ 24 VDC |
| Height | 3" | 3" |
| Length | 10 1/4" | 20 9/16" |
| Depth | 1 3/4" | 1 3/4" |
| Weight (approximate) | 10 lbs | 20 lbs |
| Certifications | UL 1034, UL 10C, UL 294, ANSI/BHMA156.23, cUL, CSFM | UL 1034, UL 10C, UL 294, ANSI/BHMA156.23, cUL, CSFM |
| Temperature | 0° to 49°C (32° to 120° F) | 0° to 49°C (32° to 120° F) |
| Wire gauge | 14-22 AWG | 14-22 AWG |

## Filler plates and angle brackets specifications

| | |
|---|---|
| Length | 10 1/4" |

### Filler plates (order 2 if purchasing a double lock)

| Width x Height | Plate no. |
|---|---|
| 1 1/4" x 1/8" | 4501F |
| 1 1/4" x 1/4" | 4502F |
| 1 1/4" x 3/8" | 4503F |
| 1 1/4" x 1/2" | 4504F |
| 1 1/4" x 5/8" | 4505F |
| 3/4" x 1/2" | 4506F |
| 3/4" x 5/8" | 4507F |
| 3/4" x 3/4" | 4508F |

### Angle brackets (order 2 if purchasing a double lock)

| Width x Height | Bracket no. |
|---|---|
| 1" x 1" | 4501A |
| 1 1/2" x 1" | 4502A |
| 1 1/2" x 1 1/2" | 4503A |
| 1 1/2" x 2" | 4504A |
| 1 1/2" x 2 1/2" | 4505A |

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# M420/422

## Electromagnetic locks

## Overview

M400 Series electromagnetic locks from Schlage are designed with the customer in mind to be robust, easy-to-install, and secure. The unique bayonet mounting feature makes installation easier, allowing the installer to have their hands free during the mounting process.

All M400 Series electromagnetic locks are symmetrical with field-selectable handing, allowing optimum placement of the magnet, no matter the application. They are designed to provide automatic voltage sensing for 12 and 24 volts along with polarity protection to make wiring less complex. M420 models are tested and certified to meet or exceed UL 1034 and BHMA 500 lb hold force requirements.

The M420 electromagnetic locks come in four configurations to meet your specific security needs. Single and double door models are offered in standard configurations. Plus versions of these models with “P” designations add intelligent sensing and reporting features needed to integrate with access control systems along with additional available options. Kits are available for top jam, double door, and glass door applications.

## Features and benefits

- 500 lb. hold force rating for traffic control applications
- “Plus” models offer magnetic bond sensor (MBS), adjustable relock time delay (RTD) and door position switch (DPS)
- Automatic voltage selection (AVS)
- Symmetrical design with field-selectable handing for optimum placement
- Bayonet mount simplifies installation by eliminating the need to hold lock overhead while securing
- Armature mount pivot feature compensates for slight opening imperfections
- Optional mounting kits available for top jamb mount, double door and HERCULITE® brand glass doors
- Aluminum housing in 628 satin finish
- ANSI/BHMA 156.23 Grade 1, UL 1034, UL 10C, UL 294, cUL, CFSM certifications
- Limited lifetime warranty on magnetic coil assembly

# Additional features

**All models**

- **Automatic Voltage Selection (AVS)** senses the voltage applied to the lock and responds accordingly

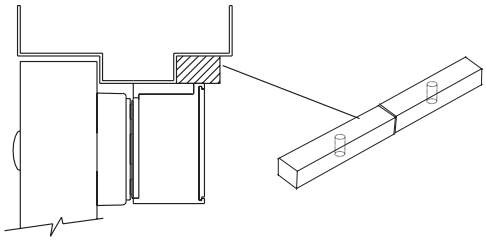
**M420P/M422P**

- **Magnetic Bond Sensor (MBS)** monitors the strength of the bond between the lock and armature so you know the door is secure
- **Door Position Switch (DPS)** monitors whether the door is open or closed
- **Relock Time Delay (RTD)** provides a relock delay that is adjustable from 0.5 to 30 seconds
- Optional accessories (P models only) ATS/LED Combines anti-tamper switch (ATS) with magnetic bond sensor in one kit.
  - ATS provides an indication that the cover of the magnet is securely fastened to the lock and that the on board circuitry is secure
  - Magnetic bond sensor indicator (LED) provides visual indication of magnetic bond at the lock

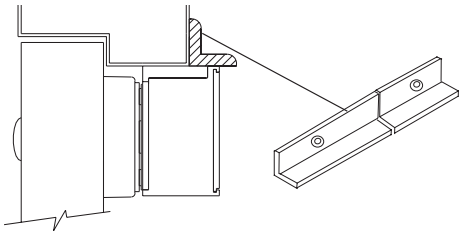
**Optional accessories (for all)**

- Glass door bracket kit designed for use with HERCULITE® brand glass doors
- Top jamb (inswinging doors) kit
- Double door connector kit (converts two single magnetic locks to a double)

**Filler Plate**



**Angle Bracket**



## M420/M422 electromagnetic lock specifications

| Specification | M420/M420P | M422/M422P |
|---|---|---|
| Holding force | meets or exceeds BHMA standard of 500 lbs | meets or exceeds BHMA standard of 500 lbs |
| Input voltage (auto selected) | 12/24 VDC | 12/24 VDC |
| Current draw (amps standard unit) | .75A @ 12 VDC<br>.38A @ 24 VDC | 1.5A @ 12 VDC<br>.76A @ 24 VDC |
| Automatic dual voltage | 12/24 VDC | 12/24 VDC |
| Height | 2 1/2" | 2 1/2" |
| Length | 9" | 18 1/16" |
| Depth | 1 3/8" | 1 3/8" |
| Weight (approximate) | 6 lbs | 12 lbs |
| Certifications | UL 1034, UL 10C, UL 294, ANSI/BHMA156.23, cUL, CSFM | UL 1034, UL 10C, UL 294, ANSI/BHMA156.23, cUL, CSFM |
| Temperature | 0° to 49°C (32° to 120° F) | 0° to 49°C (32° to 120° F) |
| Wire gauge | 14-22 AWG | 14-22 AWG |

## Filler plates and angle brackets specifications

| | |
|---|---|
| Length | 9" |

### Filler plates

| Width x Height | Plate no. |
|---|---|
| 1 1/4" x 1/8" | 4201F |
| 1 1/4" x 1/4" | 4202F |
| 1 1/4" x 3/8" | 4203F |
| 1 1/4" x 1/2" | 4204F |
| 1 1/4" x 5/8" | 4205F |
| 3/4" x 1/2" | 4206F |
| 3/4" x 5/8" | 4207F |
| 3/4" x 3/4" | 4208F |

### Angle brackets

| Width x Height | Bracket no. |
|---|---|
| 1" x 1" | 4201A |
| 1 1/2" x 1" | 4202A |
| 1 1/2" x 1 1/2" | 4203A |
| 1 1/2" x 2" | 4204A |
| 1 1/2" x 2 1/2" | 4205A |

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# M490G

## Electromagnetic gate lock

## Overview

The Schlage M490G is a weather resistant electromagnetic gate lock with 1500 lbs of holding force designed for use on all types of sliding and swinging gates. As a high security magnetic lock, it can accommodate misalignment problems while supplying superior holding force.

A ½" compression connector is provided for installation of ½" EMT conduit, ensuring protection of hook-up wiring from weather and vandalism. Heavy-duty plating resists corrosion of mating surfaces, providing a low maintenance locking device.

A modified top jamb mounting bracket allows a single M490G to be mounted in a variety of positions. The M490G gate lock may be mounted to any gate frame or post. Special brackets may be required to adapt the lock to a particular frame or post. It is important that the lock is mounted so that the armature pulls straight back from the magnet face.

The M490G can be field configured for either 12 or 24 VDC operation. Magnetic Bond Sensor (MBS) and Gate Status Monitor (DPS) are standard.

## Features and benefits

- 1500 lb. hold force rating
- Magnetic bond sensor (MBS) and gate status monitor (DPS)
- Field selectable 12 or 24VDC operation
- Built-in voltage spike suppressor
- Electroless nickel plated finish
- Corrosion and weather resistant for exterior use
- Universal mounting brackets for swinging or sliding gate applications
- ½" EMT compression fitting protects hookup wires from weather and vandalism
- Two foot wire leads
- Accommodates gate misalignment
- No moving parts - low maintenance
- Limited lifetime warranty on magnetic coil assembly
- ANSI/BHMA 156.23 Outdoor rated

# Standard features

M490G

- Magnetic Bond Sensor (MBS) monitors the strength of the bond between the lock and armature so you know the door is secure
- Door Position Switch (DPS) monitors whether the door is open or closed
- Universal Mounting Brackets for swinging or sliding gate applications
- Built-in voltage spike suppression
- ½" EMT compression fitting
- Special corrosion resistant plating

## M490G electromagnetic gate lock specifications

| Specifications | M490G |
|---|---|
| Holding force | Meets or exceeds BHMA standard of 1500 lbs |
| Input voltage (field selectable) | 12/24 VDC |
| Current draw (amps standard unit) | .65A @ 12 VDC<br>.35A @ 24 VDC |
| Height | 3" |
| Length | 11" |
| Depth | 1 ¾" |
| Weight (approximate) | 14 lbs |
| Certifications | ANSI/BHMA 156.23 Outdoor rated |
| Temperature | -31° to 151° F (-35° to 66° C) |
| Wire gauge | 14-22 AWG |

## Filler plates

| Length | 11" |
|---|---|
| Width x Height | Plate no. |
| 1 ¼" x ⅛" | 49G1F |
| 1 ¼" x ¼" | 49G2F |
| 1 ¼" x ⅜" | 49G3F |
| 1 ¼" x ½" | 49G4F |
| 1 ¼" x ⅝" | 49G5F |
| ¾" x ½" | 49G6F |
| ¾" x ⅝" | 49G7F |
| ¾" x ¾" | 49G8F |

## Angle brackets

| Length | 11" |
|---|---|
| Width x Height | Bracket no. |
| 1" x 1" | 49G1A |
| 1 ½" x 1" | 49G2A |
| 1 ½" x 1 ½" | 49G3A |
| 1 ½" x 2" | 49G4A |
| 1 ½" x 2 ½" | 49G5A |

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# M490DE

## Delayed egress electromagnetic lock

## Overview

The Schlage M490DE delayed egress electromagnetic lock is designed to meet NFPA 101 Life Safety Code while providing the same robust, easy-to-install, security of our M400 Series magnetic locks. The M490DE has a 15-second delayed egress timer with audible alarm which can be configured to trigger by an internal “plunger switch,” or by external contacts, such as a request-to-exit push bar.

All M400 Series electromagnetic locks are symmetrical with field-selectable handing, allowing optimum placement of the magnet no matter the application. They are designed to provide automatic voltage sensing for 12 and 24 volts along with polarity protection to make wiring less complex.

M490DE electromagnetic locks come in four configurations to meet your specific security needs. Single and double door models are offered in standard configurations. Plus versions of these models with “P” designations add intelligent sensing and reporting features needed to integrate with access control systems.

This easy-to-install, cost effective solution provides maximum access security and safety.

## Features and benefits

- 1300 lb. hold force rating for maximum security applications
- 15 second delay - activated by internal plunger switch or auxiliary input
- LED Indication with audible alerts
- Release input, reset input, fire alarm input
- Plus models offer magnetic bond sensor (MBS), adjustable relock time delay (RTD) and door position switch (DPS)
- Automatic voltage selection (AVS)
- Bayonet mount simplifies installation by eliminating the need to hold lock overhead while securing
- Armature pivot feature compensates for slight opening imperfections
- Aluminum housing in 628 satin finish
- ANSI/BHMA 156.24, UL special locking arrangements, UL 10C, cUL, CSFM, UL294 certifications
- Meets NFPA 101 life safety code
- BOCA compliant option available
- Limited lifetime warranty on magnetic coil assembly

# Standard features

### ALL MODELS

- **Auto Voltage Selection (AVS)** senses the voltage applied to lock and responds accordingly
- **Internal plunger switch** activates delayed egress timer

**Optional accessories**

- Designed for use with HERCULITE® brand glass doors

### M490DEP/M490DEP-2

- **Magnetic Bond Sensor (MBS)** monitors the strength of the bond between the lock and armature so you know the door is secure
- **Door Position Switch (DPS)** monitors whether the door is open or closed
- **BOCA compliant** (upon request) with options for 15- or 30-second time delay

# Ordering information

### STANDARD MODELS

- **M490DE** - Single lock, 15-second delay
- **M490DE-2** - Double lock, separate housing, 15-second delay

**Optional preset**

- **M490DE-30S** - Single lock, factory set 30-second delay (requires fire marshal letter of approval)

### PLUS MODELS

- **M490DEP** - Single lock, 15-second delay
- **M490DEP-2** - Double lock, 15-second delay
- **M490DEP-BC** - BOCA compliant single lock, factory set 15-second delay with auto re-armed and locked state after door is opened and re-closes
- **M490DEP-BC30S** - BOCA compliant single lock, factory set 30-second delay with auto re-armed and locked state after door is opened and re-closes (requires fire marshal letter of approval)

## M490DE electromagnetic delayed egress lock specifications

| Specification | M490DE/M490DEP | M490DE-2/M490DEP-2 |
|---|---|---|
| Holding force | 1300 lbs | 1300 lbs per door leaf |
| Input voltage (auto selected) | 12/24 VDC | 12/24 VDC |
| Current draw | .75A @ 12 VDC<br>.45A @ 24 VDC | 1.25A @ 12 VDC<br>.76A @ 24 VDC |
| Height | 3" | 3" |
| Length | 12 1/2" | 25 1/16" |
| Depth | 3 1/16" | 3 1/16" |
| Weight (approximate) | 16 lbs | 32 lbs |
| Certifications | ANSI/BHMA 156.24, UL special locking arrangement, UL10C, cUL, CSFM, UL294 | |
| Temperature | 0° to 49°C (32° to 120° F) | 0° to 49°C (32° to 120° F) |
| Wire gauge | 14-22 AWG | 14-22 AWG |

## Filler plates

| Length | 12 1/2" |
|---|---|
| Width x Height | Plate no. |
| 1 1/4" x 1/8" | 4901F |
| 1 1/4" x 1/4" | 4902F |
| 1 1/4" x 3/8" | 4903F |
| 1 1/4" x 1/2" | 4904F |
| 1 1/4" x 5/8" | 4905F |
| 3/4" x 1/2" | 4906F |
| 3/4" x 5/8" | 4907F |
| 3/4" x 3/4" | 4908F |

## Angle brackets

| Length | 12 1/2" |
|---|---|
| Width x Height | Bracket no. |
| 1" x 1" | 4901A |
| 1 1/2" x 1" | 4902A |
| 1 1/2" x 1 1/2" | 4903A |
| 1 1/2" x 2" | 4904A |
| 1 1/2" x 2 1/2" | 4905A |

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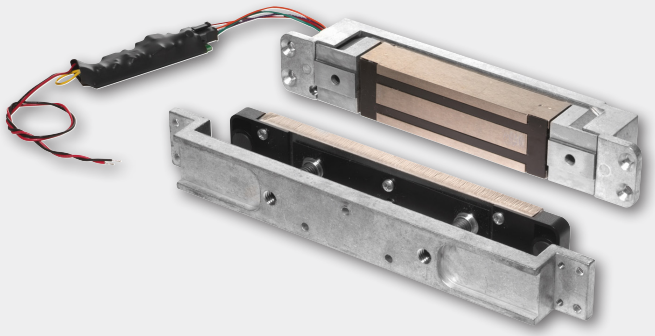
# GF3000

## Mortise mounted shear lock



## Overview

GF3000 Series shear locks feature a patented design, offering advances over any shear lock in the market.

A microprocessor-based control module provides advanced electronic features. This circuitry automatically senses and adjusts input voltage, allowing for operation from 12 to 24 volt DC power sources.

These mortise shear locks offer the advantage of a totally concealed locking mechanism, providing superior security and appearance while allowing for normal door movement. The patented design incorporates locking “tabs” on the magnet assembly with mating grooves in the armature plate.

The GF3000 Series locks are ideally suited for commercial grade quality hollow metal doors and frames, and are designed to be compatible with HERCULITE® brand glass doors with top rail. Advances in design provide low operating temperatures, making these shear lock suitable for use in the growing demand for concealed locks in wood frames.

The GF3000TRD model is available when armature adjustment is required from the edge of the door due to flush ceiling conditions. The GF3000BRD model is available when no top rail mounting is available.

## Features and benefits

- 3000 lb. hold force rating
- Fully concealed shear lock mortise design
- Automatic voltage selection (AVS) 12/24 VDC (filtered)
- Built-in automatic relock switch
- Adjustable time delay on relock, 0-30 seconds
- Low temperature operation
- Microprocessor controlled
- Optional Magnetic Bond Sensor (MBS) to monitor the secure/not secure condition of the lock
- Optional Door Status Monitor (DSM) to sense the open/closed position of the door
- ANSI/BHMA 156.23, UL 10C, cUL, and CSFM certifications
- Limited lifetime warranty on magnetic coil

## Specifications

| | GF3000 | GF3000TRD | GF3000BRD |
|---|---|---|---|
| Holding force | 3000 lbs | 3000 lbs | 3000 lbs |
| Input voltage* | 12/24 VDC | 12/24 VDC | 12/24 VDC |
| Current draw | .90A @ 12VDC<br>.45A @ 24VDC | .90A @ 12VDC<br>.45A @ 24VDC | .90A @ 12VDC<br>.45A @ 24VDC |
| Lock body Dimensions (L x H x D) | 9 1/2" x 1 1/2" x 1 1/2" | 9 1/2" x 1 1/2" x 1 1/2" | N/A |
| Lock body with mounting tabs | 11 9/16" x 1 1/2" x 1 1/2" | 11 9/16" x 1 1/2" x 1 1/2" | 7 1/16" x 1 1/2" x 1 3/16" |
| Threshold box | N/A | N/A | 7 1/2" x 2 1/4" x 1 3/4" |
| Armature | 8 3/8" x 1 3/8" x 1/2" | 8 3/8" x 1 3/8" x 1/2" | 6 1/8" x1 3/8" x 7/16" |
| Armature bracket | 10 5/8" x 1 3/8" x 1" | 6 1/4" x 1 3/8" x 1 1/4" | 6 1/4" x 1 3/8" x 1 1/4" |
| Weight | 7 lbs. | 6 lbs. | 6 lbs. |
| Certifications | UL 10C, cUL, CSFM, ANSI/BHMA 156.23 | UL 10C, cUL, CSFM, ANSI/BHMA 156.23 | UL 10C, cUL, CSFM, ANSI/BHMA 156.23 |

*Requires filtered, regulated power supply.

# Ordering information

- **GF3000** (Standard Model): Fully concealed shear lock. The armature mounts into top of door or top rail and magnet mounts into header or frame. Air gap adjustment is from top edge of door.
- **GF3000TRD** (Top Rail Door): Fully concealed shear lock intended for use when top of door is not accessible for air gap adjustment after door is hung. Armature mounts into top of door or top rail and magnet mounts into header or frame. Air gap adjustment is from latch edge of door.
- **GF3000BRD** (Bottom Rail Door): Fully concealed shear lock intended for use when top of door is not accessible for air gap adjustment after door is hung. Armature mounts into bottom of door or bottom rail and magnet mounts into floor. Air gap adjustment is from edge of armature. Popular application compatible with HERCULITE® brand glass doors.

### Options

- **DSM/MBS** - Door Status Monitor/Magnetic Bond Sensor

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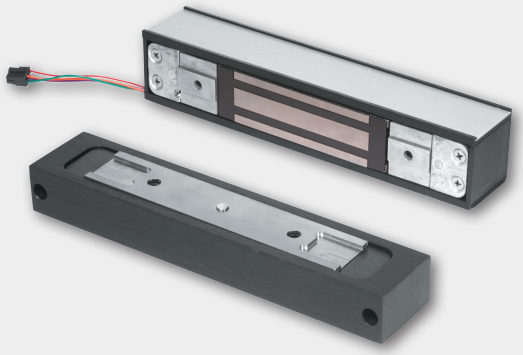
# GF3000

## Surface mounted shear lock



## Overview

GF3000 Series shear locks' patented design provides powerful holding force in low profile models for inswinging and outswinging doors. A microprocessor-based control module provides advanced electronic features. This circuitry automatically senses and adjusts input voltage, allowing for operation from 12 to 24 volt DC power sources.

The lightweight, black anodized housing can be quickly mounted without need of brackets and is finished off with a satin aluminum decorative plate for a clean look.

## Features and benefits

- 3000 lb. hold force rating
- Automatic voltage selection (AVS) 12/24 VDC (filtered)
- Built-in automatic relock switch
- Adjustable time delay on relock, 0-30 seconds
- Low temperature operation
- Microprocessor controlled
- Optional Magnetic Bond Sensor (MBS) to monitor the secure/not secure condition of the lock
- Optional Door Status Monitor (DSM) to sense the open/closed position of the door
- Housing is black anodized with BHMA 628 satin aluminum decorative plate
- ANSI/BHMA 156.23, UL 10C, cUL, and CSFM certifications
- Limited lifetime warranty on magnetic coil assembly

## Specifications

| | GF3000SM | GF3000TJ |
|---|---|---|
| Holding force (lbs.) | 3000 | 3000 |
| Door type | Outswinging | Inswinging |
| Current Draw | .90A @ 12VDC<br>.45A @ 24VDC | .90A @ 12VDC<br>.45A @ 24VDC |
| Lock housing (L x H x D) | 9 13/16" x 1 1/4" x 1 1/2" | 9 13/16" x 1 1/4" x 1 1/2" |
| Armature housing (L x H x D) | 8 3/8" x 1 3/8" x 1/2" | 8 3/8" x 1 3/8" x 1/2" |
| Weight | 9 lbs. | 9 lbs. |
| Certifications | UL10C, cUL, CSFM,<br>ANSI/BHMA 156.23 | UL10C, cUL, CSFM,<br>ANSI/BHMA 156.23 |

# Ordering information

- **GF3000SM (Surface Mounted)**: Surface mounted shear lock intended for use on outswinging doors. Surface mounted magnet mounts under header and surface mounted armature assembly mounts into door just under magnet assembly. Air gap adjustment is from top of door.
- **GF3000TJ (Top Jamb)**: Surface mounted shear lock intended for use on inswinging doors that are flush with frame's inner face. Surface mounted armature assembly mounts onto top of door or top rail and surface mounted magnet mounts onto frame's face. Air gap adjustment is from top of door.

### Options

- **DSM/MBS** - Door Status Monitor/Magnetic Bond Sensor

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# 320M

## Mortise mount sliding door electromagnetic lock

## Overview

Schlage provides the industry's most complete selection of electromagnetic locks. The 320M MiniLine™ is a UL listed, for mortise mounted electromagnetic lock designed for use on sliding doors. It interfaces with electronic access control systems, automatic door operators, and fire or hazard sensing systems to provide egress upon detectable emergency. With a fail-safe design, it offers an excellent solution for both security and life safety requirements when connected to the fire alarm circuit.

The 320M has been installed in thousands of locations worldwide including airports, hospitals, nursing homes, schools, universities, libraries, museums, retail and office buildings, laboratories, and government buildings.

## Features and benefits

- 550 lb. hold force rating with 24 VDC
- Compact, mortise mount design for sliding doors
- Includes mounting tabs and armature mounting block
- Low maintenance - no moving parts
- Meets security and life safety requirements
- Field selectable 12 or 24 VDC operation
- Standard features include adjustable time delay (ATD), door status monitor (DSM), and magnetic bond sensor (MBS)
- cUL and CSFM certified
- UL 10C listed for positive pressure fire tests of door assemblies: 3 hours
- Limited lifetime warranty on magnetic coil assembly

## Specifications

| | |
|---|---|
| Holding force | 400 lbs @ 12 VDC, 550 lbs @ 24 VDC |
| Input voltage | 12/24 VDC |
| Current draw (Dual Voltage Field Selectable) | .23A@ 12 VDC<br>.45A @ 24 VDC |
| Wiring | Wire leads 12" long |
| Lock body (L x H x D) | 7" x 1 3/8" x 1 7/8" |
| Armature (L x H x D) | 4 1/4" x 1 1/2" x 5/8" |
| Weight | 6 lbs |

**Note for wood frames:** Due to higher ambient operating temperatures, it is required that the 12 VDC configuration be used.

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# M390RFK Retrofit

## Electromagnetic lock

## Overview

The M390RFK is designed to retrofit the Locknetics 390+ without any additional prep. This ensures ease of installation for retrofit applications. The M390RFK comes standard with a Door Status Monitor (DSM), Magnetic Bond Sensor (MBS), and Relocking Time Delay (RTD). It's design employs a standardized circuit board with easy-to-install connectors, adjustable mounting brackets and integrated mounting screws. The armature housing was designed to eliminate noise and sagging, increasing the overall reliability of the product. The armature housing also holds magnets for the DSM feature without having to mount an additional plate to the armature, ensuring quicker, more reliable installations.

The M390RFK easily interfaces with most electronic access control systems in the market today, as well as automatic door operators and fire, or other hazard sensing systems for egress and emergency egress.

## Features and benefits

- Direct retrofit for Locknetics 390+ electromagnetic lock for outswinging doors
- Single lock model has 1500 lbs. of holding force for maximum security applications
- Automatic voltage selection (AVS)
- Adjustable mounting brackets
- Standard features include door status monitor (DSM), magnetic bond sensor with LED indicator (MBS) and a relocking time delay (RTD) of 0-110 seconds
- UL 10C listed for positive pressure fire tests of door assemblies: 3 hours
- ANSI/BHMA 156.23 Grade 1, cUL certified
- Limited lifetime warranty on magnetic coil assembly

## M390RFK electromagnetic lock specifications

| | |
|---|---|
| Holding force | 1500 lbs |
| Door type | Single outswinging only |
| Input voltage (standard unit) | 12 or 24 VDC |
| Current draw (amps standard unit) | .65A @ 12 VDC<br>.45A @ 24 VDC |
| Height | 2 7/8" |
| Length | 10 1/2" |
| Depth | 1 5/8" |
| Weight (approximate) | 12.4 lbs |
| Certifications | ANSI/BHMA 156.23, UL 10C, cUL |
| Temperature | 0° to 49° C (32° to 120° F) |

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# PS906

## 6 amp power supply

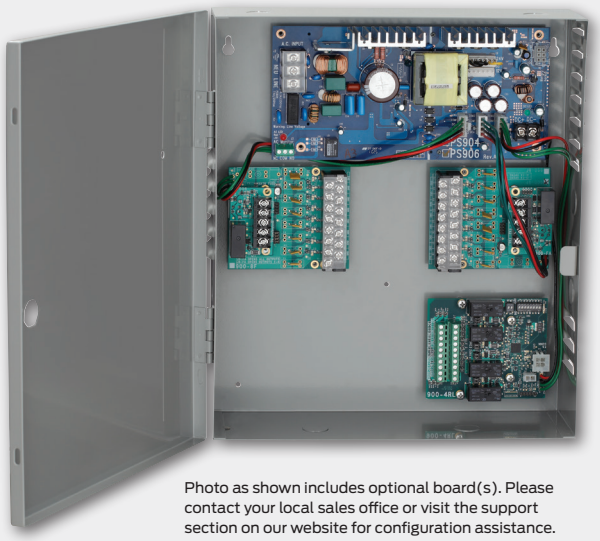


Photo as shown includes optional board(s). Please contact your local sales office or visit the support section on our website for configuration assistance.

## Overview

The Schlage comprehensive line of power supplies and option boards was designed to address the changing needs of the access control market.

Installation is simplified by utilizing a flat mounting design and polarized locking connectors for option boards. This design eliminates the need for racks and side connectors. The flat mounting of the option boards also provides for easier access to the terminal blocks for connection of electrified devices (such as electrified strikes, electromagnetic locks, card readers, etc.).

Common to the line of PS900 Series power supplies is a constant output rating at both 12v and 24v settings, universal 120 VAC to 240 VAC input, and polarized option board connectors. New fire alarm interface board mounting allows outputs to be configured as switched (power cut) or unswitched (power continues) when signal is provided.

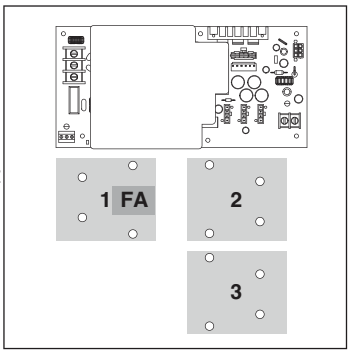
## Features and benefits

- 6A @ 12/24 VDC constant output, field selectable with jumper
- Provides low-voltage, Class 1, filtered and regulated power (Class 2 when used with 900-8P option board)
- Universal 120-240 VAC, fused primary input
- Three polarized option board connectors eliminate need for racks and side connectors
- AC input and DC output monitoring circuit with LED indicators
- Externally visible AC input indicator with isolated SPDT contacts
- High-voltage protective cover for AC circuitry (not shown)
- Battery back-up board auto-selects voltage
- Optional Fire Alarm plug-in board available
- UL 294, ULC-S318, RoHS, and FCC Part 15 certified

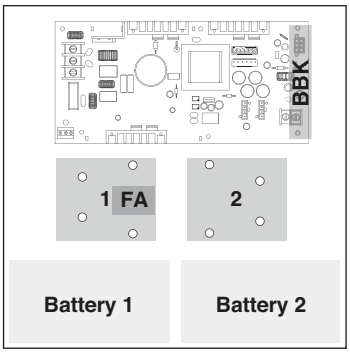
# Configuration options

Available option board, fire alarm and battery backup connection locations:

PS906 without battery backup




PS906 with battery backup




**Exit device support**

| | |
|---|---|
| Von Duprin QEL | Up to 8[1] |
| Von Duprin EL | None |
| Falcon EL | None |

1. Requires the use of two 900-4RL option boards

## PS906 power supply specifications

| Specification | Description |
|---|---|
| Input voltage | 120/240 VAC, 50/60 Hz, universal input |
| Output voltage | 6A @ 12 or 24 VDC<br>Field selectable with jumper<br>Switching supply, 5% regulation, 240mVpp max ripple |
| Enclosure | Grey/baked enamel<br>14"x 12"x 4" (H x W x D)<br>Eight ½" x ¾" knockouts<br>NEMA Grade 1<br>Hinged cover with lock down screws |
| Operating temperature | 32º - 120ºF (0º - 49ºC) |
| Certifications | ANSI/UL 294<br>ULC-S318<br>RoHS<br>FCC Part 15<br>Class 1 (Class 2 when used with 900-8P option board) |
| Battery backup (install on main board) | 900-BB: Battery backup board only<br>900-BBK: Battery backup kit (backup board plus battery pack) |
| Available option boards | 900-FA: Plug-in fire alarm (must be installed on option board)<br>900-2RS*: 2 Relay option board capable of individual or sequential operation for single and pair door applications<br>900-4R*: 4 Relay option board<br>900-4RL*: 4 Relay option board with integrated logic and individual or sequential operation capability for controlling security interlocks, auto operators and time delay function<br>900-8F*: Fused, 8 zone option board<br>900-8P*: PTC, 8 zone option board |
| AC primary fuse size | 6.3A, 250v, 5 x 20 mm |
| Battery fuse size | 7.5A 32v ATO blade style |
| DC output protection | Overload protection - current limited foldback circuit |
| Indicators | LED indicators:<br>- AC input (visible on outside of enclosure)<br>- DC output<br>Isolated SPDT contacts to monitor AC power status |
| Weight (power supply) | Approx. 9.0 lbs |
| Weight (each battery) | 4.0 lbs |
| AC input termination | 3 position terminal block with protective cover<br>Wire capacity: 10 AWG max. |
| DC output termination | 2 position terminal block<br>Wire capacity: 12 AWG max. |
| Option board connectors | 3 |
| Fire alarm board connector | Yes (requires connection on option board) |
| Keylock | Optional |
| Accessories | 900-BAT: Backup battery pack |

* Compatible with plug-in fire alarm board (900-FA)

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# PS904

## 4 amp power supply

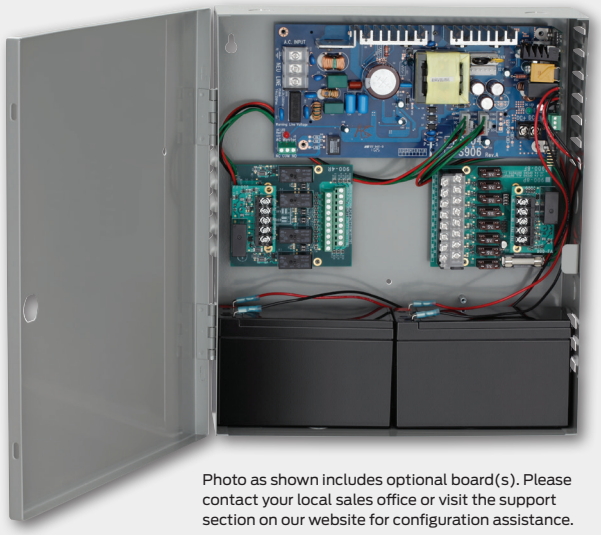


Photo as shown includes optional board(s). Please contact your local sales office or visit the support section on our website for configuration assistance.

## Overview

The Schlage comprehensive line of power supplies and option boards was designed to address the changing needs of the access control market.

Installation is simplified by utilizing a flat mounting design and polarized locking connectors for option boards. This design eliminates the need for racks and side connectors. The flat mounting of the option boards also provides for easier access to the terminal blocks for connection of electrified devices (such as electrified strikes, electromagnetic locks, card readers, etc.).

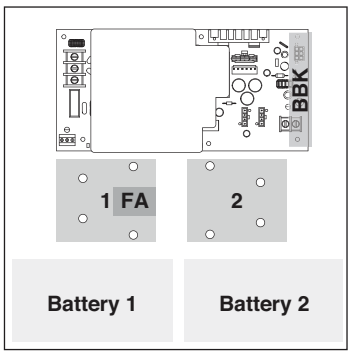
Common to the line of PS900 Series power supplies is a constant output rating at both 12v and 24v settings, universal 120 VAC to 240 VAC input, and polarized option board connectors. New fire alarm interface board mounting allows outputs to be configured as switched (power cut) or unswitched (power continues) when signal is provided.

## Features and benefits

- 4A @ 12/24 VDC constant output, field selectable with jumper
- Provides low-voltage, Class 2, filtered and regulated power
- Universal 120-240 VAC, fused primary input
- Two polarized option board connectors eliminate need for racks and side connectors
- AC input and DC output monitoring circuit with LED indicators
- Externally visible AC input indicator with isolated SPDT contacts
- High-voltage protective cover for AC circuitry (not shown)
- Battery back-up board auto-selects voltage
- Optional Fire Alarm plug-in board available
- UL 294, ULC-S318, RoHS, and FCC Part 15 certified

# Configuration options

Available option board, fire alarm and battery backup connection locations:




### Exit device support

| | |
|---|---|
| Von Duprin QEL | Up to 4[1] |
| Von Duprin EL | None |
| Falcon EL | None |

1. Requires the use of one 900-4RL option board

## PS904 power supply specifications

| Specification | Description |
|---|---|
| Input voltage | 120/240 VAC, 50/60 Hz, universal input |
| Output voltage | 4A @ 12 or 24 VDC<br>Field selectable with jumper<br>Switching supply, 5% regulation, 240mVpp max ripple |
| Enclosure | Grey/baked enamel<br>14" x 12" x 4" (H x W x D)<br>Eight ½" x ¾" knockouts<br>NEMA Grade 1<br>Hinged cover with lock down screws |
| Operating temperature | 32º - 120ºF (0º - 49ºC) |
| Certifications | ANSI/UL 294<br>ULC-S318<br>RoHS<br>FCC Part 15<br>Class 2 |
| Battery backup (install on main board) | 900-BB: Battery backup board only<br>900-BBK: Battery backup kit (backup board plus battery pack) |
| Available option boards | 900-FA: Plug-in fire alarm (must be installed on option boards)<br>900-2RS*: 2 Relay option board capable of individual or sequential operation for single and pair door applications<br>900-4R*: 4 Relay option board<br>900-4RL*: 4 Relay option board with integrated logic and individual or sequential operation capability for controlling security interlocks, auto operators and time delay function<br>900-8F*: Fused, 8 zone option board<br>900-8P*: PTC, 8 zone option board |
| AC primary fuse size | 4A, 250v, 5 x 20mm |
| Battery fuse size | 7.5A 32v ATO blade style |
| DC output protection | Overload protection - current limited foldback circuit |
| Indicators | LED indicators:<br>- AC input (visible on outside of enclosure)<br>- DC output<br>Isolated SPDT contacts to monitor AC power status |
| Weight (power supply) | Approx. 9.0 lbs |
| Weight (each battery) | 4.0 lbs |
| AC input termination | 3 position terminal block with protective cover<br>Wire capacity: 10 AWG max. |
| DC output termination | 2 position terminal block<br>Wire capacity: 12 AWG max. |
| Option board connectors | 2 |
| Fire alarm board connector | Yes (requires connection on option board) |
| Keylock | Optional |
| Accessories | 900-BAT: Backup battery pack |

* Compatible with plug-in fire alarm board (900-FA)

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# PS902

## 2 amp power supply

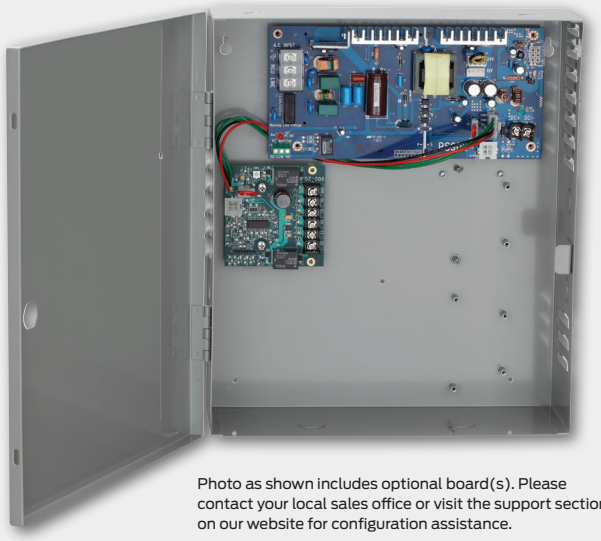


Photo as shown includes optional board(s). Please contact your local sales office or visit the support section on our website for configuration assistance.

## Overview

The Schlage comprehensive line of power supplies and option boards was designed to address the changing needs of the access control market.

Installation is simplified by utilizing a flat mounting design and polarized locking connectors for option boards. This design eliminates the need for racks and side connectors. The flat mounting of the option boards also provides for easier access to the terminal blocks for connection of electrified devices (such as electrified strikes, electromagnetic locks, card readers, etc.).

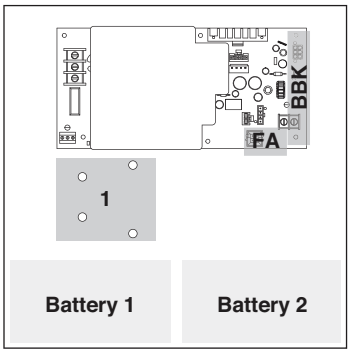
Common to the line of PS900 Series power supplies is a constant output rating at both 12v and 24v settings, universal 120 VAC to 240 VAC input, and polarized option board connectors. New fire alarm interface board mounting allows outputs to be configured as switched (power cut) or unswitched (power continues) when signal is provided.

## Features and benefits

- 2A @ 12/24 VDC constant output, field selectable with jumper
- Provides low-voltage, Class 2, filtered and regulated power
- Universal 120-240 VAC, fused primary input
- Single polarized option board connector
- AC input and DC output monitoring circuit with LED indicators
- Externally visible AC input indicator with isolated SPDT contacts
- High-voltage protective cover for AC circuitry (not shown)
- Battery back-up board auto-selects voltage
- Optional Fire Alarm plug-in board available
- UL 294, ULC-S318, RoHS, and FCC Part 15 certified

# Configuration options

Available option board, fire alarm and battery backup connection locations:




## Exit device support

| | |
|---|---|
| Von Duprin QEL | Up to 2[1] |
| Von Duprin EL | None |
| Falcon EL | None |

1. Requires the use of one 900-2RS option board

## PS902 power supply specifications

| Specification | Description |
|---|---|
| Input voltage | 120/240 VAC, 50/60 Hz, universal input |
| Output voltage | 2A @ 12 or 24 VDC<br>Field selectable with jumper<br>Switching supply, 5% regulation, 240mVpp max ripple |
| Enclosure | Grey/baked enamel<br>14" x 12" x 4" (H x W x D)<br>Eight ½" x ¾" knockouts<br>NEMA Grade 1<br>Hinged cover with lock down screws |
| Operating temperature | 32º - 120ºF (0º - 49ºC) |
| Certifications | ANSI/UL 294<br>ULC-S318<br>RoHS<br>FCC Part 15<br>Class 2 |
| Battery backup (install on main board) | 900-BB: Battery backup board only<br>900-BBK: Battery backup kit (backup board plus battery pack) |
| Available option boards | 900-FA: Plug-in fire alarm (install on main or option board)<br>900-2RS: 2 Relay option board capable of individual or sequential operation for single and pair door applications<br>900-4R: 4 Relay option board<br>900-4RL: 4 Relay option board with integrated logic and individual or sequential operation capability for controlling security interlocks, auto operators, and time delay function<br>900-8F: Fused, 8 zone option board<br>900-8P: PTC, 8 zone option board |
| AC primary fuse size | 3.15A, 250v, 5 x 20mm |
| Battery fuse size | 7.5A 32v ATO blade style |
| DC output protection | Overload protection - current limited foldback circuit |
| Indicators | LED indicators:<br>- AC input (visible on outside of enclosure)<br>- DC output<br>Isolated SPDT contacts to monitor AC power status |
| Weight (power supply) | Approx. 9.0 lbs |
| Weight (each battery) | 4.0 lbs |
| AC input termination | 3 position terminal block with protective cover<br>Wire capacity: 10 AWG max. |
| DC output termination | 2 position terminal block<br>Wire capacity: 12 AWG max. |
| Option board connectors | 1 |
| Fire alarm board connector | Yes |
| Keylock | Optional |
| Accessories | 900-BAT: Backup battery pack |

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# PS914

## 4 amp high in rush power supply

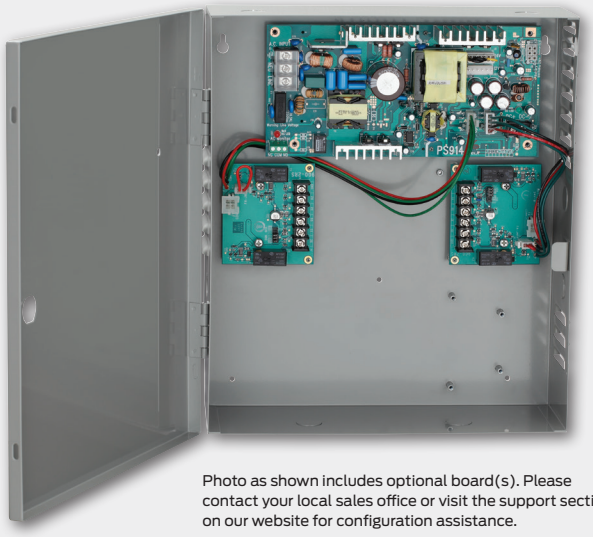


Photo as shown includes optional board(s). Please contact your local sales office or visit the support section on our website for configuration assistance.

## Overview

Von Duprin power supply and option board products were designed to meet the specific requirements of electrified fire exit devices.

Installation is simplified by utilizing a flat mounting design and polarized locking connectors for option boards. This design eliminates the need for racks and side connectors. The flat mounting of the option boards also provides for easier access to the terminal blocks for connection of electrified devices (such as electrified panic devices, strikes, card readers, etc.).

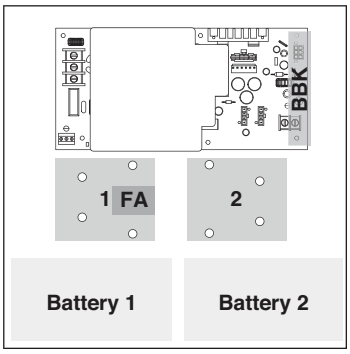
Common to the line of PS900 Series power supplies is a constant output rating at both 12v and 24v settings, universal 120 VAC to 240 VAC input, and polarized option board connectors. New fire alarm interface board mounting allows outputs to be configured as switched (power cut) or unswitched (power continues) when signal is provided.

## Features and benefits

- 4A @ 12/24 VDC constant output, field selectable with jumper
- Designed for use with electrified panic devices requiring high in rush current
- Provides low-voltage, Class 2, filtered and regulated power
- Universal 120-240 VAC, fused primary input
- Two polarized option board connectors
- AC input and DC output monitoring circuit with LED indicators
- Externally visible AC input indicator with isolated SPDT contacts
- High-voltage protective cover for AC circuitry (not shown)
- Battery back-up board auto-selects voltage
- Optional Fire Alarm plug-in board available
- UL 294, ULC-S318, RoHS, and FCC Part 15 certified

# Configuration options

Available option board, fire alarm and battery backup connection locations:




### Exit device support

| | |
|---|---|
| Von Duprin QEL | Up to 8[1] |
| Von Duprin EL | Up to 8[1,2] |
| Falcon EL | Up to 8[1,2] |

1. Requires the use of two 900-4RL option boards

2. Distance from power supply may be limited with multiple EL applications - consult technical support for wire run lengths

## PS914 power supply specifications

| Specification | Description |
|---|---|
| Input voltage | 120/240 VAC, 50/60 Hz, universal input |
| Output voltage | 4A @ 12 or 24 VDC<br>Field selectable with jumper<br>Switching supply, 5% regulation, 360mVpp max ripple |
| Enclosure | Grey/baked enamel<br>14" x 12" x 4" (H x W x D)<br>Eight ½" x ¾" knockouts<br>Hinged cover with lock down screws |
| Operating temperature | 32º - 120ºF (0º - 49ºC) |
| Certifications | ANSI/UL 294<br>ULC-S318<br>RoHS<br>FCC Part 15<br>Class 2 |
| Battery backup (install on main board) | 900-BB: Battery backup board only<br>900-BBK: Battery backup kit (backup board plus battery pack) |
| Available option boards | 900-FA: Plug-in fire alarm (must be installed on option board)<br>900-2RS*: 2 Relay option board capable of individual or sequential operation for single and pair door applications<br>900-4R*: 4 Relay option board<br>900-4RL*: 4 Relay option board with integrated logic and individual or sequential operation capability for controlling security interlocks, auto operators and time delay function<br>900-8F*: Fused, 8 zone option board<br>900-8P*: PTC, 8 zone option board |
| AC primary fuse size | 6.3A, 250v, 5 x 20mm |
| Battery fuse size | 7.5A 32v ATO blade style |
| DC output protection | Overload protection - current limited foldback circuit |
| Indicators | LED indicators:<br>- AC input (visible on outside of enclosure)<br>- DC output<br>Isolated SPDT contacts to monitor AC power status |
| Weight (power supply) | Approx. 9.0 lbs |
| Weight (each battery) | 4.0 lbs |
| AC input termination | 3 position terminal block with protective cover<br>Wire capacity: 10 AWG max. |
| DC output termination | 2 position terminal block<br>Wire capacity: 12 AWG max. |
| Option board connectors | 2 |
| Fire alarm board connector | Yes (requires connection on option board) |
| Keylock | Optional |
| Accessories | 900-BAT: Backup battery pack |

* Compatible with plug-in fire alarm board (900-FA)

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SCHLAGE

# 620/631 Series

## Heavy-duty pushbuttons

## Overview

Schlage pushbuttons are used to control the ingress and/or egress of a door. The 620 and 631 Series pushbuttons are easy to install and operate. Their standard and narrow stile plates offer ultimate flexibility. The 620 to 631 Series have multiple button configuration and finish options provide enhanced architectural appeal.

Schlage 620 and 631 Series pushbuttons also offer significant installer-friendly innovations such as screw terminal connections for the momentary action models and easy-to-install L2/ILL optional PC board, offering backlit illumination for the cone with green, yellow and red LEDs. Additional options include maintained or delayed action, double pole double throw switches, narrow stile faceplates and heavy-duty faceplates with several architectural finishes.

## Features and benefits

- 620 Series offered in 5 button colors
- "PUSH TO EXIT" message and handicap symbol choices provide obvious action indication
- Glow-in-the-dark and LED backlit button options
- Momentary action is standard; factory orderable with delayed (0-60 second) or alternate action
- Double pole, double throw optional (not available with delayed action)
- Standard, heavy-duty single gang faceplate or narrow stile option
- 1 1/4" inset, 1 5/8" mushroom and 2 3/4" large mushroom buttons
- 630 satin stainless steel standard plus 6 other finish options
- Extreme duty 631 models come standard in cast zinc with 626 satin chrome finish

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# Ordering information

621-GID-DA-SF-626

| Model | Button | Options | Finish |
|---|---|---|---|
| 1 | 2 | 3 | 4 |

**Selections correspond with the numbers to the left**

| 1 | Model |
|---|---|
| 621 | 1 1/4" Button, single gang |
| 623 | 1 5/8" Mushroom button, single gang |
| 625 | 2 3/4" Mushroom button, single gang |
| 631 | 1 1/4" Metal button, single gang |

| 2 | Button |
|---|---|
| GID-EX | Glow-in-the-dark "PUSH TO EXIT" |
| GID | Glow-in-the-dark |
| RD-EX | Red, "PUSH TO EXIT" |
| RD | Red |
| GR-EX | Green, "PUSH TO EXIT" |
| GR | Green |
| BL-H | Blue, handicapped symbol |
| BK | Black |
| AL-EX-RD | Aluminum button red coated, engraved "PUSH TO EXIT" |
| AL-EX | Aluminum button, engraved "PUSH TO EXIT" |
| AL | Aluminum button |

| 3 | Options |
|---|---|
| DA | Delayed action (0-60 seconds) |
| AA | Alternate action - maintained |
| DP | Double pole double throw (not available with DA option) |
| L2/ILL | 3 LEDs - green/yellow/red concealed within opaque cone (not available for 625/625-NS models) |
| NS | Narrow stile faceplate (1 3/4" x 4 1/2") |

| 4 | Finish |
|---|---|
| 630 | Satin stainless steel (standard) on .035 steel |
| SF-626 | Satin chrome (standard on 631 models) |
| SF-613 | Oil satin bronze |
| SF-625 | Bright chrome |

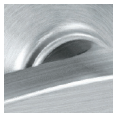
Note: Non-standard finishes on heavy-duty plate (HDP) 1/4" thick cast zinc

## Button configurations

| | GID-EX | GID-H | GID | RD-EX | RD | GR-EX | GR | BL-H | BK |
|---|---|---|---|---|---|---|---|---|---|
| 621 | PUSH TO EXIT | – | | PUSH TO EXIT | | PUSH TO EX IT | | | |
| 623 | PUSH TO EXIT | – | | PUSH TO EXIT | | PUSH TO EXIT | | | |
| 625 | – | – | – | PUSH TO EXIT | | PUSH TO EXIT | | | |

| | AL-EX | AL | AL-RD-EX |
|---|---|---|---|
| 621 | PUSH TO EXIT | | PUSH TO EXIT |
| 631 | PUSH TO EXIT | | PUSH TO EXIT |

## Optional Finishes



SF-626
Satin chrome
(standard on
631 models)

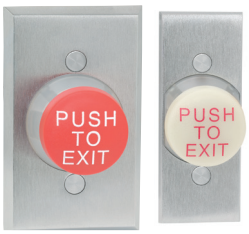
SF-613
Oil rubbed bronze

SF-625
Bright chrome

## Multiple button configuration

**621** 1 1/4" Button

**623** 1 5/8" Mushroom button




**625** 2 3/4" Mushroom button

**631 Extreme-duty** 1 1/4" Metal button

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# 700 Series

## Pushbuttons

## Overview

Schlage pushbuttons are used to control the ingress or egress of a door. The 700 Series pushbuttons are easy to install.

Schlage 700 Series entry level pushbuttons are designed to meet commercial applications. Use with indoor swinging or sliding doors that are electrically or electronically locked. 700 Series entry level pushbuttons are available for single gang and narrow stile applications. The 709 model includes backlit buttons with “PUSH TO EXIT” or handicap symbol to meet ADA requirements.

## Features and benefits

- Illuminated 2” square large button options or 5/8” and 7/8” round button options
- Optional dual LED status indicators in green and red
- For indoor use
- Momentary switch standard or factory orderable with maintained (alternate action) switch
- Handicapped symbol option
- Single gang or narrow style faceplate cover options
- Satin stainless steel finish

| 700 specifications | |
|---|---|
| 701 Pushbutton | |
| **Contact ratings** | 3A @ 30VAC/VDC, momentary SPDT contacts |
| **Wire leads** | 20 awg – 6" long |
| 709 Pushbutton | |
| **Contact ratings** | 5A @ 30VAC/VDC, momentary SPDT contacts |
| **Wire leads** | 20 awg – 8" long |
| Input requirements with LED option | |
| Voltage | 12/24 VDC |
| Current draw | 30 mA |
| Wire leads | 24 awg – 6" long |
| Input requirements with ILL option | |
| Voltage | 12 VDC for 709 series only<br>24 VDC for 701/709 series |

# Ordering information

- **701RD** - 7/8" Red mushroom button
- **701BK** - 7/8" Black mushroom button
- **701RD EX** - 5/8" Red button - engraved "PUSH TO EXIT"
- **701RD EX ILL** - 5/8" Red button – illuminated "PUSH TO EXIT"
- **709RD EX ILL** - 2" Red square - illuminated "PUSH TO EXIT"
- **709GR EX ILL** - 2" Green square – illuminated "PUSH TO EXIT"
- **709BLH ILL** - 2" Blue square – illuminated handicapped symbol

### Options

- **L2** - Two LEDs, red and green, dual voltage for status indication
- **AA** - Alternate action – maintained (701 series only)
- **NS** - Narrow stile plate (701 series only)

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# 740 Series

## Emergency break glass releases

## Overview

Schlage 740 Series emergency break glass releases are designed for use as emergency releases of non-designated egress doors such as in individual and partitioned laboratories, secluded testing areas or other isolated work rooms that are purposely provided with exit doors. In perimeter protection systems that involve the central control of electric locking devices, an on-site emergency release may be required. The “break glass” concept may be preferred over the pull station, because it is less vulnerable to misuse or tamper actuation.

The 740 Series emergency break glass units consist of a replacement break glass cartridge that normally holds the plunger-activated switch depressed until the cartridge lens is broken. When the lens is broken, the plunger moves forward and alters the switch contact position. Four replacement lens disks are provided with each assembly. The small hammer is attached to the break glass assembly via a mounting clip, along with a 12" chain, to insure it will not detach from the assembly.

## Features and benefits

- Surface mount in a standard 3-gang enclosure
- Compatible with all fail-safe type electronic locking systems
- An effective alternative to the standard pull box
- Stainless steel standard finish
- Models with LED or audible alarm
- Clearly marked signage indicating purpose of the release
- Includes 4 replacement lens disks

| 740 specifications | |
|---|---|
| Contact rating | 6A @ 30 VDC<br>Form Z switch |

## Ordering information

- **740** – Includes break glass switch assembly and hammer mounted to a silk-screened 3-gang stainless switch plate
- **741** – With indicator light
- **742** – With Sonalert horn operating at 80 dB @ 2 feet

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# 660 Series

## Mini station control

## Overview

The 660 Series mini station control is designed for concealed desk application, and it is used to release an electric or electronic locking mechanism from a remote location. The 660 Series mini station control is mounted in a mini aluminum box, 2" x 2" x 1". The 660 is available with a momentary action pushbutton or maintained action toggle switch. Both can be surface mounted. A typical application is under a desk to release an entrance door.

## Features and benefits

- Surface mount application
- Choice of maintained or momentary action
- Compact size
- Recommended for concealed desk application

| Specifications | |
|---|---|
| Switch contact rating | 6 amp @ 120 VAC |
| Length | 2" |
| Width | 2" |
| Height | 1" |

## Ordering information

- **660-T4** - SPDT maintained toggle
- **660-PB** - SPDT momentary pushbutton

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# 650 Series

## Keyswitches

## Overview

Schlage 650 Series keyswitches utilize an innovative magnetic spring design which allows installers to configure both clockwise and counterclockwise key turn direction as well as momentary or maintained action in seconds. Single gang and narrow stiles are available with numerous options which include heavy-duty plate, weather resistant cover (single gang size only), 2 LED lights – green/red, anti-tamper switch and Schlage Everest cylinder. in addition to the standard (630) satin stainless steel finish, there are five additional architectural finishes to choose from.

## Features and benefits

- Easy to install and maintain
- Single gang and narrow stile offer ultimate flexibility
- Multiple options
- Patented magnetic spring design allows installers to configure momentary to maintained action in seconds
- Available options include red/green LED lights, anti-tamper switch and Schlage Everest cylinder
- Available water-resistant cover
- Single pole, double throw or double pole, double throw in both maintained and momentary action with a variety of combinations
- Standard 630 satin stainless steel plate with 5 additional finish options on heavy-duty zinc plate
- Standard or narrow stile cover options

# Specifications

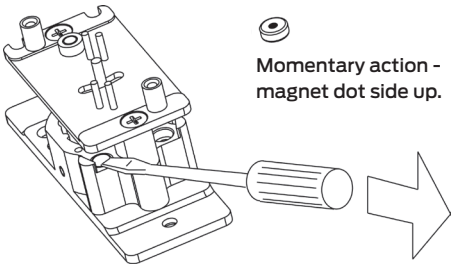
**Standard keyswitch**
- 5 amp @ 30 VDC
- SPDT contacts

**ATS** switch closes when cover is on 0.025A@28VDC

**LED** indicator lights operate at 12/24 VDC 0.500A @ 30VDC

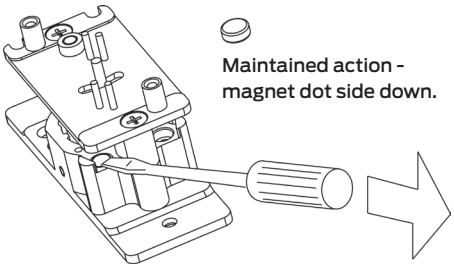
Innovative magnetic spring technology allows installers to configure models in seconds

**Momentary action**



Momentary action - magnet dot side up.

**Maintained action**



Maintained action - magnet dot side down.

# Ordering information

- **653-04** - SPDT maintained single direction
- **653-05** - SPDT momentary single direction
- **653-14** - DPDT maintained single direction
- **653-15** - DPDT momentary single direction
- **653-1414** - (2) DPDT maintained bi-direction
- **653-1415** - DPDT maintained x DPDT momentary
- **653-1515** - (2) DPDT momentary bi-direction
- **653-041** - SPDT maintained x key remove one position
- **653-0404** - (2) SPDT maintained bi-direction
- **653-0405** - SPDT maintained x SPDT momentary
- **653-141** - DPDT maintained x key remove one position
- **653-0505** - (2) SPDT momentary bi-direction

Options
- **L2** - Two LEDs (red/green), dual voltage
- **NS** - Narrow stile - stainless steel plate (1 3/4" x 4 1/2")
- **ATS** - Anti-tamper switch
- **WP** - Weather-resistant cover fits 1 1/8" cylinder only (not available with NS and L2 options)
- **CYL** - 1 1/4" Schlage Everest® mortise cylinder and 1/8" spacer ring (keyed different)
- **CYL-KA** - 1 1/4" Schlage Everest mortise cylinder and 1/8" spacer ring (keyed alike)

Finishes
- **630** - Satin finsih on .035 stainless steel (standard)
- **SF-626** - Satin chrome on heavy-duty zinc
- **SF-605** - Bright brass on heavy-duty zinc
- **SF-612** - Satin bronze on heavy-duty zinc
- **SF-613** - Oil rubbed bronze on heavy-duty zinc
- **SF-625** - Bright chrome on heavy-duty zinc

Note: 650 Series keyswitches operate with either a 1 1/8", 1 1/4", 1 3/8", or 1 1/2" cylinder having a straight type cam.
- 1 1/8" mortise cylinder fits direct in key switch - no blocking ring required.
- 1 1/4" cylinders require a 1/8" blocking/spacer ring, Schlage part number 36-079-012 or equivalent (included with the CYL and CYL-KA options).
- 1 3/8" mortise cylinder housing for SFIC cores - requires 1/4" blocking ring Schlage part number 36-079-025 or equivalent.
- 1 1/2" mortise cylinder housing for FSIC cores - requires 3/8" blocking ring Schlage part number 36-079-037 or equivalent.

All cylinders, except 1 1/4" as CYL or CYL-KA options, must be ordered separately.

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# 672 Series

## TouchBar

## Overview

The 672 TouchBar is a request-to-exit device which releases electronic locking devices, most commonly electromagnetic locks when the bar is depressed. The “PUSH TO EXIT” signage provides an obvious exit indication for building occupants and the simplified design allows for reversing the signage in the field. The new pivoting bar design allows 1/4" activation and the 2 1/4" low profile provides ample clearance through the door - notably less than others in the industry.

The 672 TouchBar request-to-exit device is easy to install and simple to wire. The device’s rugged cast ramped end caps deflect blows and provide extra durability.

- 1/4" Movement activates immediate release
- Standard Double Pole, Double Throw switch utilized

## Features and benefits

- 1/4" movement of bar activates immediate release
- Large “PUSH TO EXIT” lettering provides obvious exit indication with glow-in-the-dark option
- Low profile provides ample clearance through the door
- Releases electromagnetic or electrified locks when bar is depressed
- Left- or right-hand reverse (field reversible)
- Field sized or orderable for 36", 42" or 48" doors
- For aluminum, hollow metal and wood doors
- Pivoting bar design allows 1/4” activation
- Heavy-duty aluminum extrusion with powder coat cast metal end caps for maximum durability
- Quick installation brackets/universal mounting system

| 672 TouchBar electrical specifications | |
|---|---|
| Input voltage | 12 or 24 VDC maximum current draw .25 amps |
| Switch | DPDT contacts rated 4 amps @ 30 VDC |
| Wiring | 6 conductor cable - 20 AWG (standard) |

# Ordering information

### Models
- **672 RD** - Black with red “PUSH TO EXIT”
- **672 GID** - Black with glow in the dark “PUSH TO EXIT”

### Door size
- 36", 42" or 48"

### Finishes
- **628** - Satin anodized aluminum (standard)
- **313** - Dark satin bronze anodized aluminum

### Handing
- **RHR** - Right hand reverse
- **LHR** - Left hand reverse -field reversible

### Options
- **WD** - Through bolt door kit for heavy-duty wood door and hollow metal door applications
- **AR -** 18" x ½" armored door cord (less wire)
- **SHK** - Aluminum door mounting shim kit includes brackets, shims and screws for narrow stile aluminum doors.*

* Note: Screw pack has self-drilling and self-tapping screws for aluminum and wood door applications and rivnuts for hollow metal door applications.

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# 692 Series

## SmartBar™

## Overview

The 692 SmartBar is an electronic switching device with no moving parts, which serves as a non-latching request-to-exit device. It allows one motion egress at doors equipped with an electronic locking device, most commonly an electromagnetic lock, with “no prior knowledge” required by the user. Touching the SmartBar at any point on the bar activates internal circuitry which controls power to the locking device. No moving parts results in low maintenance and long life.

The 692 SmartBar provides two directionally opposed infrared detection circuits to sense an exit request. As a person touches the bar, the light beam is broken. The redundant system provides a high level of life safety and peace of mind to the end user.

An audible alarm is standard. This feature provides a security alarm to alert when there is a prolonged unlocked condition caused by a continued break in the light beam. This feature is desirable in applications requiring monitoring of security conditions or delayed egress.

- Dual Infrared detection circuits
- No moving parts – one motion egress
- Audible alarm standard, alerts prolonged unlock condition
- Standard Double Pole, Double Throw switch utilized

## Features and benefits

- Infrared detection along bar releases locking device when light beam is broken
- One motion egress when installed with electromagnetic or electrified locks
- Large “PUSH TO EXIT” lettering provides obvious exit indication with glow-in-the-dark option
- Low profile provides ample clearance through the door
- Audible alarm is standard
- Left- or right-hand reverse (field reversible)
- Field sized or orderable for 36”, 42” or 48” doors
- For aluminum, hollow metal and wood doors
- No moving parts for low maintenance and long life
- Heavy-duty aluminum extrusion with cast metal end caps for maximum durability
- Quick installation brackets/universal mounting system

| 692 SmartBar electrical specifications | |
|---|---|
| Input voltage | 12 or 24 VDC maximum current draw .5 amps |
| Switch | DPDT contacts rated 4 amps @ 30 VDC |
| Wiring | 8 conductor cable - 20 AWG (standard) |

# Ordering information

### Models
- **692 RD** - Black with red “PUSH TO EXIT”
- **692 GID** - Black with glow in the dark “PUSH TO EXIT”

### Door size
- 36", 42" or 48"

### Finishes
- **628** - Satin anodized aluminum (standard)
- **313** - Dark satin bronze anodized aluminum

### Handing
- **RHR** - Right hand reverse
- **LHR** - Left hand reverse - field reversible

### Options
- **WD** - Through bolt door kit for heavy-duty wood door and hollow metal door applications
- **SHK** - Aluminum door mounting shim kit includes brackets, shims and screws for narrow stile aluminum doors.*

* Screw pack has self-drilling and self-tapping screws for aluminum and wood door applications and rivnuts for hollow metal door applications.

Note: 18" x ½" armored door cord shipped standard.

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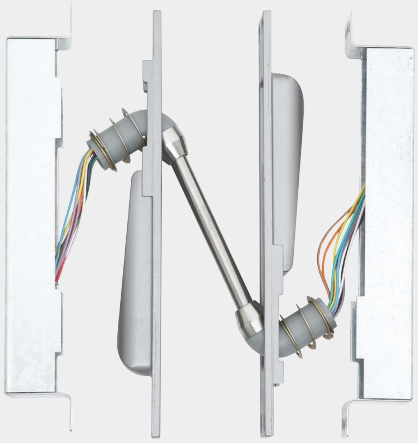
# Electrical power transfer



## Overview

Electric power transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completely concealed when the door is in the closed position, and are ideally suited for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires.

## Features and benefits

- UL Listed for use on fire doors
- UL listed as Miscellaneous Door Accessory
- Ball-and-socket joint construction provides cut and pinch protection for wiring
- Built for heavy traffic and high abuse openings
- EPT-2 and EPT-10 are UL634, ULC/ORD C634 and UL10C/CAN-ULC-S104 certified
- PNT-1 is UL10C/CAN-ULC-S104 certified

# Door applications

- Up to 5" butt hinges – 180° swing.
- 5 1/2" butt hinges – 130° swing.
- 6" butt hinges – 110° swing.
- 3/4" offset pivots – 180° swing.

Not for use with swing clear hinges, center-hung pivots, pocket pivots or balanced doors.

Door applications shown are for 1 3/4" door thickness, for all other applications contact Technical Support to confirm compatibility.

# Finishes

- SP28 (sprayed aluminum)
- SP313 (sprayed duranodic)

## Dimensions

| | |
|---|---|
| Housing | 9" X 1 1/4 X 1 5/8 (229mm X 32mm X 38mm) |
| EPT-2 | Two 18 gauge wires, up to 2 AMPS @ 24VDC, with a 16 AMPS maximum surge |
| EPT-10 | Ten 24 gauge wires, up to 1 AMPS @ 24VDC, with a 16 AMPS maximum surge |
| PNT-1 | 5/32" tubing |

## To order, specify

- **EPT-2, EPT-10 or PNT-1.**
- **Finish, SP28 or SP313.**

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IVES

# Electrified hinges

## Overview

Ives offers electrification options on a wide variety of our 3 knuckle and 5 knuckle hinges, including standard and heavy weight. These hinges transfer power and signals from the frame to the door. Electrified hinges hide wiring from view to provide a more pleasing aesthetic and a more secure application.

Electrified hinges integrate seamlessly with your access control system and your door mounted electrified hardware.

Ives electrified offering comes standard with Allegion Connect, a quick and easy way to connect power sources for the entire opening. With no wire cutting needed, you can reduce installation and maintenance time, ultimately cutting cost. After installation, Allegion Connect continues to provide benefits throughout the lifetime of the opening by offering a comprehensive service kit.

For more information about the Allegion Connect offering, contact customer support at 877-671-7011.

## Features and benefits

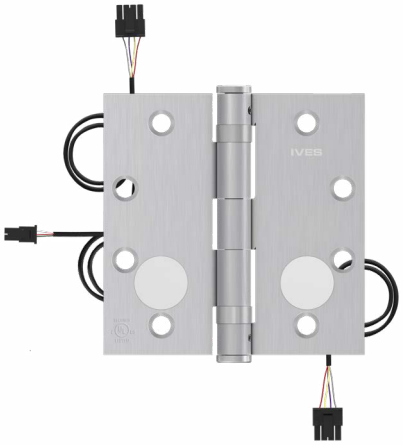
- Electrified hinge available in 3 and 5 knuckle
- High quality brass ferrules and plastic tubing protect the wires
- Comes standard with Allegion Connect 8-pin connectors
- Available in four wire (TW4), eight wire (TW8) and twelve wire (TW12)
- Through-wire hinges cycle tested to ensure durability
- UL Listed - UL634
- Certified to ANSI/BHMA A156.1

## Available options

- **Through-wire** – TW4 (4 wires), TW8 (8 wires), and TW12 (12 wires)
- **Monitor** – MON
- **Through-wire with monitor** – TW4M and TW8M

Through-wire is rated for 50 volts AC/DC at 3.5 AMP continuous and 16 AMP pulse, maximum pulse 400 mili second.

Monitor rated 30VDC at .25 AMP.



Features 5BB1 hinge and the through-wire 8 with monitor (TW8M)

## Finishes

| Brass | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ives finish | US3 | US4 | US10 | US10B | US10A | US11 | US11E | US15 | US19 | US26 | US26D | |
| BHMA | 605 | 606 | 612 | 613 | 614 | 616 | B643e / 716 | 619 | B-BLK | 625 | 626 | |
| **Steel** | | | | | | | | | | | | |
| Ives finish | USP | US3 | US4 | US10 | US10B | US10A | US11 | US11E | US15 | US19 | US26 | US26D |
| BHMA | 600 | 632 | 633 | 639 | 640 | 641 | 643 | F643e / 716 | 646 | F-BLK | 651 | 652 |
| Stainless steel | | | | | | | | | | | | |
| Ives finish | US32 | US32D | | | | | | | | | | |
| BHMA | 629 | 630 | | | | | | | | | | |

**For more information, such as install instructions and templates, visit the Allegion website.**

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IVES

# Power transfer pivots

## Overview

Ives offers electrified intermediate power transfer pivots and electrified pocket pivots to transfer power and signals from the frame to the door. Pivots are generally used on heavier exterior door applications.

Power transfer pivots integrate seamlessly with your access control system and your door mounted electrified hardware.

The Ives electrified offering comes standard with Allegion Connect, a quick and easy way to connect power sources for the entire opening. With no wire cutting needed, you can reduce installation and maintenance time, ultimately cutting cost. After installation, Allegion Connect continues to provide benefits throughout the lifetime of the opening by offering a comprehensive service kit.

For more information about the Allegion Connect offering, contact customer support at 877-671-7011.

## Features and benefits

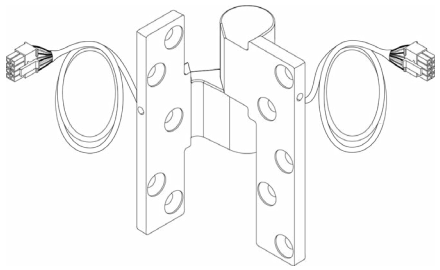
- Available in four wire (TW4) or eight wire (TW8), 28 gauge
- Comes standard with Allegion Connect 8-pin Connector
- Recommended use: VDC or VAC @ 3.5 amps continuous or 16 amp pulse, maximum pulse 400 milliseconds
- Non-load bearing
- Use with 1 3/4" thick door minimum, 1/8" bevel in 2"

# Models and additional specifications

## 7215PT-7226PT-7227PT INT 3/4"

### Offset Power Transfer intermediate pivot

- For use with 7215, 7226, 7227 offset pivots
- Offered in brass substrate
- UL Listed, 20-minute fire doors
- Handed LH or RH
- Finishes: 605, 606, 612, 613, 619, BLK/622, 625, 626, 643e, SP28, SP10, SP313, SP4



## 7215FPT-7226FPT-7227FPT INT 3/4”

### Offset Power Transfer intermediate pivot, fire rated

- For use with 7215F, 7226F, 7227F offset pivots
- Offered in stainless steel substrate
- UL Listed, 3-hour fire doors
- Handed LH or RH
- Finishes: 629, 630, 631, 632, 639, 643e,SP28, SP10, SP313, SP4

## 7230FPT-7237FPT INT 3/4”

### Offset Power Transfer intermediate pivot

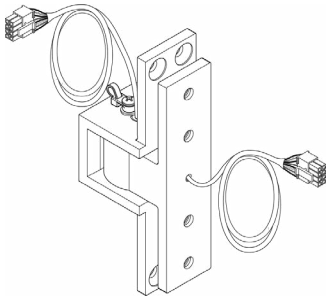
- For use with 7230F, 7237F offset pivots
- Offered in stainless steel substrate
- UL Listed, 3-hour fire doors
- Handed LH or RH
- Finishes: 629, 630, BLK/631, 632, 639, 643e, SP28, SP10, SP313, SP4

---

## E91105F

### Pocket Pivot/Hinge, power transfer, fire rated

- For use with 7220F, 7237F offset pivots
- Full Mortise, non-load bearing
- Offered in stainless steel substrate
- UL Listed, 3-hour fire doors
- Finishes: 600, 629, 630, 632, 639, 643e, SP313



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# 788/798 Series Armored door cords

## Overview

Used when installing electric exit devices or electrified locks, armored door cords provide a simple and economical solution for transferring power from frame to door. Schlage flexible door cords are offered in two lengths each with options for less wires or including four, 20 gauge conductor wires (red, green, white and black).

## Features and benefits

- ANSI/UL 10C, CAN/ULC-S104-15

# Specifications

**Acceptable wire size combinations**

- Five 18 gauge
- Two 18 gauge and four 20 gauge
- Two 18 gauge and seven 22 gauge
- Seven 20 gauge
- Twelve 22 gauge

**5/16" interior diameter; 3/8" outside diameter flexible door cord**

- **788-12** - 12" x 3/8" less wires (inswinging)
- **788C-12** - 12" x 3/8" with four 20 gauge, 20" long conductor wires (red, green, white, black)
- **788-18** - 18" x 3/8" less wires (outswinging)
- **788C-18** - 18" x 3/8" with four 20 gauge, 26" long conductor wires (red, green, white, black)

**3/8" interior diameter; 1/2" outside diameter flexible door cord**

Acceptable wire size combinations

- **798-12** - 12" x 1/2" less wires (inswinging)
- **798C-12** - 12" x 1/2" with four 20 gauge, 20" long conductor wires (red, green, white, black)
- **798-18** - 18" x 1/2" less wires (outswinging)
- **798C-18** - 18" x 1/2" with four 20 gauge, 26" long conductor wires (red, green, white, black)

**Certification:**

- **UL 10 C**

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# 800/801 Series

## Remote and local monitoring stations

## 800 Series

**Local and remote monitoring station**

The 800 Series monitoring stations can provide monitoring for a single zone with choice of audible or visual monitoring.

## 801 Series

**Local and remote monitoring station**

The 801 unit includes an audible and visual indication of lock status and delay activation. Interfaces with electromagnetic locks with magnetic bond sensor (MBS) option. Unit mounts in a standard single gang electrical box.

The 801-KS fulfills a code requirement stating that a local signal assures users that a delayed egress system is functional. The unit includes an audible and visual indication of lock status and delay activation. Provides a Single Pole, Double Throw (SPDT) momentary x SPDT maintained contact arrangement keyswitch for legal release and reset of the system, which interfaces with a standard 1 ¼" mortise cylinder with standard straight cam. Option to interface with electromagnetic locks with Magnetic Bond Sensor (MBS). Unit mounts in a standard double gang electrical box.

## Features and benefits

- 800 Series local and remote monitoring stations
  - 800L1 with one LED indicator (red, green or amber)
  - 800L2 with two LED indicators (red, green or amber) (photo)
  - 800A horn monitor, 70 dB @ 2 ft
- 801 Series local and remote monitoring stations
  - 801 with three LED indicators and horn monitor, 70 dB @ 2 ft
  - 801KS with LED indicators, horn monitor and keyswitch (photo)

## 800 specifications

| | |
|---|---|
| LED Operating power | 12-24 VDC |
| LED current draw | 3-14 mA ea. |
| Audible input | 10-28 VDC |
| Audible current draw | 3-14 mA |
| Decibel rating | 70 dB @ 2 ft |
| Single gang unit | |
| Width | 2 3/4" |
| Depth | 1 1/8" |
| Height | 4 1/2" |
| Finish | Stainless steel |
| 800L1 | One (1) LED Indicator - red, green, and amber |
| 800L2 | Two (2) LED Indicators - red, green, and amber |
| 800A | Audible sounder |

## 801 specifications

| | |
|---|---|
| LED Operating power | 12-24 VDC |
| LED current draw | 3-14 mA ea. |
| Audible input | 10-28 VDC |
| Audible current draw | 3-14 mA |
| Decibel rating: | 70 dB @ 2 ft |
| Single gang unit<br>801* Local or remote monitoring system | |
| Width | 2 3/4" |
| Depth | 1 1/8" |
| Height | 4 1/2" |
| Finish | Stainless steel |
| Double gang unit<br>801-KS* local or remote monitoring system with keyswitch (less cylinder) | |
| Width | 4 9/16" |
| Depth | 1 15/16" |
| Height | 4 1/2" |
| Finish | Stainless steel |
| Keyswitch contacts | 5 Amp @ 30 VDC |

*Note: 801/801-KS requires MBS on locking device.

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# 8200 Series

## Consoles

## Overview

Schlage 8200 Series desk consoles provide door control and monitoring for up to eight zones. Designed to meet a wide range of security requirements, the 8200 Series can control and monitor electric strikes, electromagnetic locks, electromechanical exit devices or other electric locks. The console can also be used for surveillance of monitoring devices.

The circuit boards inside the console are shipped for four or eight zone applications. This design allows for momentary or maintained switch operation. Pushbuttons control and monitor assigned zones, and a signaling horn provides an audible alert of any conditions change that is associated with the red indicator lamp. Console control can be disabled with the security keyswitch.

## Features and benefits

- Slope front design, with anodized face plate and durable housing
- Each station provides maintained or momentary Single Pole, Double Throw (SPDT) pushbutton switch
- Red and green indicator lamps
- Security keyswitch
- Signaling horn
- Alarm reset button
- 24 VDC operation

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# System design guide

There are a number of applications where an 8200 Series Console is used to monitor and control multiple door openings. It is ideal for use at a guard or nurse station. (An example of a riser diagram for a two door nurse's station console is shown below.)

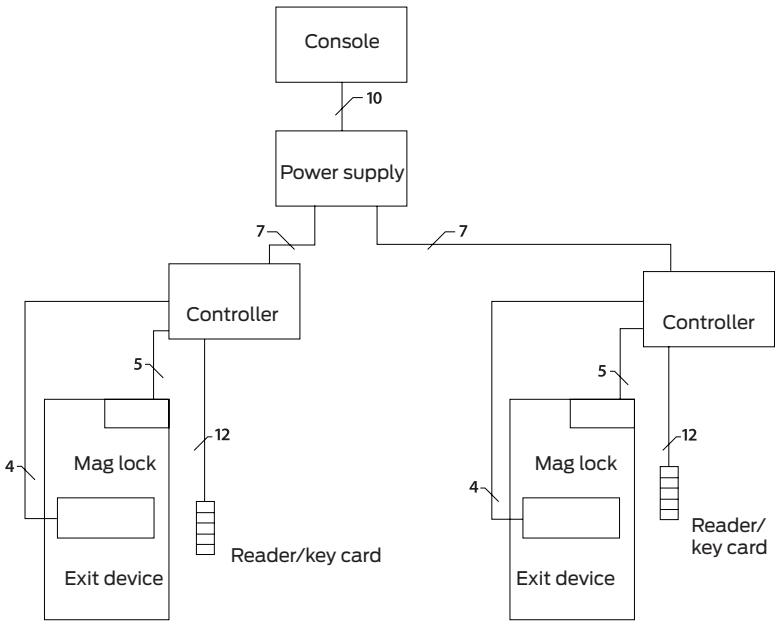
# Description of system operation

Two single doors, each normally closed and secured by a magnetic lock. Magnetic lock to include Magnetic Bond Sensor (MBS) for remote monitoring of secure/not-secure condition. Legal access to be provided by keypad system. Egress to be provided by touch sensitive exit bars. Remote control and monitoring to be by a slope front desktop console. Each of two stations shall provide a momentary pushbutton switch for legal release, a red indicator for "not-secure" condition and a green indicator for "secure" condition.

## Specifications

| | |
|---|---|
| Switches (momentary or maintained) | 1.0 amps 24 VDC |
| Lamps #85 red/green | 40 mA @24 VDC |
| Terminal block | 18/22 gauge wire |
| Alarm output | 0.5 amps @ 24 VDC (breaker protected) |
| Temperature range | 32º to 120ºF (0º to 49ºC) |
| Input voltage | 24 VDC, +/- 15% |

# Riser diagram




# Ordering information

Last digit indicates number of zones

**4 station console**
**8204**

**8 station console**
**8208**

**Pushbutton function**

- Select pushbutton function by zone.
- Select M (momentary) or A (alternate action, maintain) for each zone.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| ▪ **8204** | _ | _ | _ | _ | | | | |
| ▪ **8208** | _ | _ | _ | _ | _ | _ | _ | _ |

**Accessories**

Field installable push buttons

- **8200MS** – Momentary switch assembly
- **8200AS** – Alternate action (maintained) switch assembly

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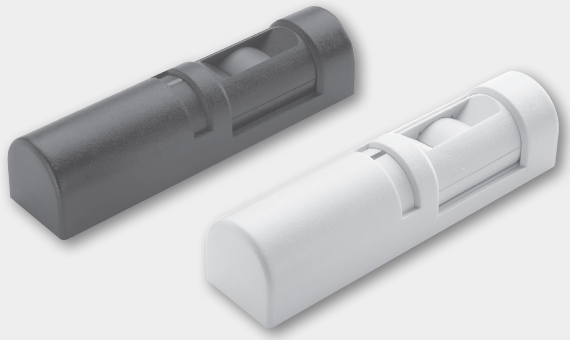
# Scan II™

## Passive infrared motion sensors



## Overview

The Scan II™ is a compact, passive infrared detector specifically designed for “request-to-exit” applications. It features adjustable relay latch time, an externally visible activation LED, and two form “C” relays.

The high-impact ABS plastic enclosure in black or white comes apart in 3 pieces for easy mounting and lock-in-place scanner angle adjustment. Internal angle setting marks aide optimal coverage configuration for both wall and ceiling mounting. Mounting height is 7 to 15 feet allowing coverage area of the Scan II sensor of up to 8 by 10 ft (2.4 m by 3 m).

## Features and benefits

- Adjustable relay latch time from 0.5 to 64 seconds
- Field-selectable fail safe/fail secure
- Included pattern masking kit snaps in place to narrow scan field and help prevent unwanted activations
- Activation LED is visible at a distance and can be configured to OFF as needed
- Intended for indoor use only
- Wall or ceiling mounted with lock-in-place angle adjustment
- UL294 and ULC-S319, Class 1 listed by manufacturer
- High-impact ABS plastic enclosure and internal electronics can endure temperatures of -20° to 120°F
- Inconspicuous unit is only 1.5” x 6.25” x 1.5” in either black or white

# Specifications

### Models

- Scan II-B: black with externally visible activation LED
- Scan II-W: white with externally visible activation LED

### Power requirements

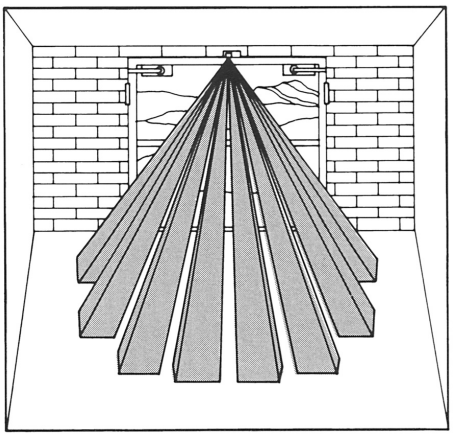
- 12/24 VDC: 35 mA @ 12 VDC; 38 mA @ 24 VDC when activated
- 12/24 VAC: 42 mA @ 12 VAC; 48 mA @ 24 VAC when activated
- 38 mAh required for standby operation (no internal standby battery)

### Relay

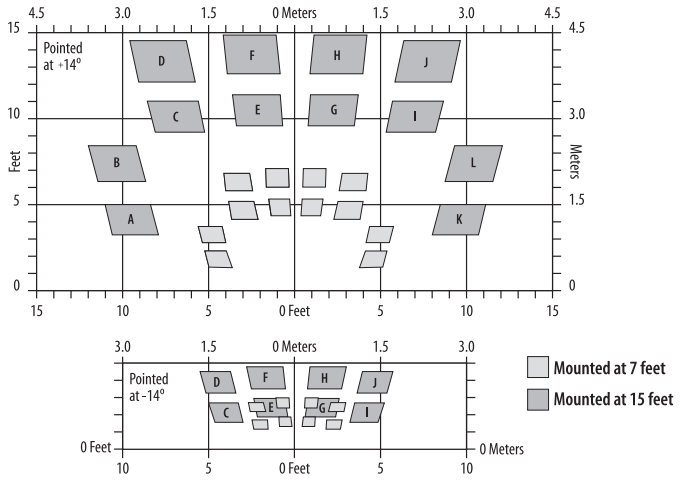
- Two form "C" relay contacts rated 2.0 Amp @ 30 VDC or VAC maximum for DC resistive loads

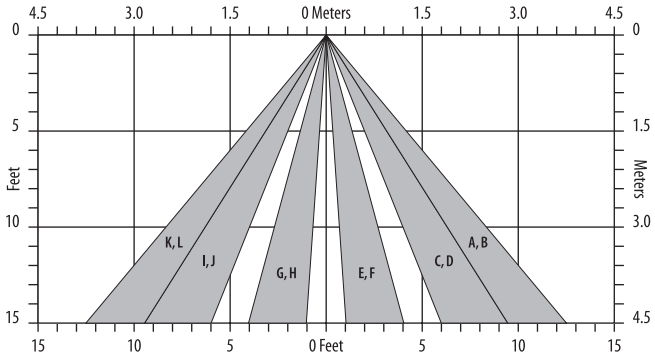
### Installation options

- Adjustable relay latch time from 0.5 to 64 seconds
- Relay mode can be programmed to reset when timer expires or remain activated until motion stops
- Field-selectable fail safe/fail secure
- Mounting height of 7 to 15 feet (indoors only)
- Lock-in-place pattern adjustment is +/- 14° with separate settings for wall vs. ceiling application

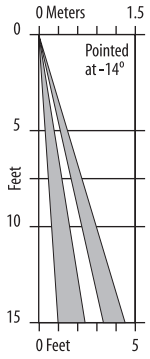


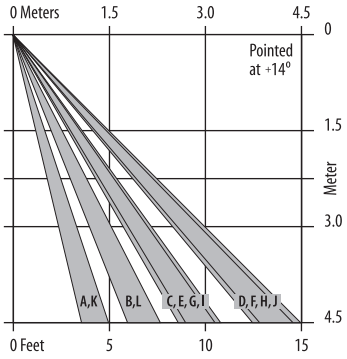
**Standard pattern**
Shown wall mounted, angled 14° down.




**Front view**




**Side view**

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# 1910 Series

## Electronic horns

## Overview

Electric horns are designed for use as an immediate local audible warning device incorporated in a security system. 1910 celica horns have six combinations of volume using continuous or intermittent tone that are easy to configure. Latching models can be set up to sound when a door latchbolt retracts or the door opens. Strobe light models are also available.

Units are flush (partially recessed) or surface mounted using a 4" black box and attached using two #8-32 X ¾" screws. Surface and flush mounting kits are included with all horns.

## Features and benefits

- Latching models alarm upon the latch release or opening of a connected door
- Audible warning has six combinations of volume using intermittent or continuous tone with loudest tested to 102 dba
- Strobe option adds visual warning indication
- Intended for indoor use only
- Flush mount to wall over a standard one- or two-gang electrical box
- Surface mount using pull through wiring and the backbox kit included with the product
- Horn shell and trim skirt in off-white
- Unit dimensions: 4¾"W x 5½"H

# Specifications

### Models

- 1910-1: 12/24 VDC horn
- 1910S-1: 24 VDC horn with strobe
- L1910-1: 24 VDC horn with latching
- L1910S-1: 24 VDC horn with strobe and latching

### Power requirements

- Less than 14 mA @ 12 VDC
- Less than 28 mA @ 24 VDC
- Less than 71 mA @ 24 VDC with strobe

### Other

- Operating temperature: 32ºF to 120ºF
- Anechoic chamber tested @30 V 102 dba
- UL reverberant room tested @30 V 88 dba

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# Door position switches

674-OH

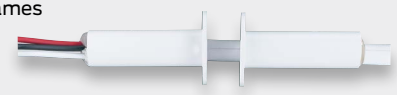
Overhead door, floor mount magnetic switch

## Overview

Door position switches are used to detect the open or closed status of an opening and then send this status to a control panel. They come in a variety of shapes and sizes and are designed for monitoring door positions, roof hatches, gates etc.

### Concealed SPDT magnetic switches

- For wood doors and frames
- 0.3 Amps @ 30 VDC
- UL10C/CAN-ULC-S104



679-05

- For hollow metal doors and frames
- 0.3 Amps @ 30 VDC
- UL10C/CAN-ULC-S104

679-05HM

- For wood doors and metal frames
- 0.3 Amps @ 30 VDC
- UL10C/CAN-ULC-S104

679-05WD

### Concealed/flush mount magnetic switches

- For aluminum, wood and hollow metal doors
- 0.25 Amps @ 30 VDC
- UL10C/CAN-ULC-S104

7764

### Surface mount magnetic switches

- For aluminum, wood and hollow metal doors
- 0.25 Amps @ 30 VDC
- UL10C/CAN-ULC-S104

7766

## Ordering information

- **674-OH** - Overhead door floor mount
- **679-05** - Wood door and frame
- **679-05HM** - Hollow metal door and frame
- **679-05WD** - Wood door and metal frame
- **7764** - Concealed/flush mount
- **7766** - Surface mount

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# FSS1

## High-security door position sensor

## Overview

The FSS1 Series of high-security Door Position Sensors (DPS) are designed to provide a true high-security solution impervious to defeat through magnetic, electronic or physical means. It is a state-of-the-art monitoring solution with a flush mount version for new construction, and surface mount version as a superior replacement for traditional magnetic balanced reed sensors.

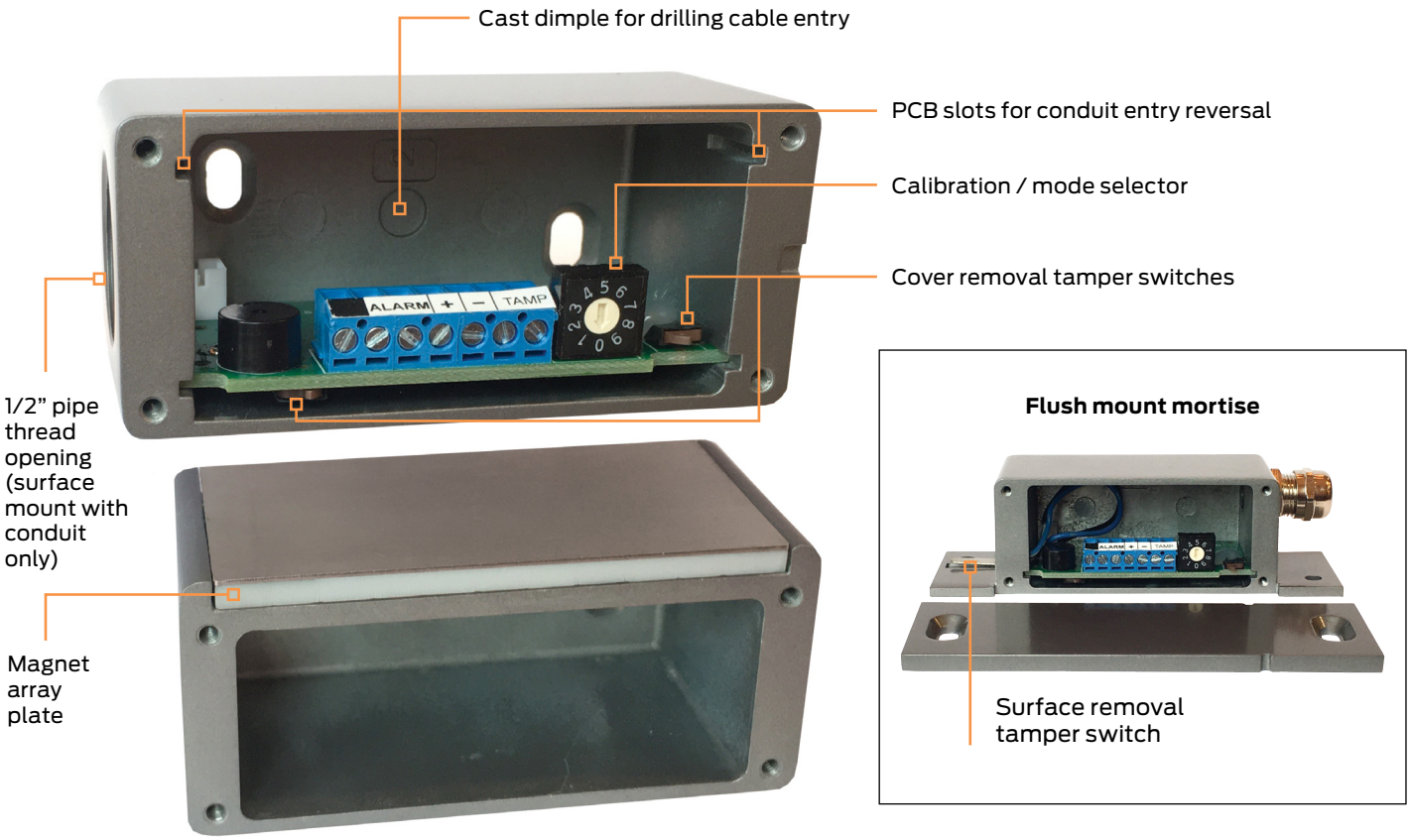
Specifically developed for high-security applications in government and military installations, FSS1 Series high-security DPS consist of seven magnetic sensors that are used to detect a unique magnetic footprint from an array of magnets on the opposing magnetic faceplate. The FSS1 learns its three-dimensional environment using one sensor to detect the distance of the magnetic faceplate in relation to the device, while the other six sensors are used to determine the polarity, size, strength and position of the magnets on the unique faceplate. This three-dimensional data is registered into the device. Any interruption, change or tampering with the device cover will trigger a response at the door and/or through the network as a silent or audible alarm.

## Features and benefits

- Ideal for high security applications including server farms, government facilities, and military bases
- Utilizes sensors to detect a unique magnetic footprint created from an array of magnets in the faceplate
- Sensors “learn” a three-dimensional unique magnetic signature created by the polarity, size, strength, and position of the magnetic array plate
- Sensors can be recalibrated to accommodate for door replacement or maintenance
- Adjustable anti-tamper feature creates an audible and/or network notification in case of tampering to either the magnetic field or the device cover
- Proven hardware impervious to defeat through magnetic, electronic or physical means
- Low voltage, solid-state components
- 3 models: surface mount with conduit, surface mount no conduit, and flush mount
- Can be deployed in existing and new high-security facilities

## FSS1 specifications

| | | | |
|---|---|---|---|
| Part number | 194555101647 | 194555101654 | 194555101661 |
| Part description | FSS1 high-security DPS surface mount w/conduit | FSS1 high-security DPS surface mount w/o conduit | FSS1 high-security DPS flush mount mortised |
| Voltage / current | 10-30VDC/<45mA | 10-30VDC/<45mA | 10-30VDC/<45mA |
| Alarm and tamper contacts | 2 by N.C. (normal closed) common N.O. (normal open), 0.2A @ 30V | | |
| Door gap | .04-.26in vertical door gap, and up to .59in door movement for alarm to trigger<br>1-7mm vertical door gap, and up to 15mm door movement for alarm to trigger | | |
| End of line compatibility | Space for type 1 & 2 end-of-line encryption modules | | |
| Dimensions | L=2.96in H=1.34in D=1.38in<br>L=75mm H=34mm D=35mm | L=2.96in H=1.34in D=1.38in<br>L=75mm H=34mm D=35mm | L=4.33in D=1.26in W=1.38in<br>L=110mm D=32mm W=35mm |
| Approvals | UL 634 High Security Level 2 - listed equipment BP9752 | | |
| Hall effect sensors | 7 | 7 | 7 |
| Patents | Patents granted and pending worldwide based on PCT/AU2014/000210 | | |
| Manufacture | Designed and manufactured in Australia | | |

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# PB405 and PB405S

## Electrified powerbolts

## Overview

The PB405 PowerBolt is a mortise, right angle deadbolt with a .61” diameter bolt and a .67" throw. It is available fail-safe PB405 or fail-secure PB405S. PowerBolts install in the door frame for minimal impact to the door and a clean, cohesive opening

Note: Electromechanical powerbolts not recommended where life safety may be compromised or where panic bar hardware is the only means of egress.

## Features and benefits

- 12/24V DC
- Magnetic door position switch
- Built in relocking time delay, field selectable for 0, 3, 6 or 9 seconds
- Fail-safe or fail-secure
- Mortise mount PowerBolts furnished in satin aluminum finish

# Specifications

**PB405 electric PowerBolt lock (fail-safe)**

- Door position switch
- 12/24 VDC dual voltage, field selectable
- Current draw: 0.9A @ 12 VDC, 0.45A @ 24 VDC
- Fail-safe type (power to lock)
- Built-in relocking option
- Relocking time delay time: 0 sec., 3 sec., 5 sec., 9 sec. field selectable utilizing two simple dip switches
- Bolt diameter: 0.61 in
- Bolt throw: 0.67 in
- Weight: 1.9 lbs
- Dimension (L x W x D): 7.87 in x 1.26 in x 1.57 in

**PB405S electric PowerBolt lock (fail-secure)**

- Door position switch
- 12/24 VDC dual voltage, field selectable
- Current draw: 0.9A @ 12 VDC, 0.45A @ 24 VDC
- Fail-secure type (power to open.), MOV surge protection.
- Relocking time delay time: 0 sec., 3 sec., 5 sec., 9 sec. field selectable utilizing two simple dip switches
  Built-in relocking option
- Bolt diameter: 0.61 in
- Bolt throw: 0.67 in
- Weight: 1.9 lbs
- Dimension (L x W x D): 7.87 in x 1.26 in x 1.57 in

# Ordering information

- **405** - Rectangular front, fail-safe
- **405S** - Rectangular front, fail-secure
- **Fail-secure lock** – Requires power to unlock
- **Fail-safe lock** – Requires power to lock

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# 442S

## Electronic cabinet lock

## Overview

The 442S is a compact and easy to install hardwired cabinet lock. It is fail secure and driven by a dual voltage solenoid. The voltage is field selectable 12 or 24 VDC. This makes ordering easy and provides greater flexibility in the field.

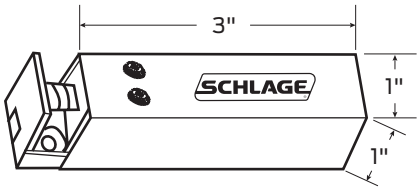
The 442S can be mounted horizontally or vertically to control access to a wide range of swinging or sliding cabinets and drawers. The 442S can be controlled by any kind of access control system that provides a dry contact output. Its small size and versatile mounting position allows you to bring increased monitoring and control to hard to reach applications such as pharmaceutical cabinets, cash drawers and display cases.

## Features and benefits

- Fail-secure power failure mode
- Dual voltage 12/24 VDC, field selectable
- Open architecture design, compatible with wide range of Physical Access Control Software (PACS) providers
- Flexible mounting options
- Ideal for pharmaceutical cabinets, cash drawers and display cases

## Specifications

| | |
|---|---|
| Input voltage | 12/24VDC dual voltage, field selectable |
| Current draw | .5 Amp @ 12VDC<br>.25 Amp @ 24VDC |
| Dimensions (L x W x D) | 3" x 1" x 1" |




# Ordering information

### Select model
- 442S cabinet lock

### Standard features
- 12/24 VDC (field selectable)
- Fail secure
- Black Lexan finish

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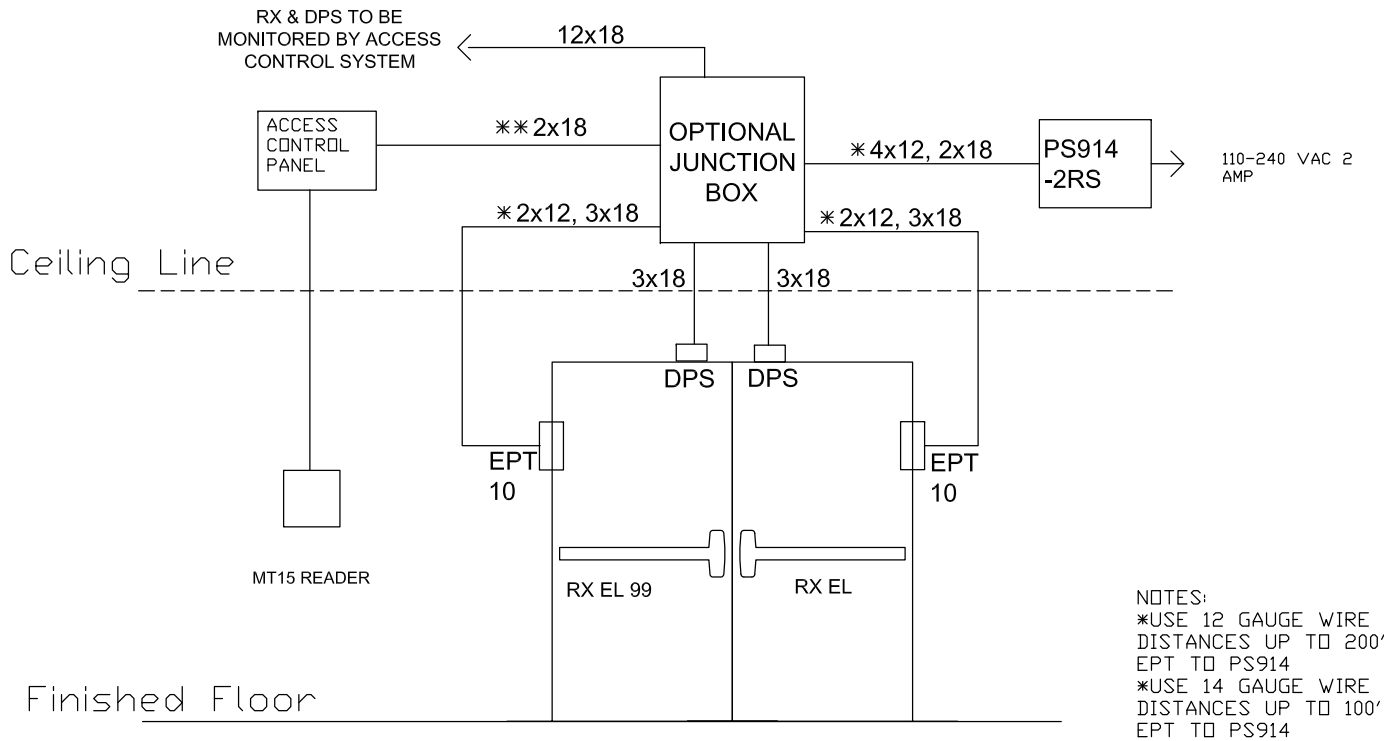
# Appendix

This section of the Electronic access control catalog includes a number of wiring and riser diagrams for a variety of electronic access control applications.

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
*USE 12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE 14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914
** ADDITIONAL WIRING REQUIRED. SEE MANUFACTURERS INSTALLTION INSTRUCTIONS.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 - PS914-2RS
2 RX-EL99
2 DOOR POSITION SWITCHES
1 MT15 READER & ACP
2 EPT10
1 OPTIONAL JUNCTION BOX

TYPE
DOUBLE DOORS

OPERATION:
DOOR NORMALLY CLOSED & LATCHED BY ACCESS CONTROL SYSTEM.

VALID CREDENTIAL RETRACTS ELECTRIC PANIC DEVICES TO ALLOW ENTRY.

FREE EGRESS AT ALL TIMES.

DOOR POSITION & RX SWITCHES TO BE MONITORED BY ACCESS CONTROL SYSTEM.

DATE DRAWN: 03-27-13
REVISION DATE: 04-15-14
DRAWN BY: B DOVE
APPROVED BY: MH

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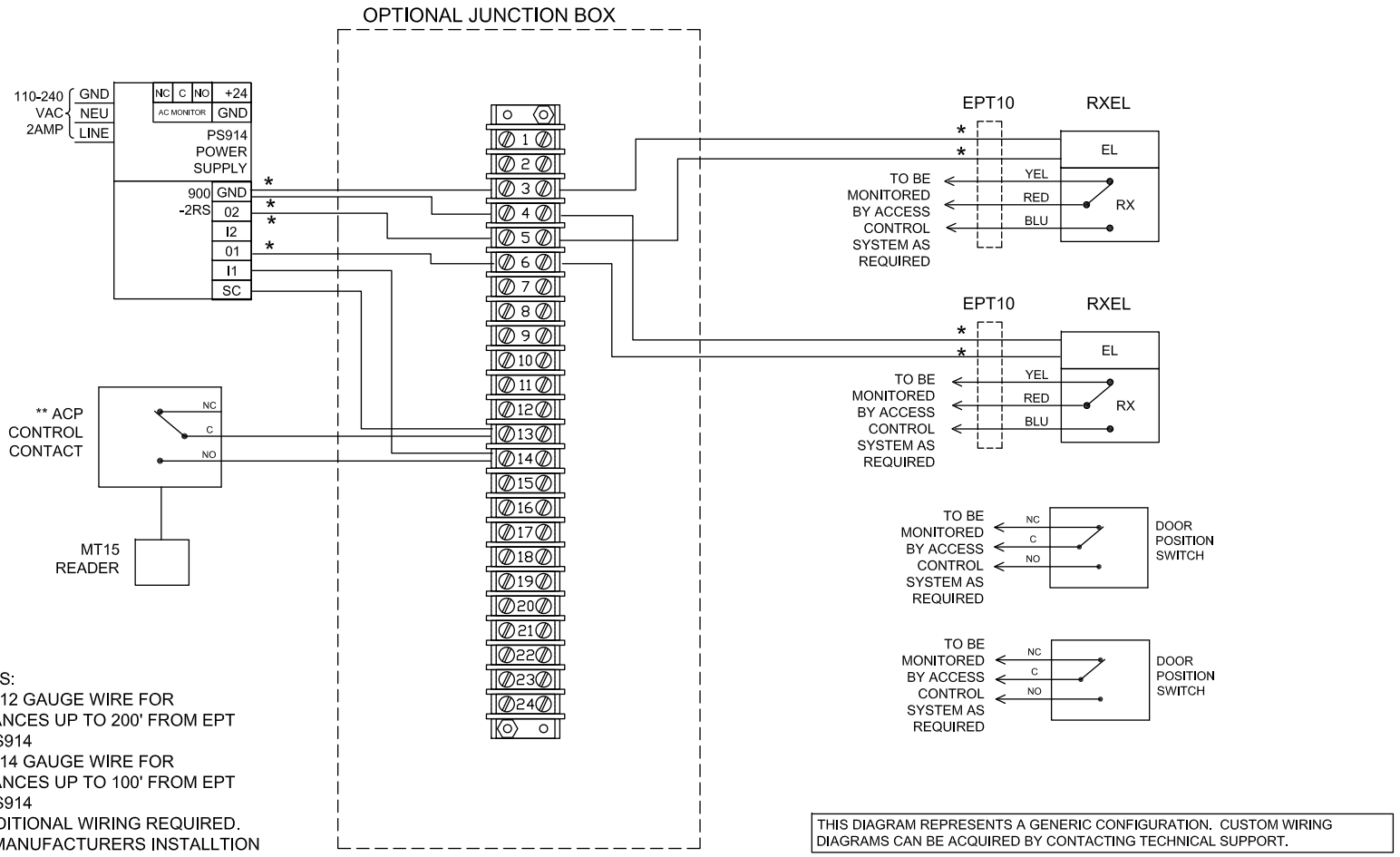
TITLE: PS914-2RS WITH 2 RXEL99 RIM, MT15, DPS

DRAWING TYPE: RISER
DWG NO: 105234
DRAWN/CHECKED BY: B DOVE
REV D




NOTES:
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*USE 14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914
** ADDITIONAL WIRING REQUIRED. SEE MANUFACTURERS INSTALLTION INSTRUCTIONS.

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NOTES:
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2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

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5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 - PS914-2RS
2 RX-EL99
2 DOOR POSITION SWITCHES
1 MT15 READER & ACP
2 EPT10
1 OPTIONAL JUNCTION BOX

TYPE
DOUBLE DOORS

OPERATION:
DOOR NORMALLY CLOSED & LATCHED BY ACCESS CONTROL SYSTEM.

VALID CREDENTIAL RETRACTS ELECTRIC PANIC DEVICES TO ALLOW ENTRY.

FREE EGRESS AT ALL TIMES.

DOOR POSITION & RX SWITCHES TO BE MONITORED BY ACCESS CONTROL SYSTEM.

DATE DRAWN: 03-27-13
REVISION DATE: 04-15-14
DRAWN BY: B DOVE
APPROVED BY: MH

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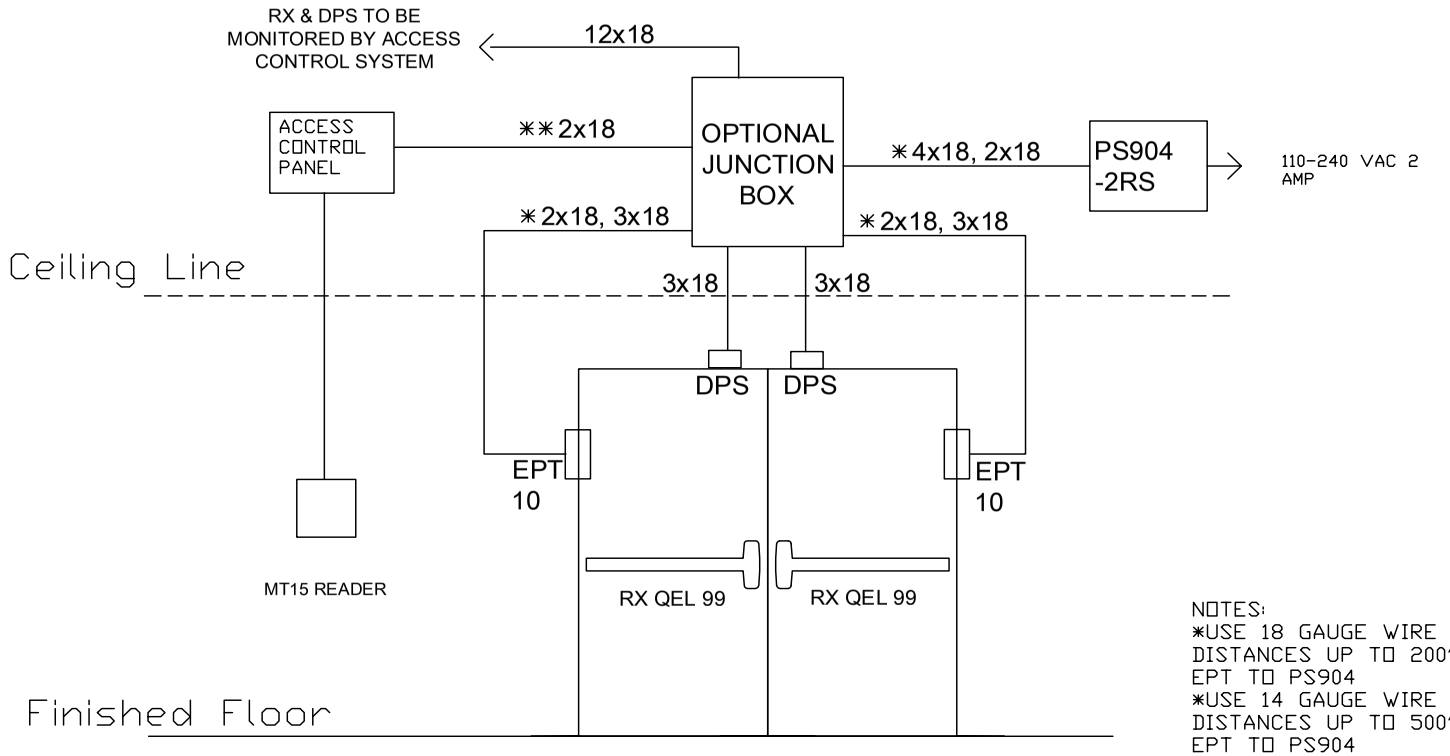
TITLE: PS914-2RS WITH 2 RXEL99 RIM, MT15, DPS

DRAWING TYPE: WIRING
DWG NO: 105234
REV: D
DRAWN/CHECKED BY: B DOVE

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
*USE 18 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS904
*USE 14 GAUGE WIRE FOR DISTANCES UP TO 500' FROM EPT TO PS904
** ADDITIONAL WIRING REQUIRED. SEE MANUFACTURERS INSTALLTION INSTRUCTIONS.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

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5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
- 1 - PS904-2RS
- 2 RX-QEL99
- 2 DOOR POSITION SWITCHES
- 1 MT15 READER & ACP
- 2 EPT10
- 1 OPTIONAL JUNCTION BOX

TYPE
DOUBLE DOORS

OPERATION:
DOOR NORMALLY CLOSED & LATCHED BY ACCESS CONTROL SYSTEM.

VALID CREDENTIAL RETRACTS QUIET ELECTRIC PANIC DEVICES TO ALLOW ENTRY.

FREE EGRESS AT ALL TIMES.

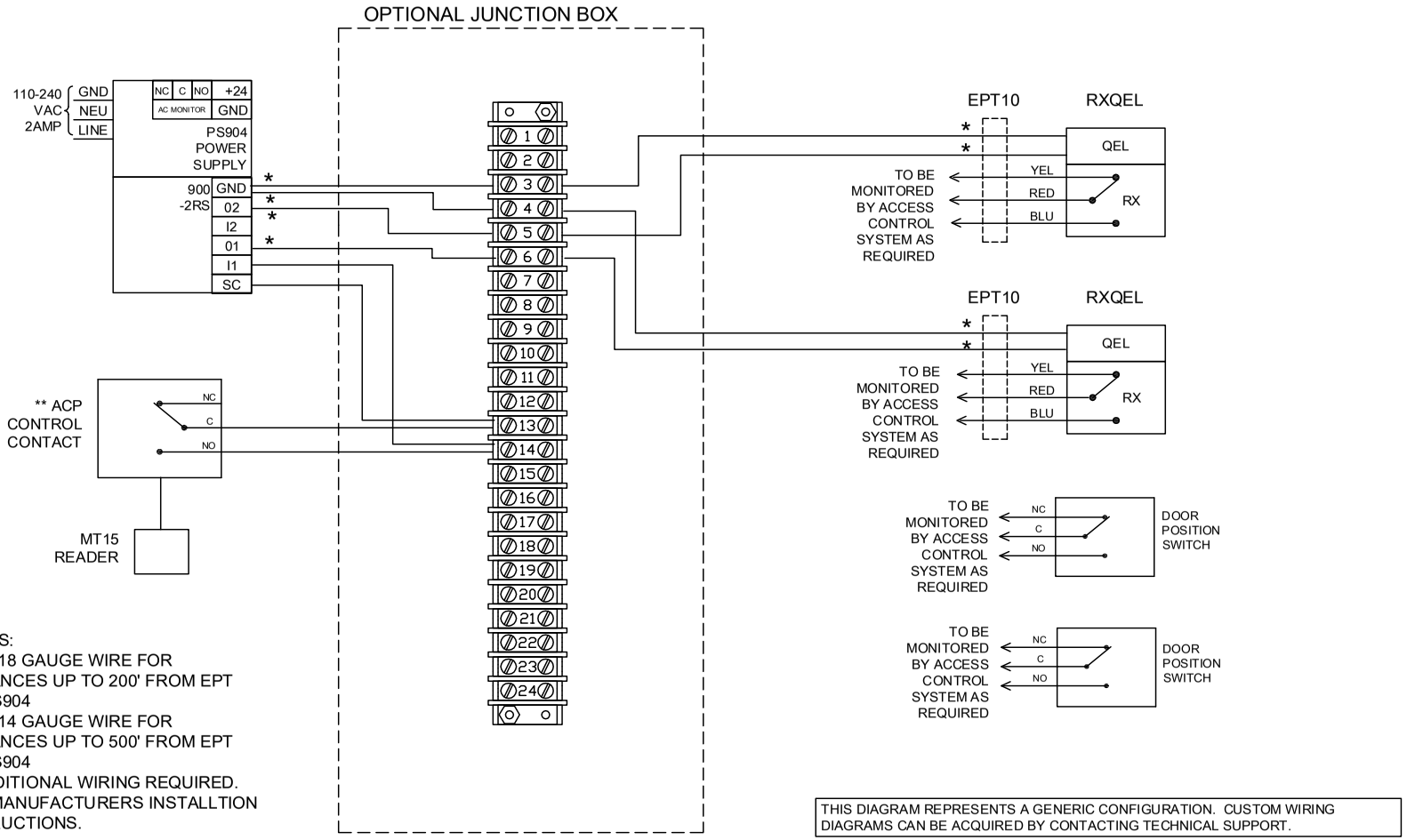
DOOR POSITION & RX SWITCHES TO BE MONITORED BY ACCESS CONTROL SYSTEM.

DATE DRAWN: 02-16-18
REVISION DATE: 02-16-18
DRAWN BY: B DOVE

ALLEGION™

TITLE: PS904-2RS WITH 2 RXQEL99 RIM, MT15, DPS

DRAWING TYPE: RISER
DWG NO: 112131R
DRAWN/CHECKED BY: B DOVE
REV: A




NOTES:
*USE 18 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS904
*USE 14 GAUGE WIRE FOR DISTANCES UP TO 500' FROM EPT TO PS904
** ADDITIONAL WIRING REQUIRED. SEE MANUFACTURERS INSTALLTION INSTRUCTIONS.

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

1 - PS904-2RS
2 RX-QEL99
2 DOOR POSITION SWITCHES
1 MT15 READER & ACP
2 EPT10
1 OPTIONAL JUNCTION BOX

TYPE

DOUBLE DOORS

OPERATION:
DOOR NORMALLY CLOSED & LATCHED BY ACCESS CONTROL SYSTEM.

VALID CREDENTIAL RETRACTS QUIET ELECTRIC PANIC DEVICES TO ALLOW ENTRY.

FREE EGRESS AT ALL TIMES.

DOOR POSITION & RX SWITCHES TO BE MONITORED BY ACCESS CONTROL SYSTEM.

DATE DRAWN: 02-16-18

REVISION DATE: 02-16-18

DRAWN BY: B DOVE

ALLEGION™

TITLE: PS904-2RS WITH 2 RXQEL99 RIM, MT15, DPS

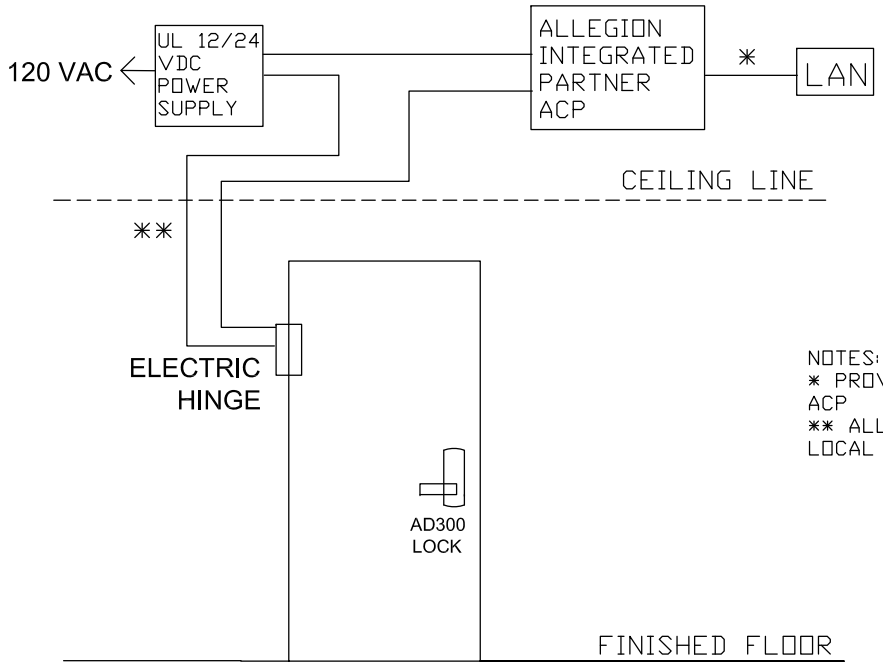
DRAWING TYPE: WIRING

DWG NO: 112131W

DRAWN/CHECKED BY: B DOVE

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
* PROVIDE NETWORK CONNECTION AS REQUIRED BY ACP
** ALL WIRING MUST COMPLY WITH NFPA70 (NEC) & LOCAL CODES & MEET ACP PROVIDER REQUIREMENTS.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 SCHLAGE AD-300 LOCK

1 ELECTRIC HINGE

1 UL LISTED 12/24 VDC POWER SUPPLY

1 ALLEGION AD LOCK INTEGRATED PARTNER ACP

TYPE
SINGLE DOOR
AD-300 RS485

OPERATION:

DOOR NORMALLY CLOSED & LOCKED

VALID CREDENTIAL UNLOCKS DOOR.

FREE GRESS AT ALL TIMES.

CONSULT ACCESS CONTROL SYSTEM PROVIDER FOR SPECIFIC READER CAPACITY AND POINT-TO-POINT WIRING PER ACP.

DATE DRAWN: 4-3-13
REVISION DATE: 5-9-2014

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ALLEGION™

TITLE:
SINGLE AD300 ALLEGION INTEGRATED PARTNER ACP RS485

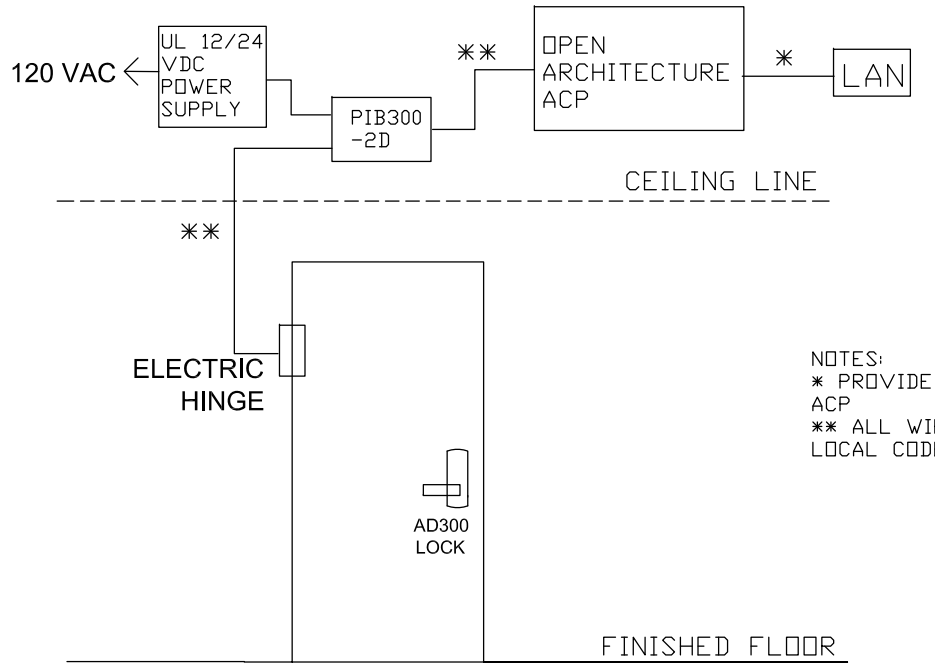
DRAWING TYPE:
RISER DIAGRAM

DWG NO: 105349

DRAWN/CHECKED BY: B DOVE

REV
C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
* PROVIDE NETWORK CONNECTION AS REQUIRED BY ACP
** ALL WIRING MUST COMPLY WITH NFPA70 (NEC) & LOCAL CODES & MEET ACP PROVIDER REQUIREMENTS.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 SCHLAGE AD-300 LOCK
1 ELECTRIC HINGE
1 PIB300-2D
1 UL LISTED 12/24 VDC POWER SUPPLY
1 OPEN ARCHITECTURE ACP

TYPE
SINGLE DOOR
AD-300 WIEGAND

OPERATION:
DOOR NORMALLY CLOSED & LOCKED
VALID CREDENTIAL UNLOCKS DOOR.
FREE GRESS AT ALL TIMES.
CONSULT ACCESS CONTROL SYSTEM PROVIDER FOR SPECIFIC READER CAPACITY AND POINT-TO-POINT WIRING PER ACP.

DATE DRAWN: 4-3-13
REVISION DATE: 5-9-2014

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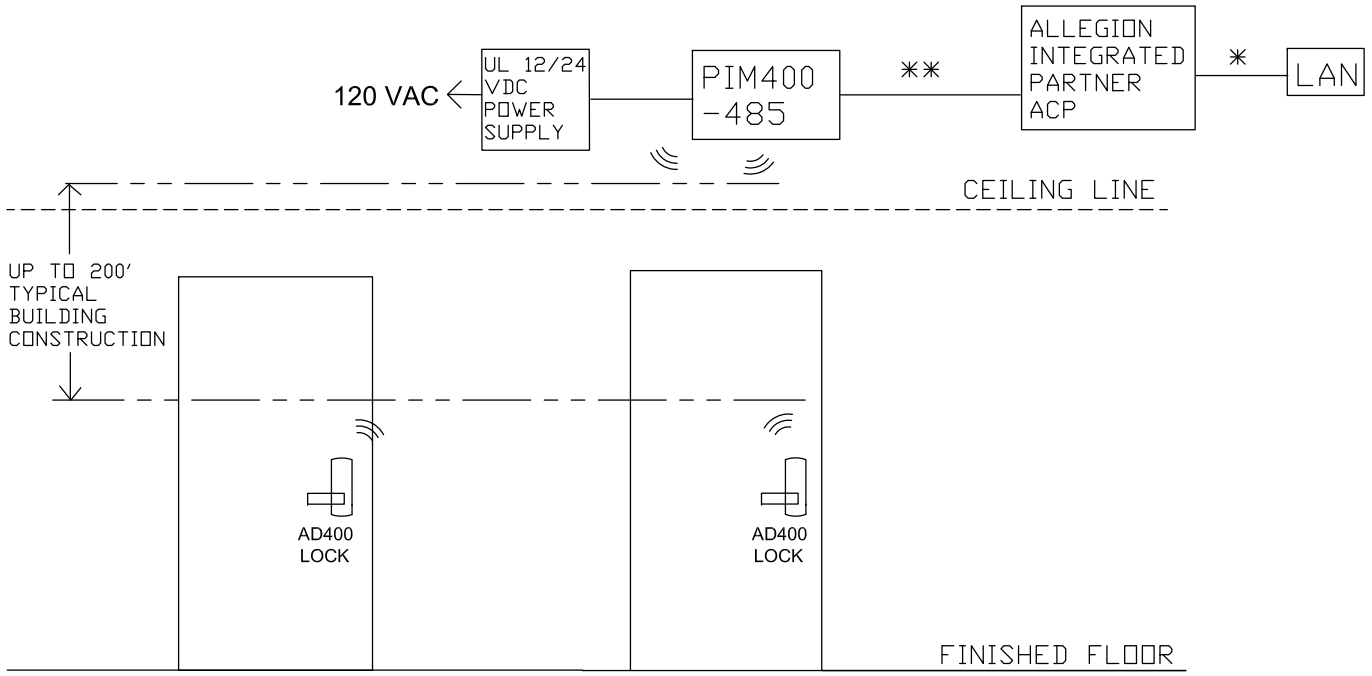
ALLEGION™

TITLE:
SINGLE AD300 OPEN ARCHITECTURE ACP WIEGAND

DRAWING TYPE: RISER DIAGRAM
DWG NO: 105348
DRAWN/CHECKED BY: B DOVE
REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
* PROVIDE NETWORK CONNECTION AS REQUIRED BY ACP
** ALL WIRING MUST COMPLY WITH NFPA70 (NEC) & LOCAL CODES & MEET ACP PROVIDER REQUIREMENTS.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
UP TO 16 SCHLAGE AD-400 DEVICES

1 UL LISTED 12/24 VDC POWER SUPPLY

1 PIM400-485

1 ALLEGION AD LOCK INTEGRATED PARTNER ACP

TYPE
AD-400 INTEGRATED RS485 ACP

OPERATION:

DOOR NORMALLY CLOSED & LOCKED
VALID CREDENTIAL UNLOCKS DOOR.
FREE EGRESS AT ALL TIMES.
EACH PIM400-485 CAN SUPPORT UP TO SIXTEEN AD-400 DEVICES.
CONSULT ACCESS CONTROL SYSTEM PROVIDER FOR SPECIFIC READER CAPACITY AND POINT-TO-POINT WIRING PER ACP.

DATE DRAWN: 4-3-13
REVISION DATE: 5-9-14

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ALLEGION™

TITLE: AD400 ALLEGION INTEGRATED PARTNER ACP RS485

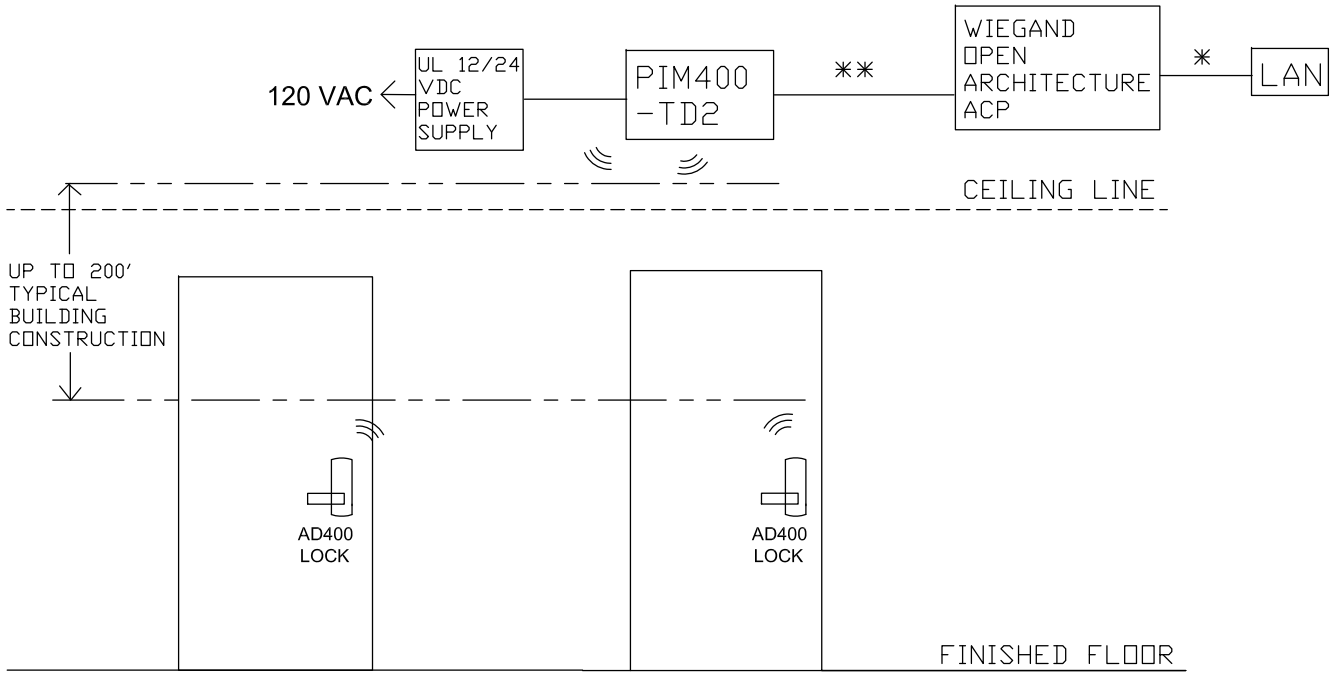
DRAWING TYPE: RISER DIAGRAM

DWG NO: 105351

DRAWN/CHECKED BY: B DOVE

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
* PROVIDE NETWORK CONNECTION AS REQUIRED BY ACP
** ALL WIRING MUST COMPLY WITH NFPA70 (NEC) & LOCAL CODES & MEET ACP PROVIDER REQUIREMENTS.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
UP TO 2 SCHLAGE AD-400 DEVICES

1 UL LISTED 12/24 VDC POWER SUPPLY

1 PIM400-TD2

1 OPEN ARCHITECTURE ACP

TYPE
AD-400 OPEN ARCHITECTURE

OPERATION:

DOOR NORMALLY CLOSED & LOCKED
VALID CREDENTIAL UNLOCKS DOOR.
FREE EGRESS AT ALL TIMES.
EACH PIM400-TD2 CAN SUPPORT UP TO 2 AD-400 DEVICES.
CONSULT ACCESS CONTROL SYSTEM PROVIDER FOR SPECIFIC READER CAPACITY AND POINT-TO-POINT WIRING PER ACP.

DATE DRAWN: 4-3-13
REVISION DATE: 5-9-14

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ALLEGION™

TITLE:
AD400 OPEN ARCHITECTURE
ACP RS485

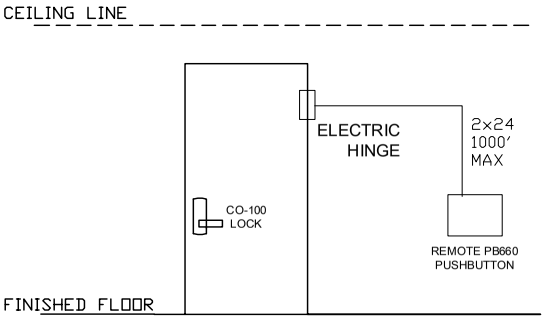
DRAWING TYPE:
RISER DIAGRAM

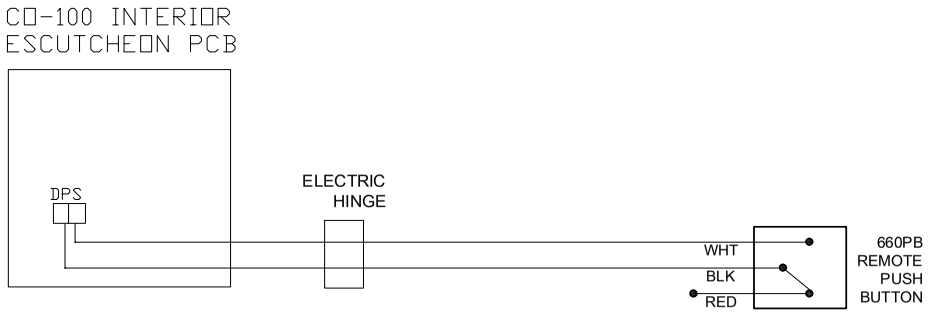
DWG NO: 105350

DRAWN/CHECKED BY: B DOVE

REV
C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

1 SCHLAGE CO-100 50 OFFICE FUNCTION STANDALONE LOCK MIN FW VERSION 2.6.2

1 ELECTRIC HINGE

1 PB660 REMOTE PUSHBUTTON

TYPE: CO100 WITH REMOTE PUSHBUTTON

OPERATION:

DOOR NORMALLY CLOSED & LOCKED

VALID PIN UNLOCKS DOOR. REMOTE PUSHBUTTON RELEASES DOOR FOR THE PRE-PROGRAMMED RELOCK DELAY.

FREE GRESS AT ALL TIMES.

DATE DRAWN: 02-13-18

REVISION DATE: 02-13-18

ALLEGION™

TITLE: CO100 WITH REMOTE PUSHBUTTON

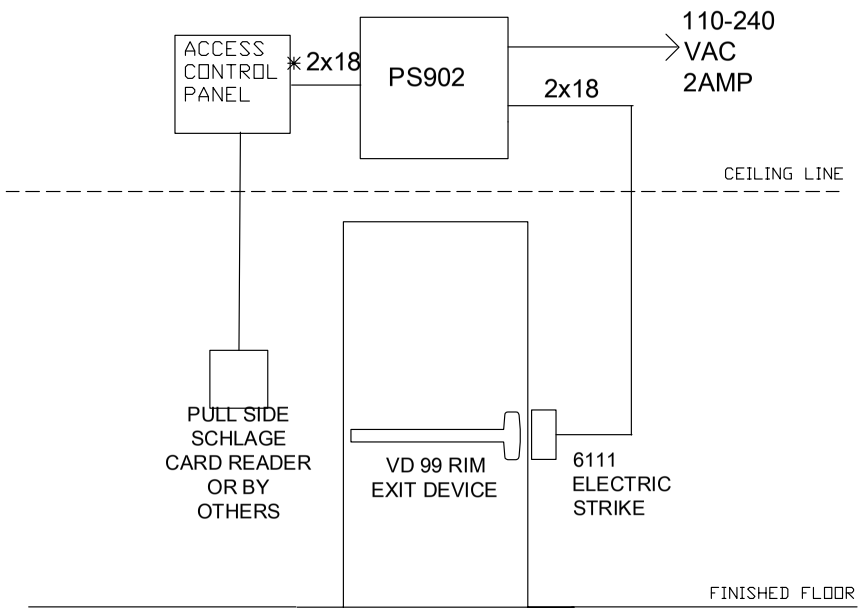
DRAWING TYPE: RISER DIAGRAM

DWG NO: 112121

DRAWN/CHECKED BY: B DOVE

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*ADDITIONAL WIRING IS REQUIRED. SEE MANUFACTURER INSTALLATION INSTRUCTION

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

6111 FSE 24VDC Electric Strike

VD 99 Rim Exit device

PS902 Power Supply

Schlage or Card Reader By Others with Access Control Panel

TYPE 6111 FSE ESTRIKE WITH SCHLAGE OR CR BO

OPERATION:

OPERATION:
PULL SIDE CARD READER TO UNLOCK ELECTRIC STRIKE TO ALLOW ENTRY.

6111 FSE ESTRIKE WILL LOCK ON POWER OUTAGE.

FREE EGRESS ALWAYS FROM PUSH SIDE OF 99 RIM EXIT DEVICE

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS902 ENCLOSURE.

DATE DRAWN: 3-13-13

REVISION DATE: 3-13-13

ALLEGION™

TITLE: FSE 6111 WITH PS902 AND SCHLAGE OR CARD READER BY OTHERS

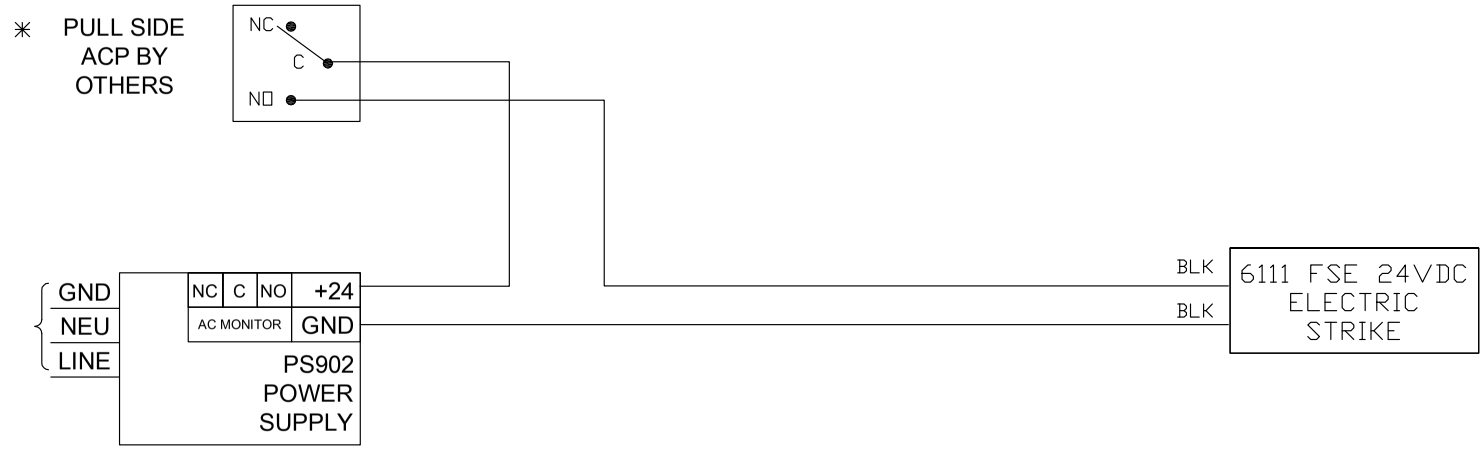
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109439

DRAWN/CHECKED BY: B DOVE/ B DYE

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
✳ADDITIONAL WIRING IS REQUIRED. SEE MANUFACTURER INSTALLATION INSTRUCTION

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ✳ CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

6111 FSE 24VDC Electric Strike

VD 99 Rim Exit device

PS902 Power Supply

Schlage or Card Reader By Others with Access Control Panel

TYPE
6111 FSE ESTRIKE WITH SCHLAGE OR CR BO

OPERATION:
PULL SIDE SCHLAGE OR CARD READER BY OTHERS TO UNLOCK ELECTRIC STRIKE TO ALLOW ENTRY.

6111 FSE ESTRIKE WILL LOCK ON POWER OUTAGE.

FREE EGRESS ALWAYS FROM PUSH SIDE OF 99 RIM EXIT DEVICE

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS902 ENCLOSURE.

DATE DRAWN: 3-13-13

REVISION DATE: 3-13-13

ALLEGION™

TITLE:
FSE 6111 WITH PS902 AND SCHLAGE OR CARD READER BY OTHERS

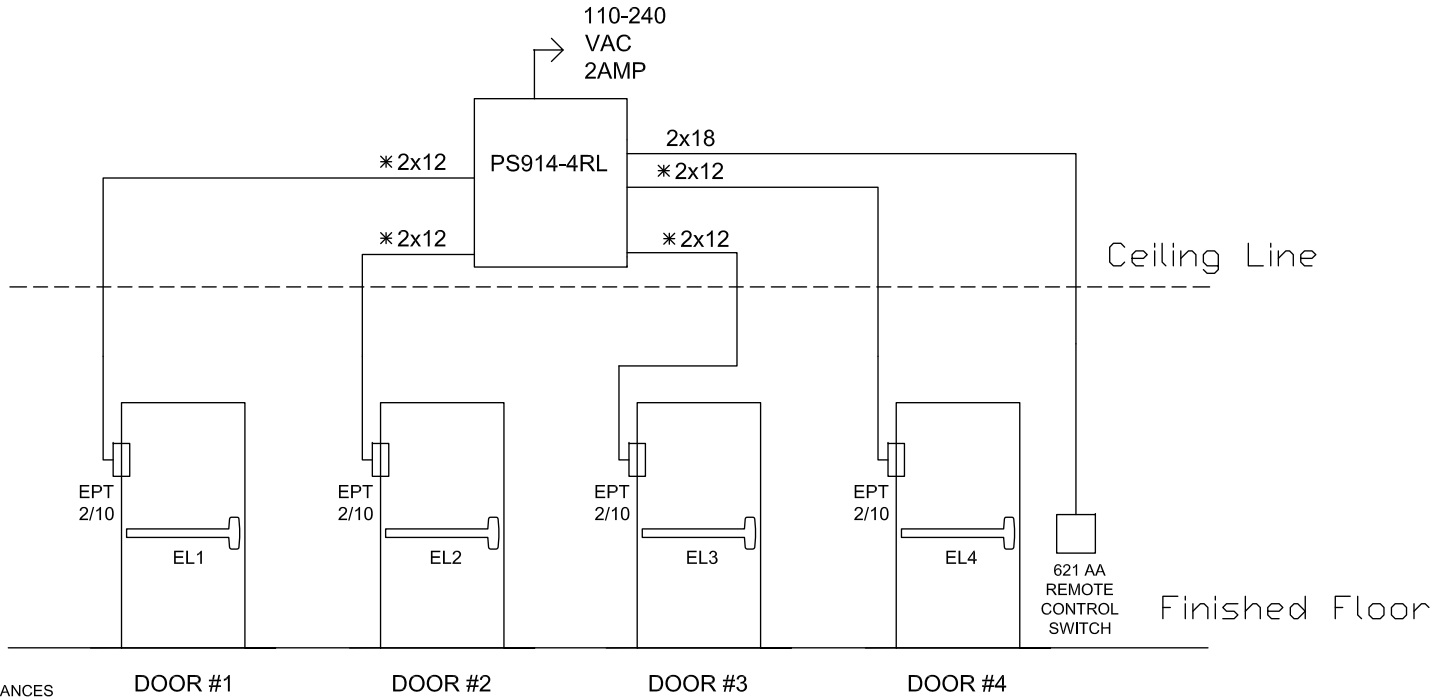
DRAWING TYPE:
WIRING DIAGRAM

DWG NO: 109439

DRAWN/CHECKED BY:
B DOVE/ B DYE

REV
C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

4 VON DUPRIN OR FALCON EL PANIC DEVICES

1 PS914-4RL POWER SUPPLY

4 EPT POWER TRANSFERS

621 AA REMOTE CONTROL PUSH BUTTON

TYPE
REMOTE 621AA PB WITH 4 ALLEGION EL DEVICES

OPERATION:
REMOTE CONTROL 621 AA PB TO SIGNAL ALL FOUR ELECTRIC PANIC BARS TO RETRACT FOR ENTRY.

THIS CONFIGURATION REPRESENTS A NON FIRE RATED OPENING.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 3-20-13
REVISION DATE: 3-14-14

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ALLEGION™

TITLE:
REMOTE 621AA PB WITH 4 ALLEGION EL PANICS

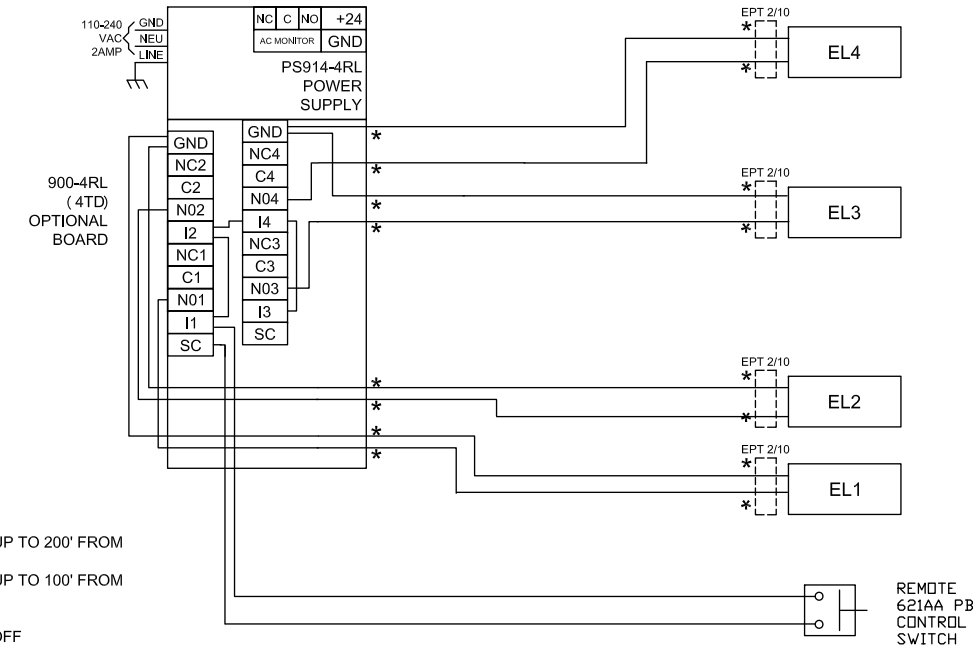
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109440

DRAWN/CHECKED BY: B DOVE/ B DYE

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

900-4RL CARD SW2 SET SWITCH 1 AND 2 OFF
900-4RL CARD SW1 SET AS REQUIRED FOR TIME DELAYS
- SEE INSTRUCTION SHEET FOR DETAILS

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

4 VON DUPRIN OR FALCON EL PANIC DEVICES

1 PS914-4RL POWER SUPPLY

4 EPT POWER TRANSFERS

621 AA REMOTE CONTROL SWITCH

TYPE
REMOTE 621AA PB WITH 4 ALLEGION EL DEVICES

OPERATION:
REMOTE CONTROL 621AA PB TO SIGNAL ALL FOUR ELECTRIC PANIC BARS TO RETRACT FOR ENTRY.

THIS CONFIGURATION REPRESENTS A NON FIRE RATED OPENING.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 3-20-13
REVISION DATE: 3-14-14

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ALLEGION™

TITLE:
REMOTE 621AA PB WITH 4 ALLEGION EL PANICS

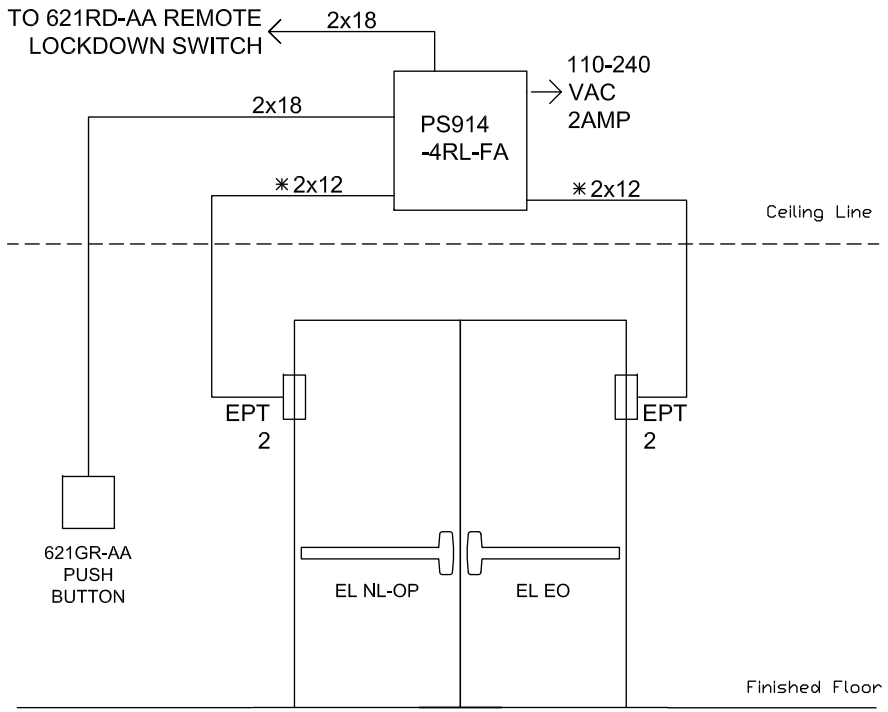
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109440

DRAWN/CHECKED BY: B DOVE/ B DYE

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

2 VONDUPRIN OR FALCON EL PANIC DEVICES

1 621GR-AA PUSH BUTTON

1 621RD-AA PUSH BUTTON

1 PS914-4RL-FA POWER SUPPLY

TYPE
EMERGENCY RELEASE OF ALLEGION EL PANIC DEVICES

OPERATION:

EL LATCHES HELD SIGNALED TO RETRACT BY 621GR-AA PUSH BUTTON.

IN THE EVENT OF AN EMERGENCY PRESSING 621RD REMOTE PUSH BUTTON WILL CAUSE EL LATCHES TO EXTEND SECURING DOOR FROM PULL SIDE.

THIS EXAMPLE IS FOR A NON FIRE RATED APPLICATION.

IN THIS EXAMPLE ALL CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 3-21-13

REVISION DATE: 3-14-14

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ALLEGION™

TITLE: PS914-4RL-FA EL PAIR EMERGENCY RELEASE

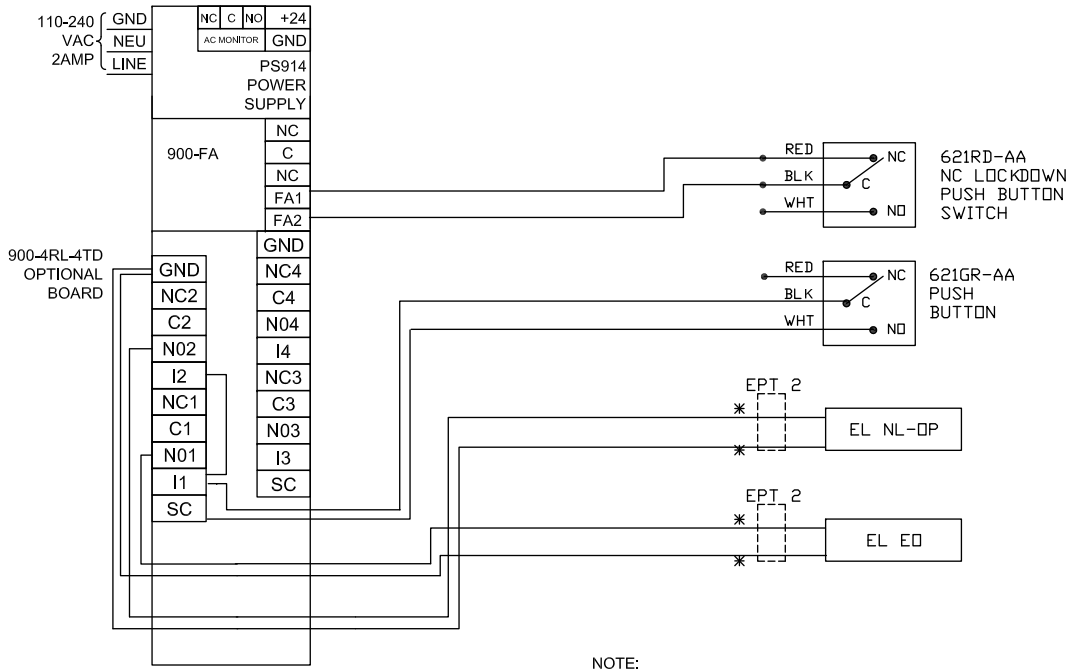
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109444

DRAWN/CHECKED BY: BRENDA DOVE

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

2 VONDUPRIN OR FALCON EL PANIC DEVICES

1 621GR-AA PUSH BUTTON

1 621RD-AA PUSH BUTTON

1 PS914-4RL-FA POWER SUPPLY

TYPE
EMERGENCY RELEASE OF ALLEGION EL PANIC DEVICES

OPERATION:

EL LATCHES HELD SIGNALED TO RETRACT BY 621GR-AA PUSH BUTTON.

IN THE EVENT OF AN EMERGENCY PRESSING 621RD REMOTE PUSH BUTTON WILL CAUSE EL LATCHES TO EXTEND SECURING DOOR FROM PULL SIDE.

THIS EXAMPLE IS FOR A NON FIRE RATED APPLICATION.

IN THIS EXAMPLE ALL CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 3-21-13

REVISION DATE: 3-14-14

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ALLEGION™

TITLE: PS914-4RL-FA EL PAIR EMERGENCY RELEASE

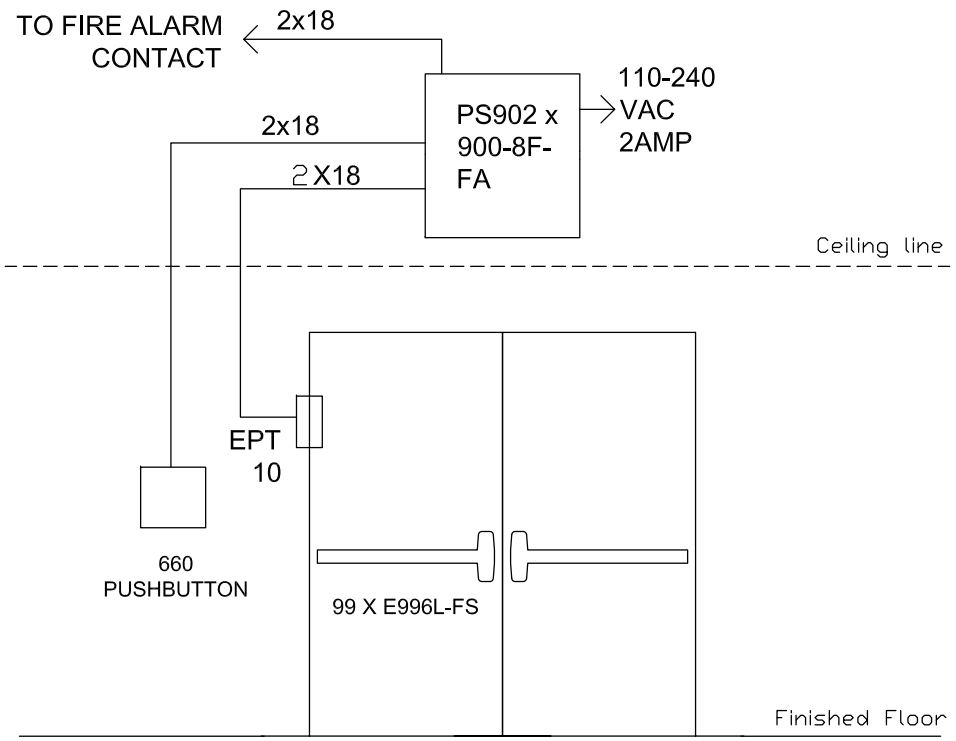
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109444

DRAWN/CHECKED BY: B DOVE/

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

1 VD 99 x E996L FS 24VDC

1 PS902-8F-FA Power Supply

1 660 Pushbutton

Fire Alarm Contact by Others

TYPE

FS E996L WITH 660 PB AND FIRE ALARM RELEASE

OPERATION:

660 PUSHBUTTON TO RELEASE FAIL SAFE E996L FOR AUTHORIZED ENTRY.

FIRE ALARM CONTACT TO RELEASE THE ELECTRIC TRIM TO ALLOW ENTRY.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

DATE DRAWN: 3-21-13

REVISION DATE: 3-21-13

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ALLEGION™

TITLE:

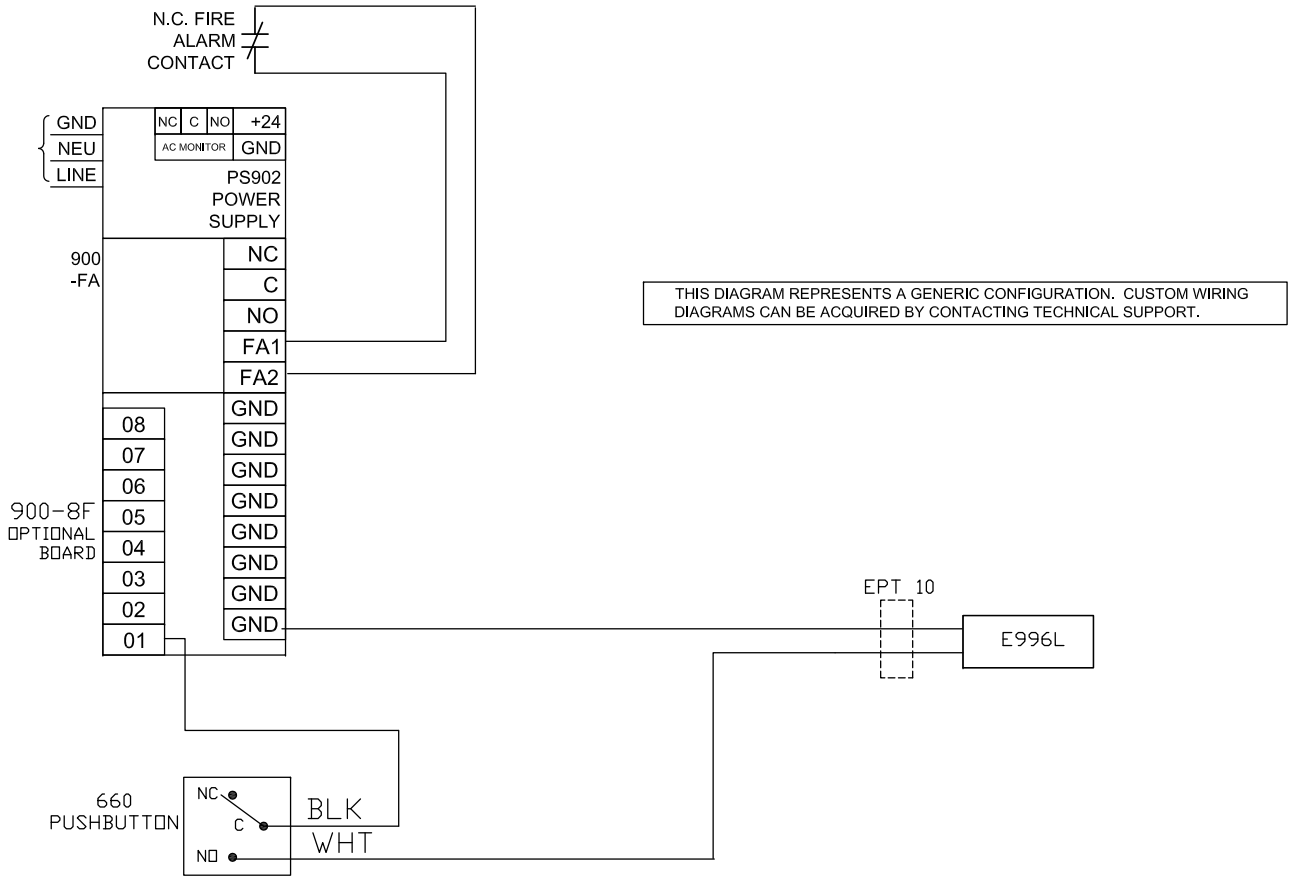
FS E996L WITH PS902-8F-FA

DRAWING TYPE: RISER DIAGRAM

DWG NO: 109445

DRAWN/CHECKED BY: B DOVE

REV A




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

1 VD 99 x E996L FS 24VDC

1 PS902-8F-FA Power Supply

1 660 Pushbutton

Fire Alarm Contact by Others

TYPE

FS E996L WITH 660 PB AND FIRE ALARM RELEASE

OPERATION:

660 PUSHBUTTON TO RELEASE FAIL SAFE E996L FOR AUTHORIZED ENTRY.

FIRE ALARM CONTACT TO RELEASE THE ELECTRIC TRIM TO ALLOW ENTRY.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

DATE DRAWN: 3-21-13

REVISION DATE: 3-21-13

copyright 2013

ALLEGION™

TITLE: FS E996L WITH PS902-8F-FA

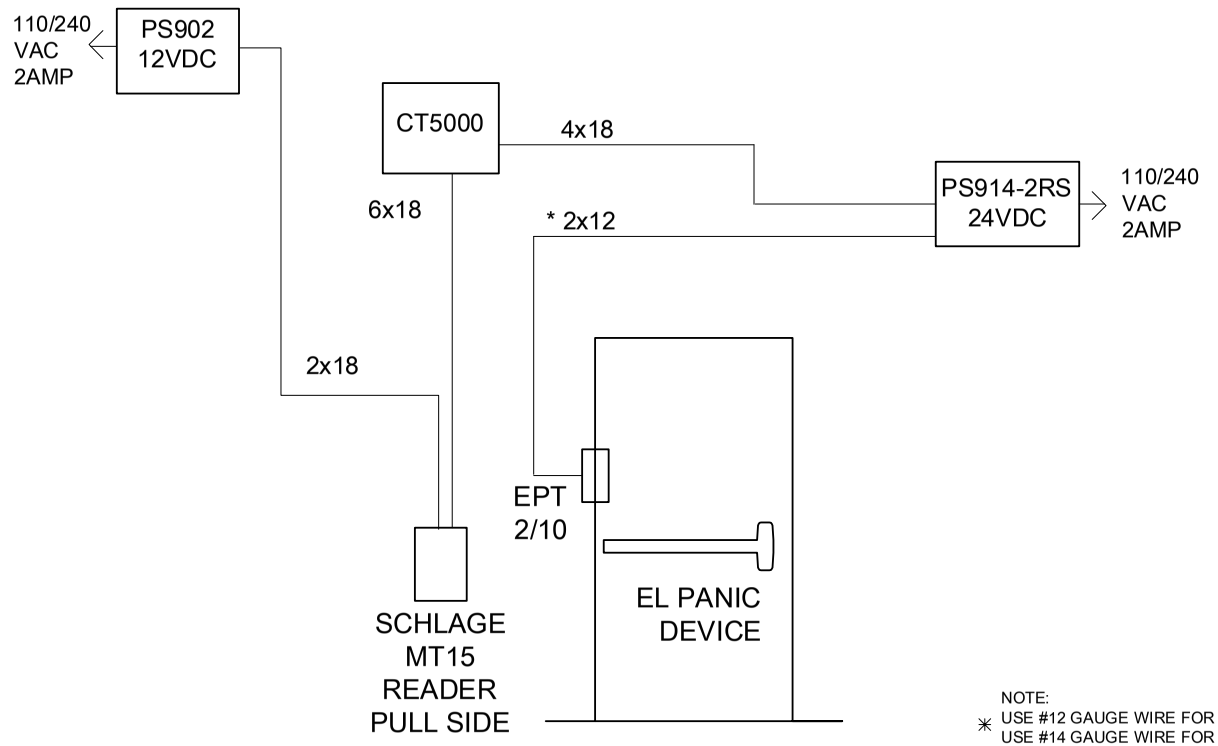
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109445

DRAWN/CHECKED BY: B DOVE

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
* USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914.
USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 1 CT5000
- 1 MT15 SCHLAGE READER
- 1 VD OR FALCON EL PANIC
- 1 EPT2/10
- 1 PS902
- 1 PS914-2RS

TYPE ACCESS CONTROL WITH EL PANIC

OPERATION:
SCHLAGE MT15 READER TO RETRACT THE ELECTRIC LATCH ON PANIC BAR TO ALLOW ENTRY.

FREE EGRESS ALWAYS PERMITTED

THIS IS NOT A FIRE RATED APPLICATION

DATE DRAWN: 3-26-13

REVISION DATE: 07-03-17

ALLEGION™

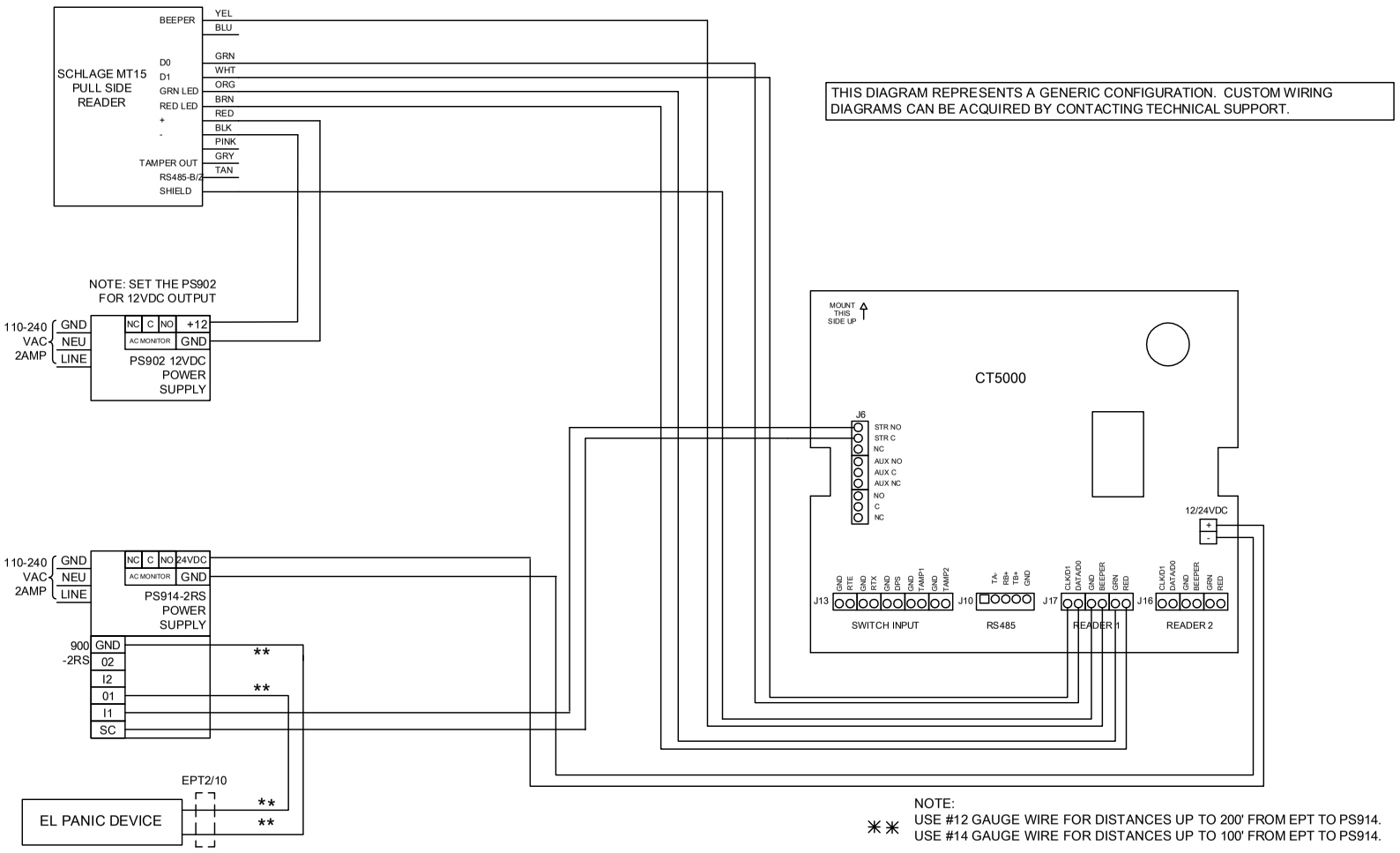
TITLE: CT5000 WITH EL AND PS914-2RS AND PS902

DRAWING TYPE: RISER DIAGRAM

DWG NO: 109499

DRAWN/CHECKED BY: BRENDA DOVE

REV B




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

1 CT5000
1 MT15 SCHLAGE READER
1 VD OR FALCON EL PANIC DEVICE
1 EPT2/10
1 PS902
1 PS914-2RS

TYPE
ACCESS CONTROL WITH EL PANIC

OPERATION:

SCHLAGE MT15 READER TO RETRACT THE ELECTRIC LATCH ON PANIC BAR TO ALLOW ENTRY.

FREE EGRESS ALWAYS PERMITTED.

THIS IS NOT A FIRE RATED APPLICATION

DATE DRAWN: 3-26-13

REVISION DATE: 07-03-17

ALLEGION™

TITLE: CT5000 WITH EL AND PS914-2RS AND PS902

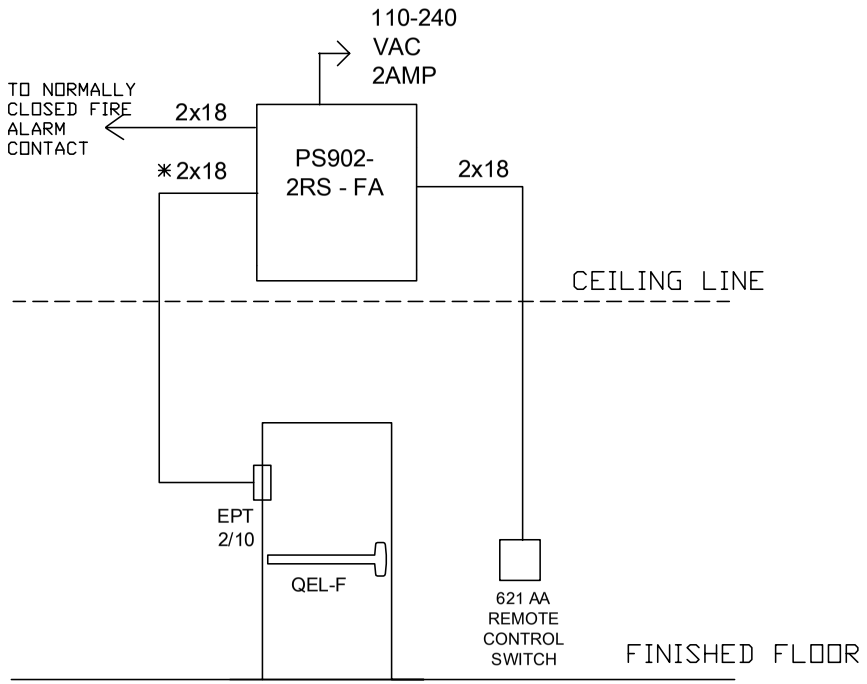
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109499

DRAWN/CHECKED BY: B DOVE

REV B

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
* USE #18 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS902
* USE #14 GAUGE WIRE FOR DISTANCES UP TO 500' FROM EPT TO PS902

SET PS902 TO 24VDC

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 1 VON DUPRIN RATED QEL PANIC DEVICES
- 1 PS902-2RS POWER SUPPLY
- 1 EPT POWER TRANSFERS
- 1 621 AA REMOTE CONTROL PUSH BUTTON
- 1 FIRE ALARM CONTACT

TYPE REMOTE 621AA PB WITH SINGLE FIRE RATED ALLEGION QEL DEVICES

OPERATION:
REMOTE CONTROL 621 AA PB TO SIGNAL SINGLE QEL ELECTRIC PANIC BAR TO RETRACT FOR ENTRY.

RELEASING 621 AA PUSH BUTTON OR FIRE ALARM TO CAUSE QEL LATCHES TO EXTEND.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

DATE DRAWN: 02-16-18
REVISION DATE: 02-16-18

ALLEGION™

TITLE:
REMOTE 621AA PB WITH SINGLE FIRE RATED ALLEGION QEL PANICS

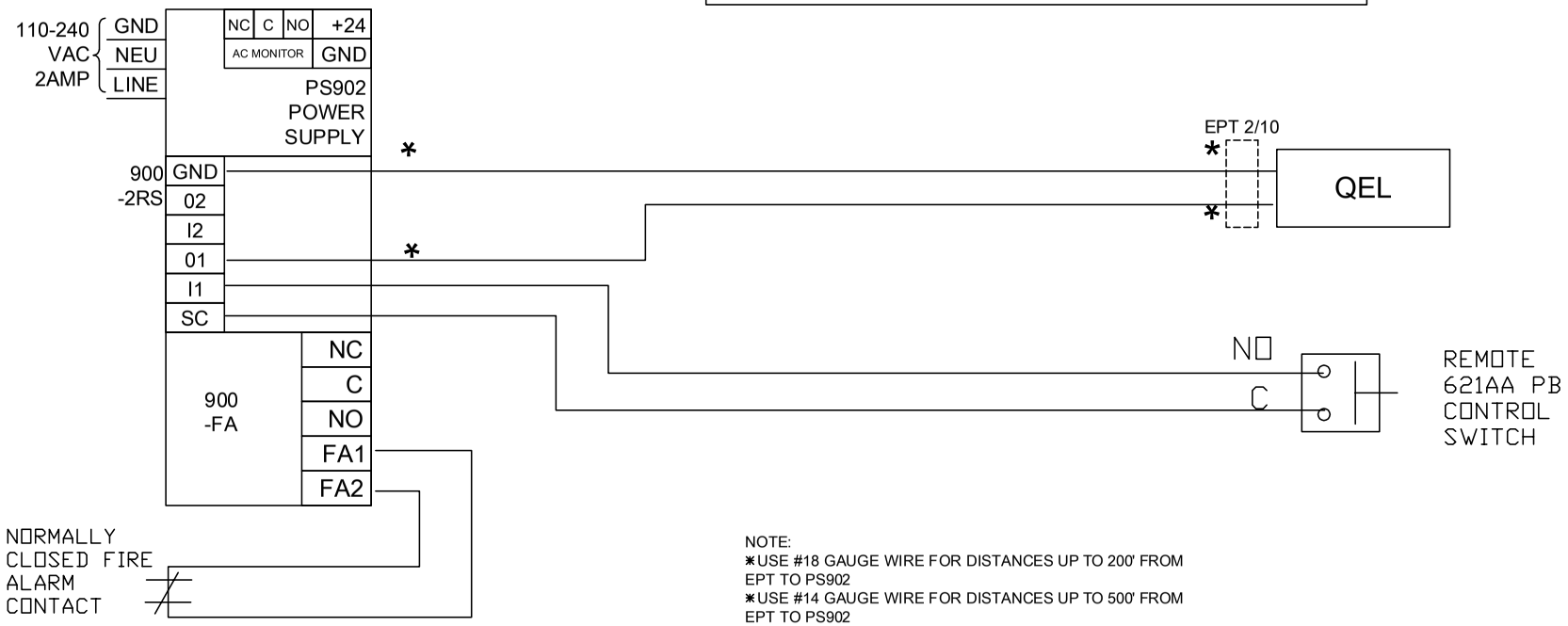
DRAWING TYPE: RISER DIAGRAM

DWG NO: 112133R

DRAWN/CHECKED BY: B DOVE

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #18 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS902
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 500' FROM EPT TO PS902

SET PS902 TO 24VDC

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:
1 VON DUPRIN RATED QEL PANIC DEVICES
1 PS902-2RS POWER SUPPLY
1 EPT POWER TRANSFERS
1 621 AA REMOTE CONTROL PUSH BUTTON
1 FIRE ALARM CONTACT

TYPE REMOTE 621AA PB WITH SINGLE FIRE RATED ALLEGION QEL DEVICES

OPERATION:
REMOTE CONTROL 621 AA PB TO SIGNAL SINGLE QEL ELECTRIC PANIC BAR TO RETRACT FOR ENTRY.

RELEASING 621 AA PUSH BUTTON OR FIRE ALARM TO CAUSE QEL LATCHES TO EXTEND.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

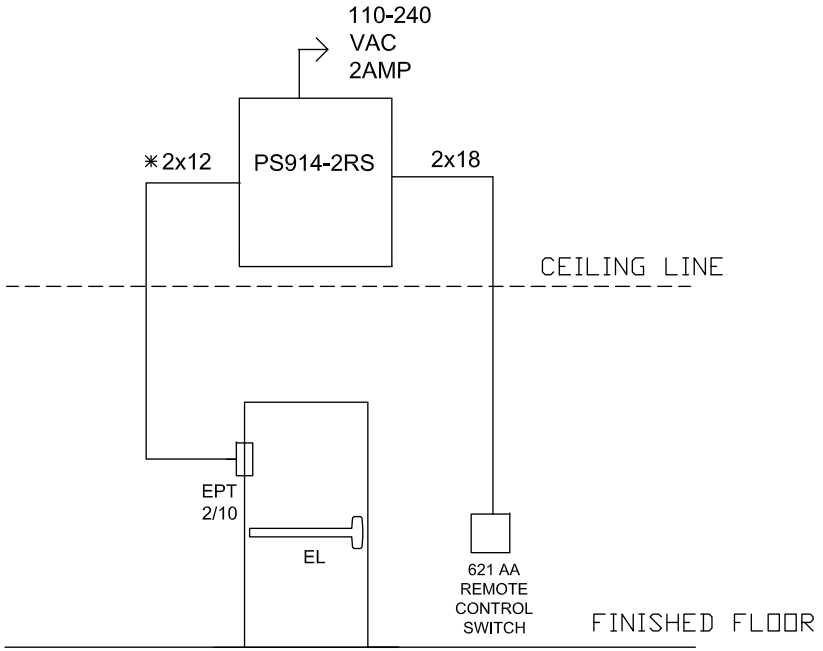
DATE DRAWN: 02-16-18
REVISION DATE: 02-16-18

ALLEGION™

TITLE: REMOTE 621AA PB WITH SINGLE FIRE RATED ALLEGION QEL PANICS

DRAWING TYPE: WIRING DIAGRAM
DWG NO: 112133W
DRAWN/CHECKED BY: B DOVE
REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

SETP PS914 TO 24VDC

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

1 VON DUPRIN OR FALCON EL PANIC DEVICES

1 PS914-2RS POWER SUPPLY

1 EPT POWER TRANSFERS

1 621 AA REMOTE CONTROL PUSH BUTTON

TYPE

REMOTE 621AA PB WITH SINGLE ALLEGION EL DEVICES

OPERATION:
REMOTE CONTROL 621 AA PB TO SIGNAL SINGLE EL ELECTRIC PANIC BAR TO RETRACT FOR ENTRY.

THIS CONFIGURATION REPRESENTS A NON FIRE RATED OPENING.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 5-3-13

REVISION DATE: 3-14-14

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ALLEGION™

TITLE: REMOTE 621AA PB WITH SINGLE ALLEGION EL PANICS

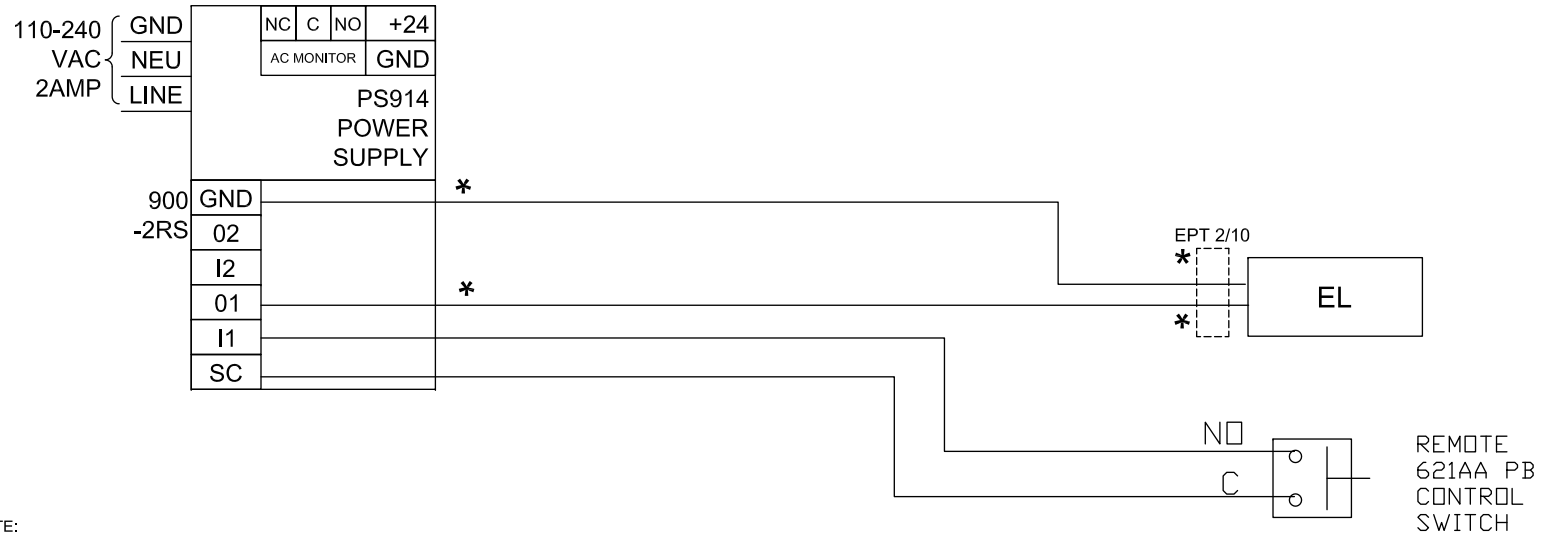
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109550

DRAWN/CHECKED BY: B DOVE

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

SET PS914 TO 24VDC

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

1 VON DUPRIN OR FALCON EL PANIC DEVICES

1 PS914-2RS POWER SUPPLY

1 EPT POWER TRANSFERS

621 AA REMOTE CONTROL SWITCH

TYPE

REMOTE 621AA PB WITH SINGLE ALLEGION EL DEVICES

OPERATION:
REMOTE CONTROL 621AA PB TO SIGNAL SINGLE ELECTRIC PANIC BARS TO RETRACT FOR ENTRY.

THIS CONFIGURATION REPRESENTS A NON FIRE RATED OPENING.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 5-3-13

REVISION DATE: 3-14-14

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ALLEGION™

TITLE: REMOTE 621AA PB WITH SINGLE ALLEGION EL PANICS

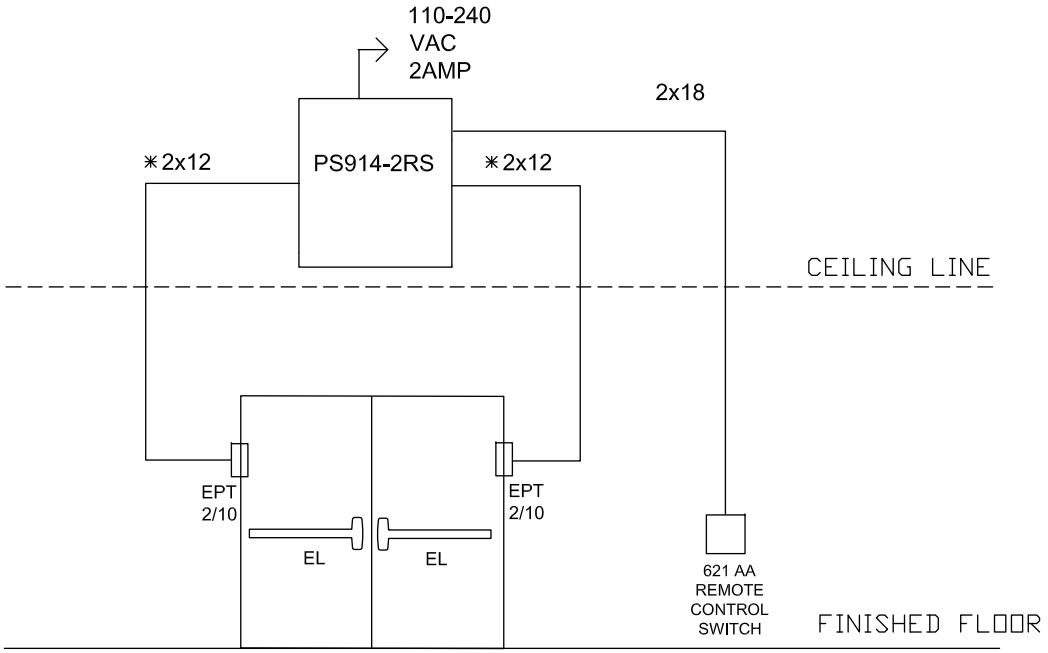
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109550

DRAWN/CHECKED BY: B DOVE

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

SET PS914 TO 24VDC

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

2 VON DUPRIN OR FALCON EL PANIC DEVICES

1 PS914-2RS POWER SUPPLY

2 EPT POWER TRANSFERS

1 621 AA REMOTE CONTROL PUSH BUTTON

TYPE

REMOTE 621AA PB WITH PAIR ALLEGION EL DEVICES

OPERATION:
REMOTE CONTROL 621 AA PB TO SIGNAL PAIR EL ELECTRIC PANIC BAR TO RETRACT FOR ENTRY.

THIS CONFIGURATION REPRESENTS A NON FIRE RATED OPENING.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 5-3-13

REVISION DATE: 3-14-14

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ALLEGION™

TITLE: REMOTE 621AA PB WITH PAIR ALLEGION EL PANICS

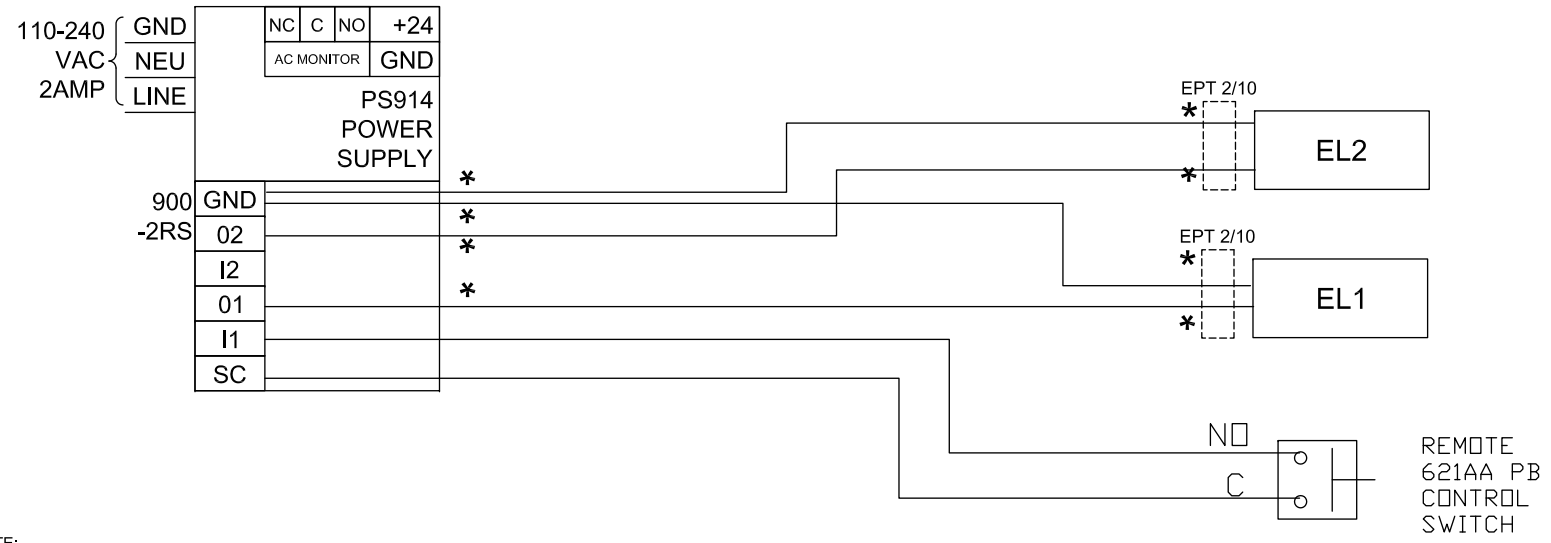
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109551

DRAWN/CHECKED BY: B DOVE

REV. C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

SET PS914 TO 24VDC

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:
2 VON DUPRIN OR FALCON FIRE RATED EL PANIC DEVICES

1 PS914-2RS POWER SUPPLY

2 EPT POWER TRANSFERS

621 AA REMOTE CONTROL SWITCH

TYPE REMOTE 621AA PB WITH PAIR NON FIRE RATED ALLEGION EL DEVICES

OPERATION:
REMOTE CONTROL 621AA PB TO SIGNAL PAIR ELECTRIC PANIC BARS TO RETRACT FOR ENTRY.

THIS EXAMPLE IS A NON FIRE RATED APPLICATION.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 5-3-13

REVISION DATE: 3-14-14

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ALLEGION™

TITLE: REMOTE 621AA PB WITH PAIR NON FIRE RATED ALLEGION EL PANICS

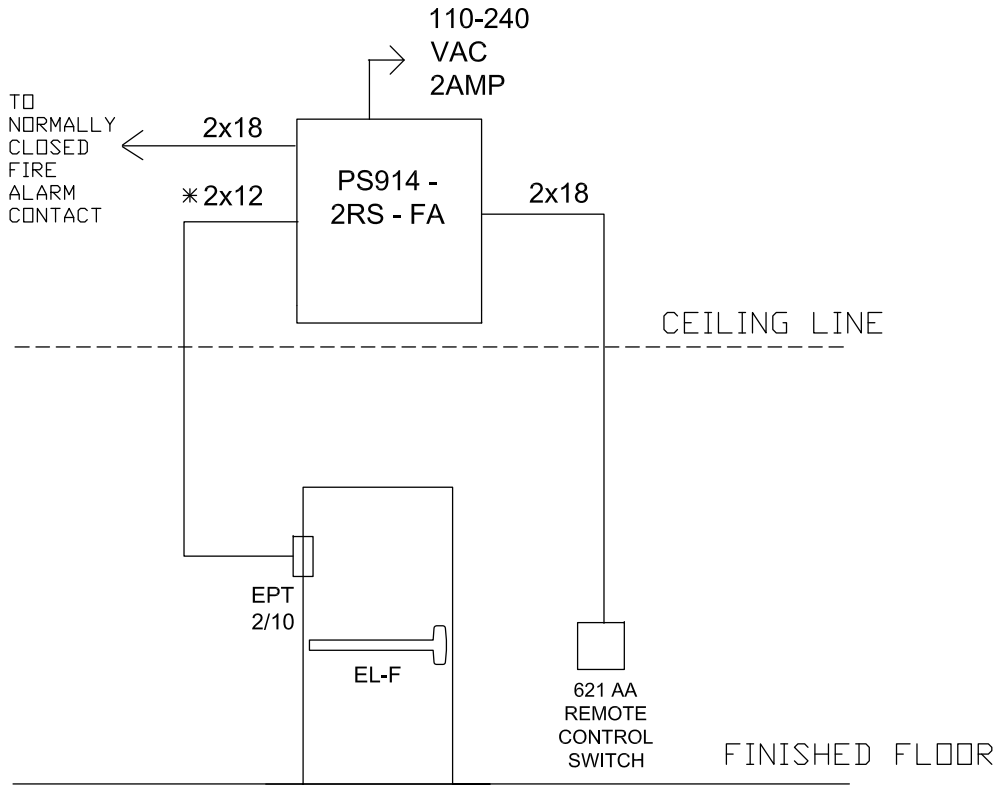
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109551

DRAWN/CHECKED BY: B DOVE

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

SETP PS914 TO 24VDC

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 VON DUPRIN OR FALCON FIRE RATED EL PANIC DEVICES

1 PS914-2RS POWER SUPPLY

1 EPT POWER TRANSFERS

1 621 AA REMOTE CONTROL PUSH BUTTON

1 FIRE ALARM CONTACT

TYPE REMOTE 621AA PB WITH SINGLE FIRE RATED EL DEVICES

OPERATION:
REMOTE CONTROL 621 AA PB TO SIGNAL SINGLE EL ELECTRIC PANIC BAR TO RETRACT FOR ENTRY.

RELEASING 621 AA PUSH BUTTON OR FIRE ALARM TO CAUSE EL LATCHES TO EXTEND.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 5-3-13 | REVISION DATE: 5-3-13

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ALLEGION™

TITLE: REMOTE 621AA PB WITH SINGLE FIRE RATED EL PANICS

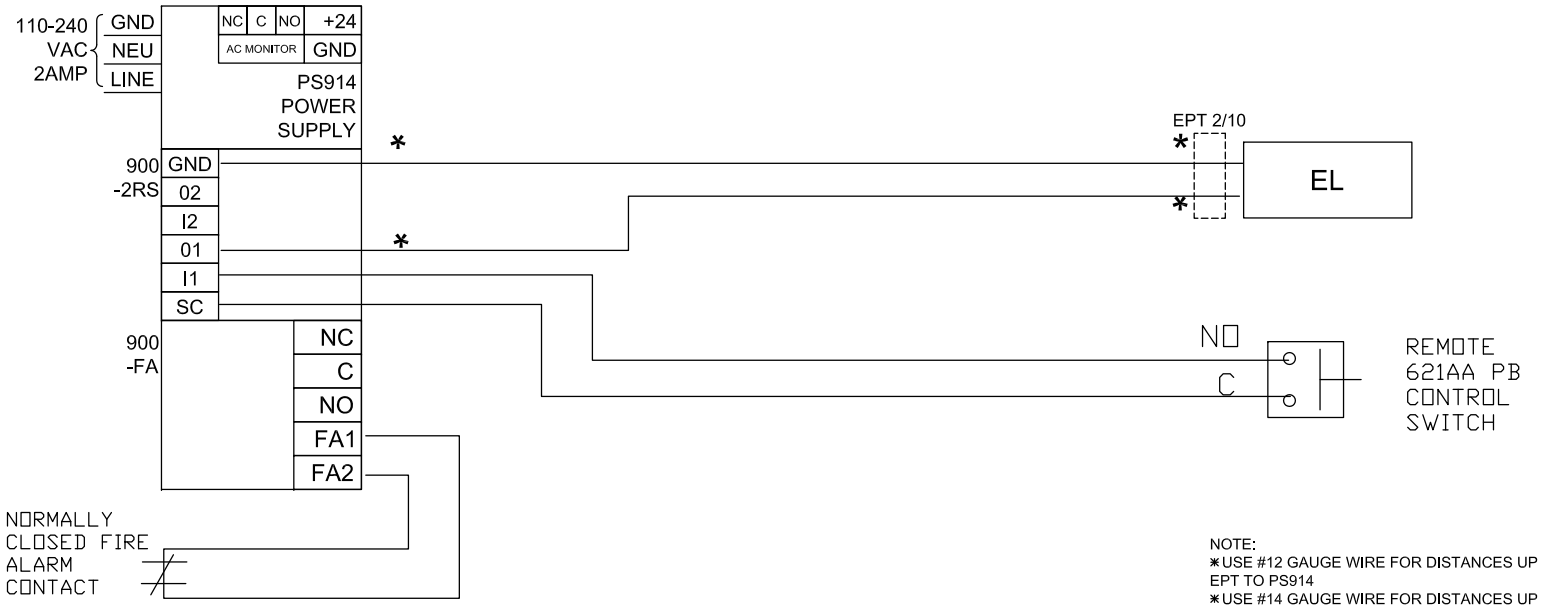
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109552

DRAWN/CHECKED BY: B DOVE

REV A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
* USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
* USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

SET PS914 TO 24VDC

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 VON DUPRIN OR FALCON FIRE RATED EL PANIC DEVICES

1 PS914-2RS POWER SUPPLY

1 EPT POWER TRANSFERS

621 AA REMOTE CONTROL SWITCH

1 FIRE ALARM CONTACT

TYPE REMOTE 621AA PB WITH SINGLE FIRE RATED EL DEVICES

OPERATION:
REMOTE CONTROL 621AA PB TO SIGNAL SINGLE ELECTRIC PANIC BARS TO RETRACT FOR ENTRY.

RELEASING 621AA PUSH BUTTON OR FIRE ALARM TO CAUSE EL LATCHES TO EXTEND.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 5-3-13

REVISION DATE: 5-3-13

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ALLEGION™

TITLE: REMOTE 621AA PB WITH SINGLE FIRE RATED EL PANICS

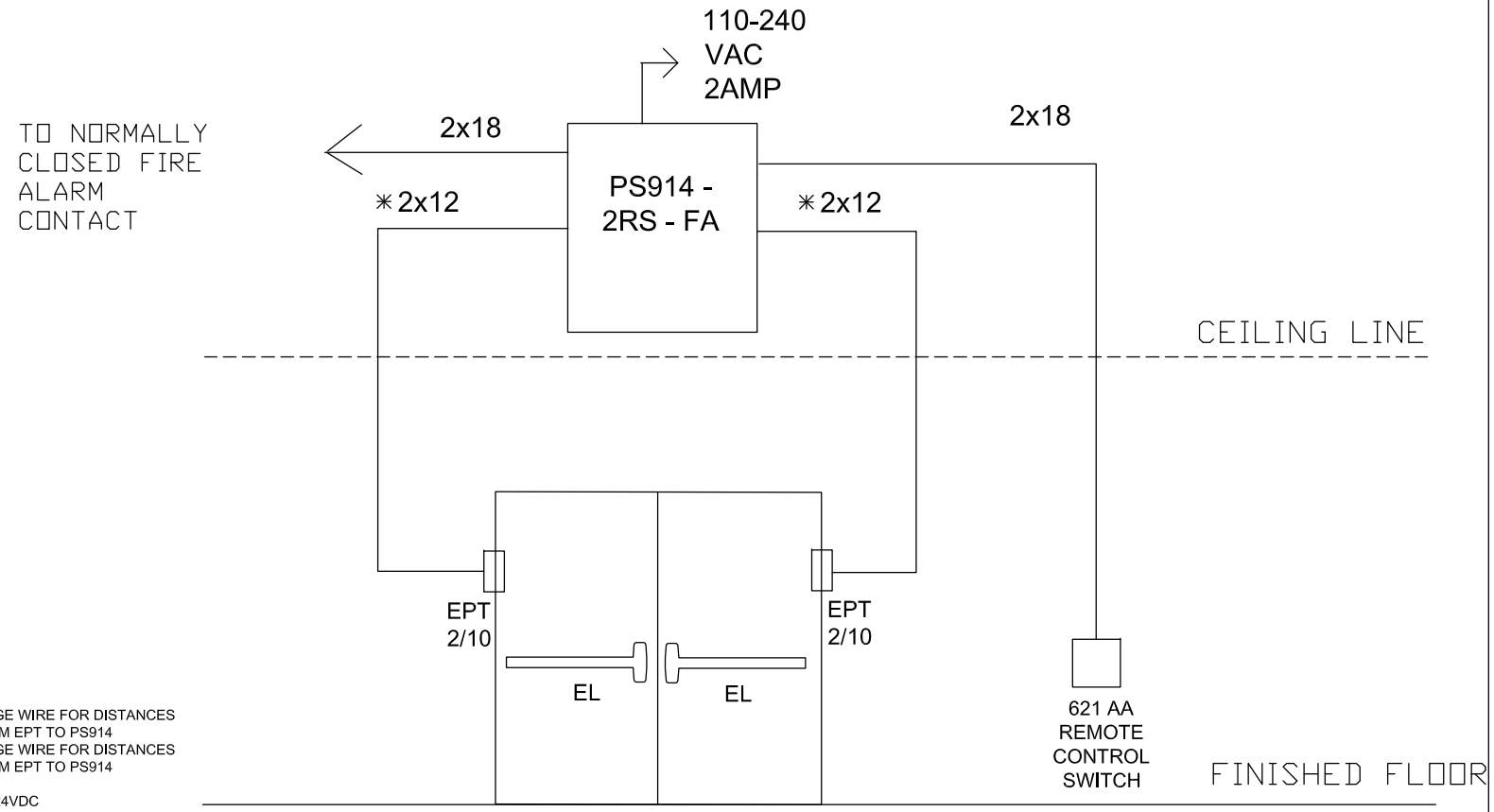
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109552

DRAWN/CHECKED BY: B DOVE

REV A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

SET PS914 TO 24VDC

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
2 VON DUPRIN OR FALCON FIRE RATED EL PANIC DEVICES

1 PS914-2RS-FA POWER SUPPLY

2 EPT POWER TRANSFERS

1 621 AA REMOTE CONTROL PUSH BUTTON

1 FIRE ALARM CONTACT

TYPE REMOTE 621AA PB WITH PAIR FIRE RATED EL DEVICES

OPERATION:
REMOTE CONTROL 621 AA PB TO SIGNAL PAIR FIRE RATED EL ELECTRIC PANIC BAR TO RETRACT FOR ENTRY.

RELEASING 621AA PUSH BUTTON OR FIRE ALARM WILL CAUSE EL LATCHES TO EXTEND.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 5-3-13

REVISION DATE 5-3-13

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ALLEGION™

TITLE: REMOTE 621AA PB WITH PAIR FIRE RATED EL PANICS

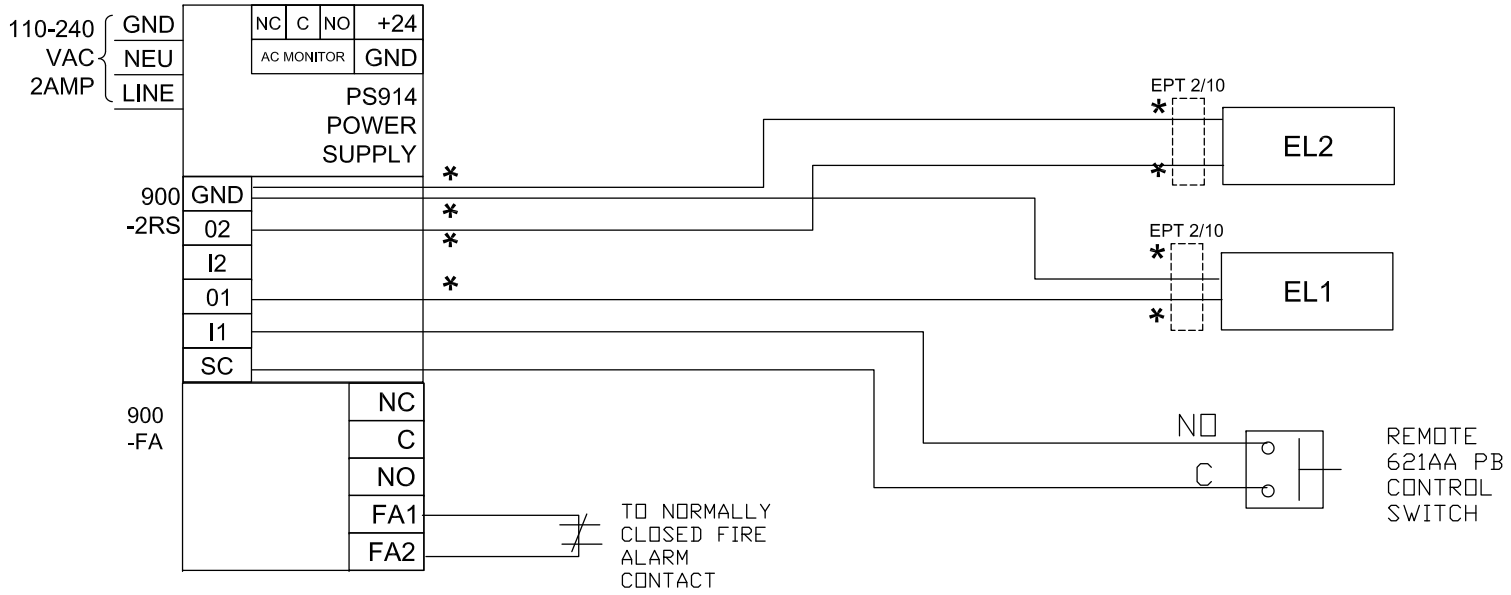
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109553

REV A

DRAWN/CHECKED BY: B DOVE

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

SET PS914 TO 24VDC

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
2 VON DUPRIN OR FALCON FIRE RATED EL PANIC DEVICES

1 PS914-2RS-FA POWER SUPPLY

2 EPT POWER TRANSFERS

621 AA REMOTE CONTROL SWITCH

1 FIRE ALARM CONTACT

TYPE REMOTE 621AA PB WITH PAIR FIRE RATED EL DEVICES

OPERATION:
REMOTE CONTROL 621AA PB TO SIGNAL PAIR FIRE RATED ELECTRIC PANIC BARS TO RETRACT FOR ENTRY.

RELEASING 621AA PUSH BUTTON OR FIRE ALARM TO CAUSE EL LATCHES TO EXTEND.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 5-3-13
REVISION DATE: 5-3-13

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ALLEGION™

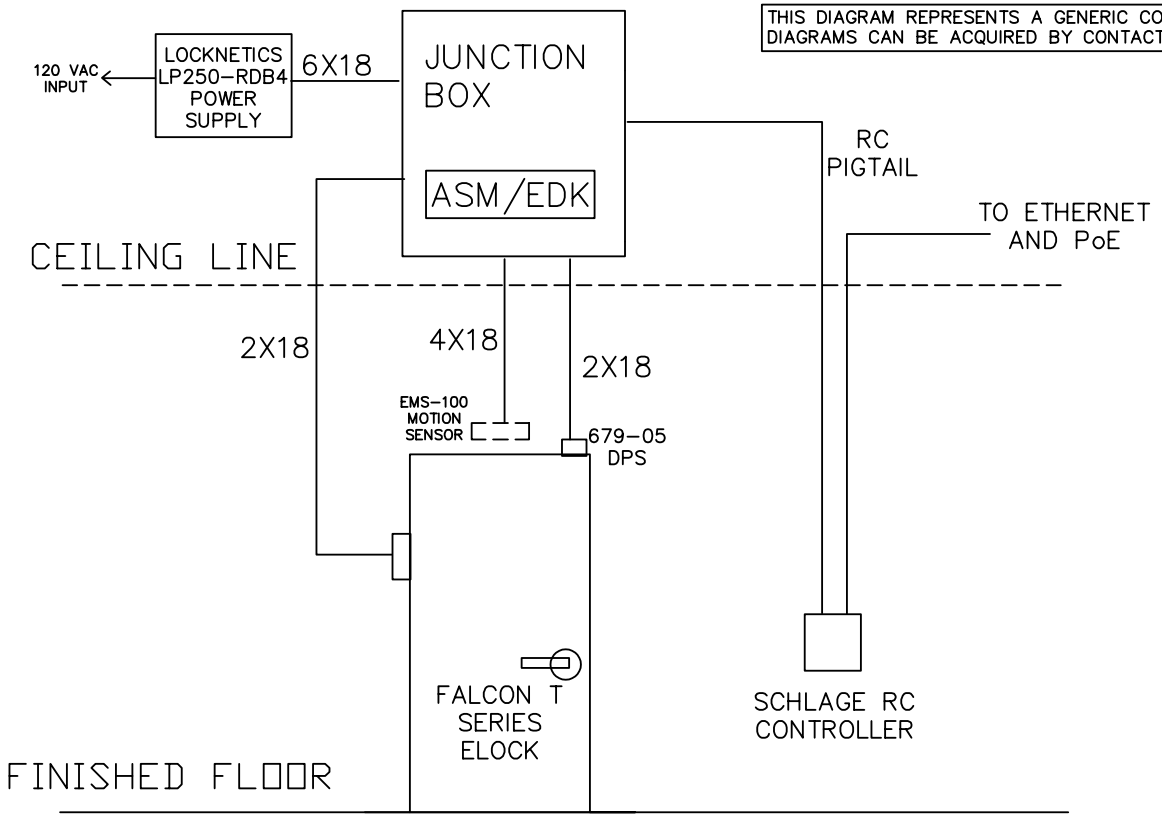
TITLE: REMOTE 621AA PB WITH PAIR FIRE RATED EL PANICS

DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109553

DRAWN/CHECKED BY: B DOVE

REV: A




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
SCHLAGE RC CONTROLLER
SCHLAGE RC PIGTAIL
SCHLAGE ASM/EDK MODULE
FALCON T SERIES ELOCK
LOCKNETICS EMS-100 MOTION SENSOR
SCHLAGE 679-05 DPS
LOCKNETICS LP250RDB4 POWER SUPPLY
JUNCTION BOX

OPERATION:.
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL TO UNLOCK ELOCK OR KEY OVERRIDE.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-15-20

REVISION DATE: 10-15-20

ALLEGION™

SCHLAGE RC CONTROLLER, ELOCK, DPS, MOTION SENSOR, LP250 PS - SINGLE DOOR

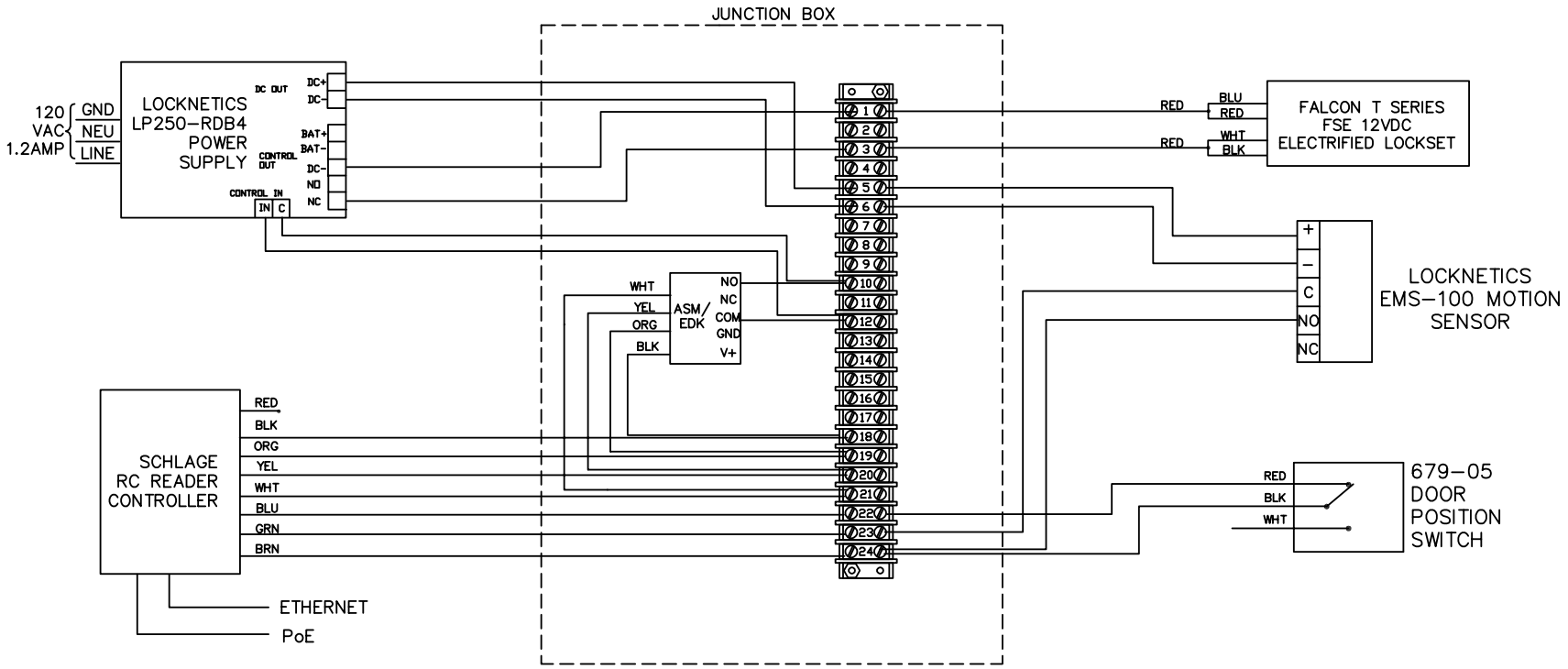
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113738R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:
SCHLAGE RC CONTROLLER
SCHLAGE RC PIGTAIL
SCHLAGE ASM/EDK MODULE
FALCON T SERIES ELOCK
LOCKNETICS EMS-100 MOTION SENSOR
SCHLAGE 679-05 DPS
LOCKNETICS LP250RDB4 POWER SUPPLY
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL TO UNLOCK ELOCK OR KEY OVERRIDE.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-15-20

REVISION DATE: 10-15-20

ALLEGION™

SCHLAGE RC CONTROLLER, ELOCK, DPS, MOTION SENSOR, LP250 PS - SINGLE DOOR

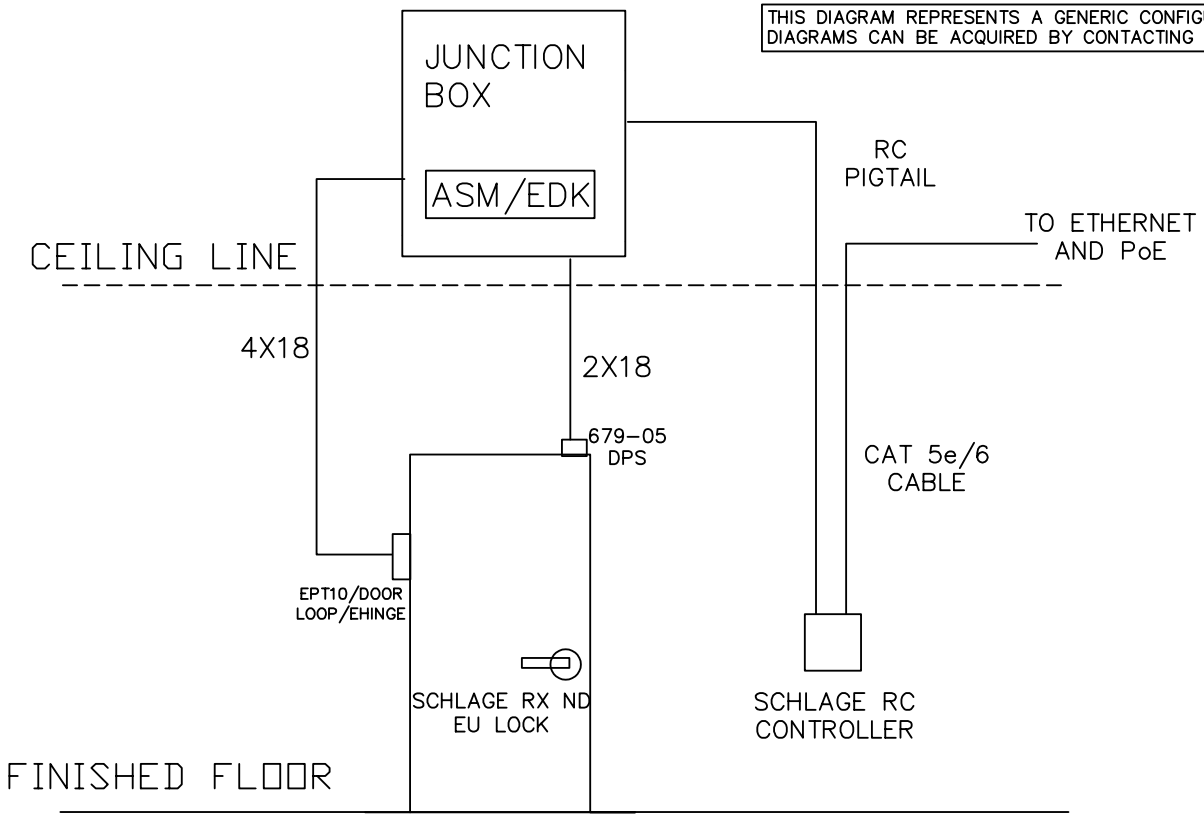
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113738W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
SCHLAGE RC CONTROLLER
SCHLAGE RC PIGTAIL
SCHLAGE ASM/EDK MODULE
SCHLAGE RX ND EU LOCK
SCHLAGE 679-05 DPS
EPT10/DOOR LOOP/EHINGE
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL TO UNLOCK ELOCK OR KEY OVERRIDE.

RX SWITCH IN RX ND E LOCK TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-16-20

REVISION DATE: 10-16-20

ALLEGION™

SCHLAGE RC CONTROLLER, RX ND EU ELOCK, 679-05 DPS - SINGLE DOOR

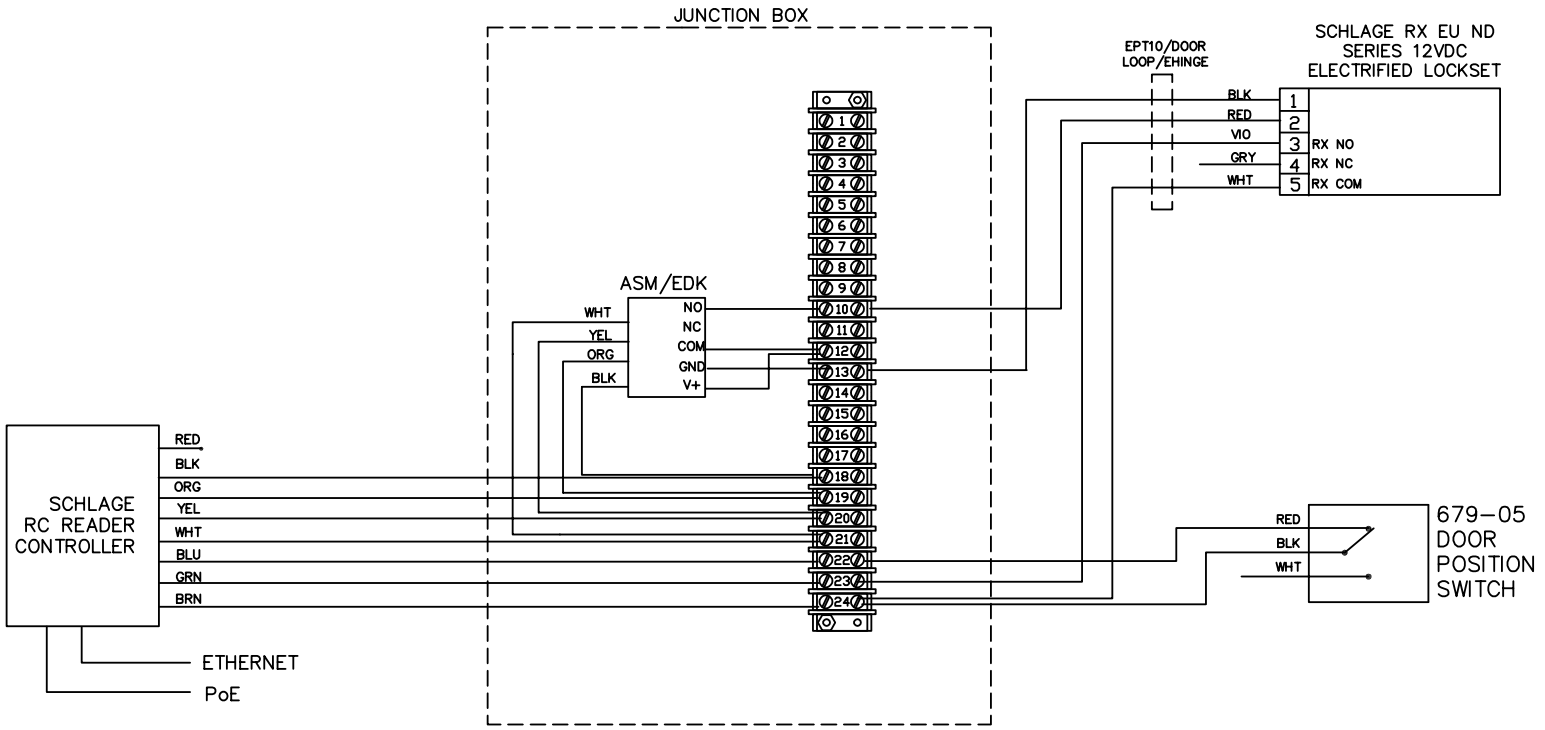
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113739R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

SCHLAGE RC CONTROLLER
SCHLAGE RC PIGTAIL
SCHLAGE ASM/EDK MODULE
SCHLAGE RX ND EU LOCK
SCHLAGE 679-05 DPS
EPT10/DOOR LOOP/EHINGE
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL TO UNLOCK ELOCK OR KEY OVERRIDE.

RX SWITCH IN RX ND E LOCK TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-16-20

REVISION DATE: 10-16-20

ALLEGION™

SCHLAGE RC CONTROLLER, RX ND EU ELOCK, 679-05 DPS - SINGLE DOOR

DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113739W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

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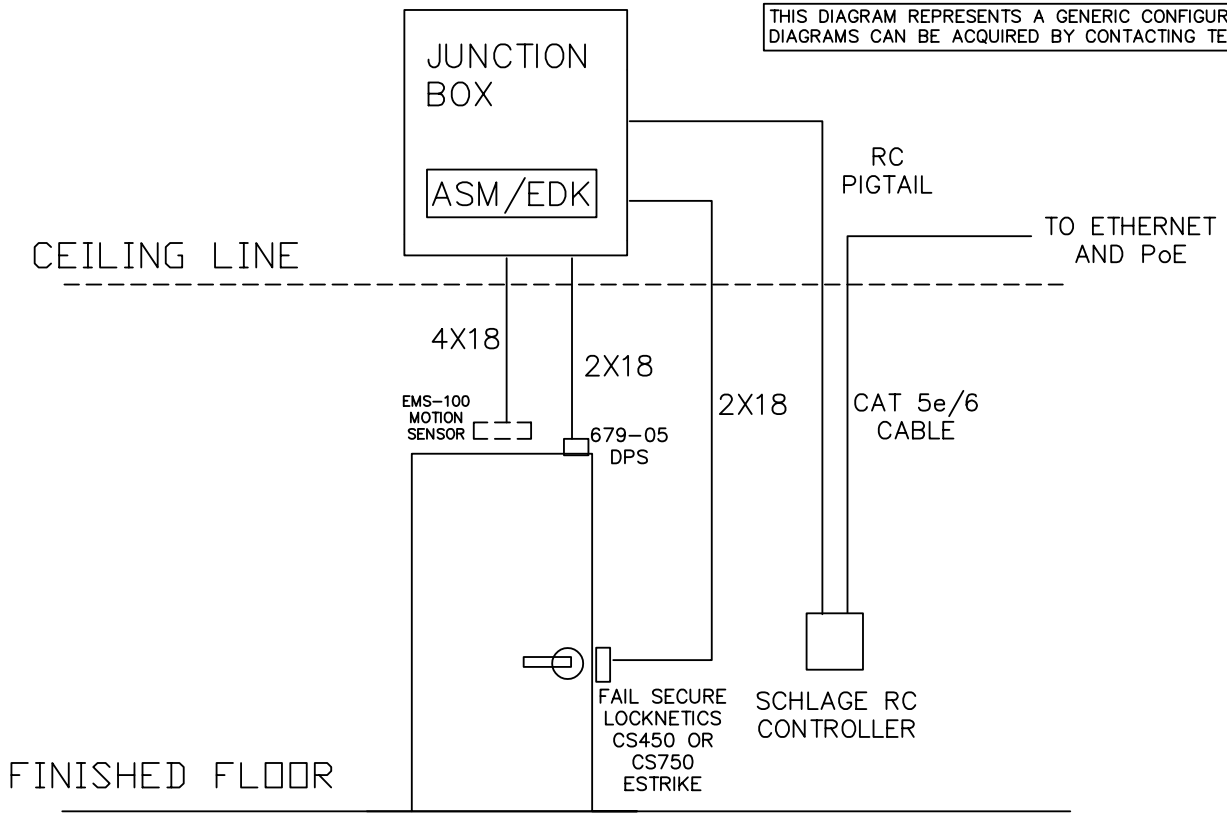



NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS CS 450-750 STRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE

MOTION SENSOR TO SHUNT DOOR FORCED ALARM

FREE EGRESS AT ALL TIMES

DATE DRAWN: 10-08-20

REVISION DATE: 10-08-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH ESTRIKE-SINGLE DOOR

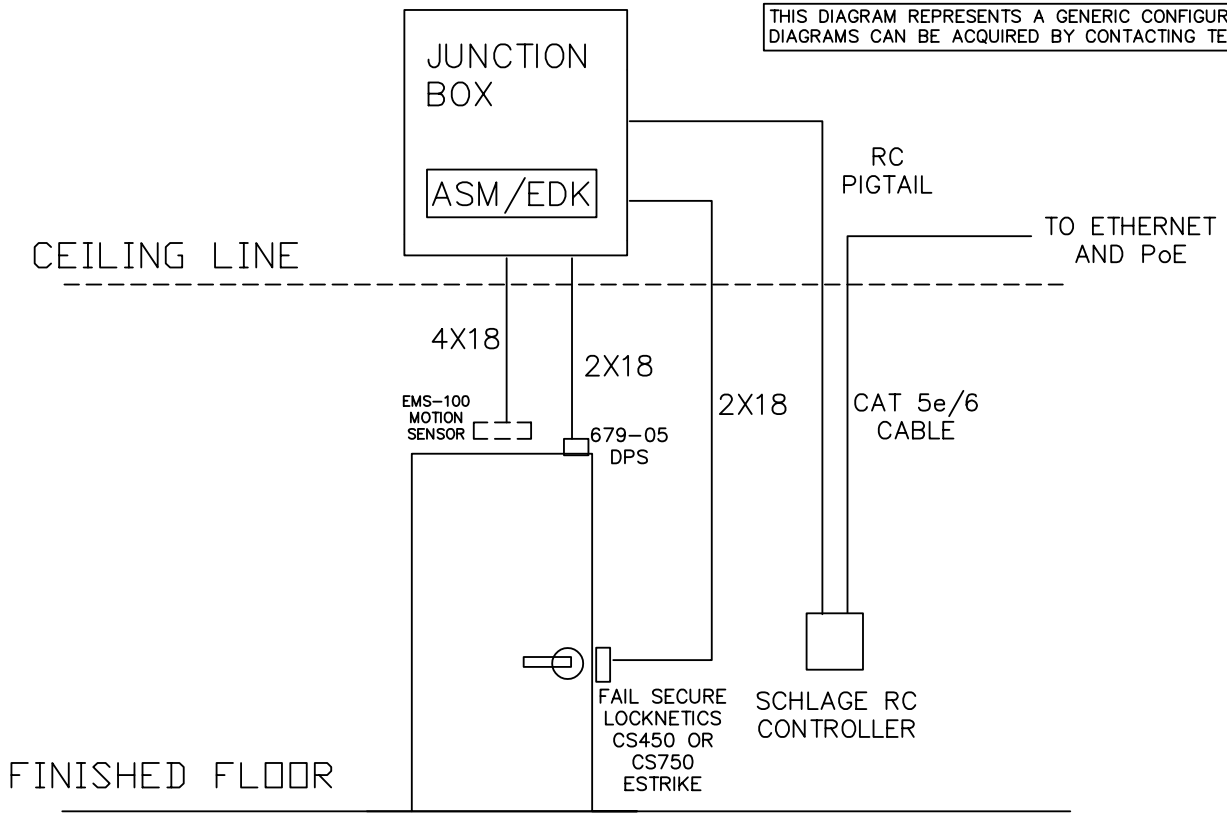
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113749R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
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2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS CS 450-750 STRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE

MOTION SENSOR TO SHUNT DOOR FORCED ALARM

FREE EGRESS AT ALL TIMES

DATE DRAWN: 10-08-20

REVISION DATE: 10-08-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH ESTRIKE-SINGLE DOOR

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113749R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

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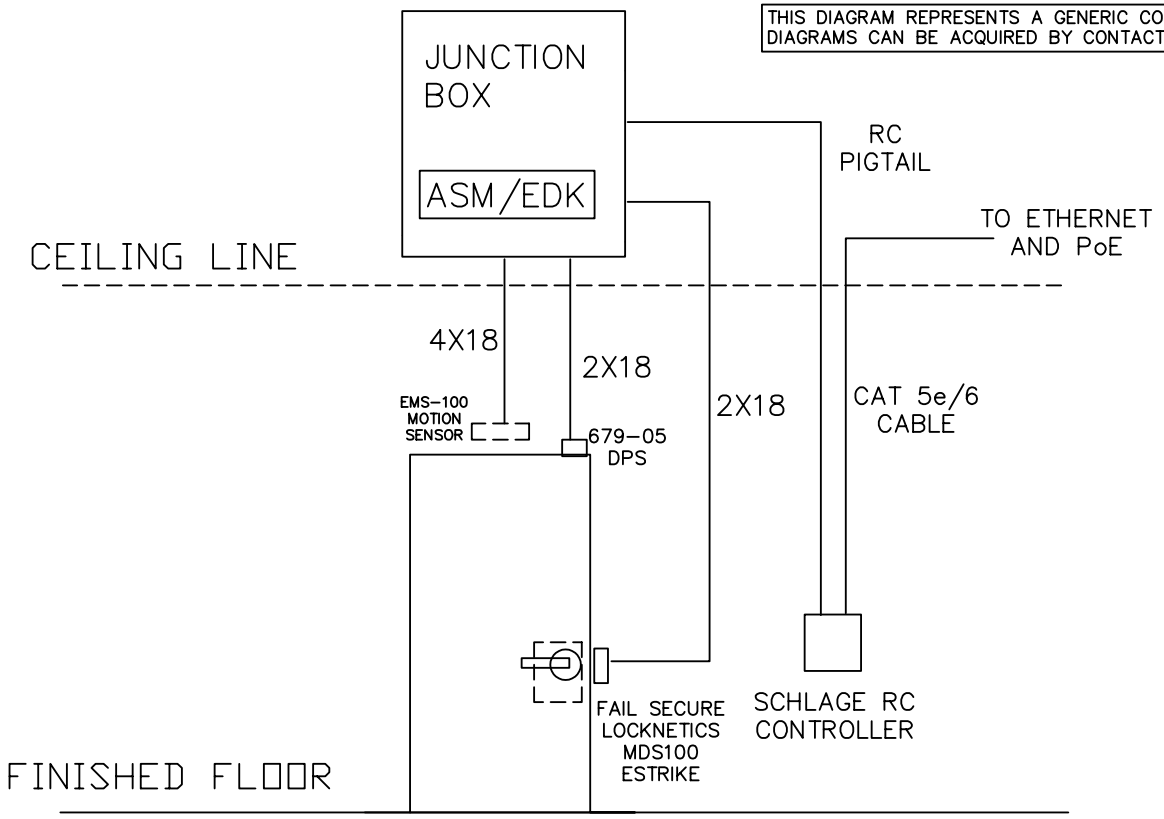


NOTES:
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4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS MDS100 STRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE

MOTION SENSOR TO SHUNT DOOR FORCED ALARM

FREE EGRESS AT ALL TIMES

DATE DRAWN: 10-08-20

REVISION DATE: 10-08-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH ESTRIKE-SINGLE DOOR

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113750R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

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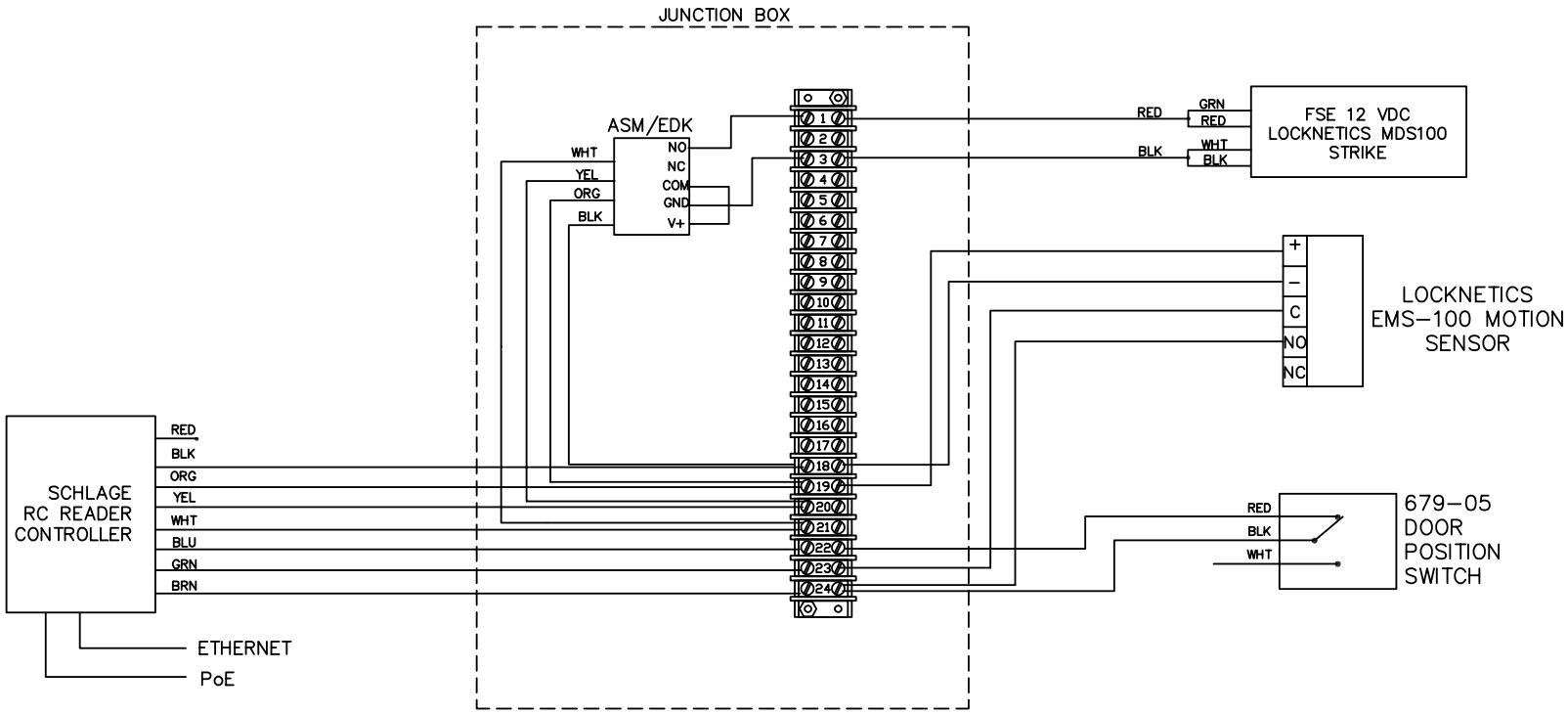



NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS MDS100 STRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE

MOTION SENSOR TO SHUNT DOOR FORCED ALARM

FREE EGRESS AT ALL TIMES

DATE DRAWN: 10-08-20

REVISION DATE: 10-08-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH ESTRIKE-SINGLE DOOR

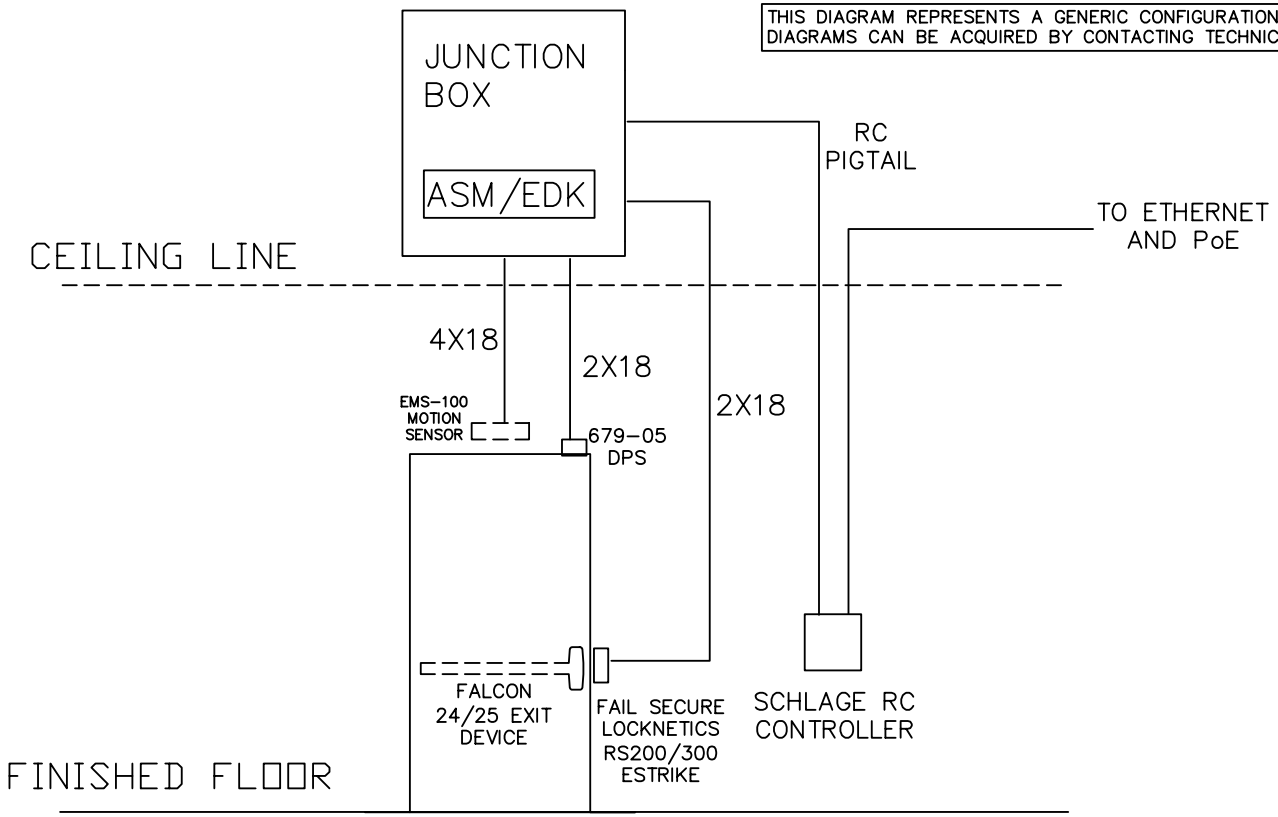
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113750W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
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4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS RS200-RS300 STRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-14-20

REVISION DATE: 10-14-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH ESTRIKE RIM PANIC-SINGLE DOOR

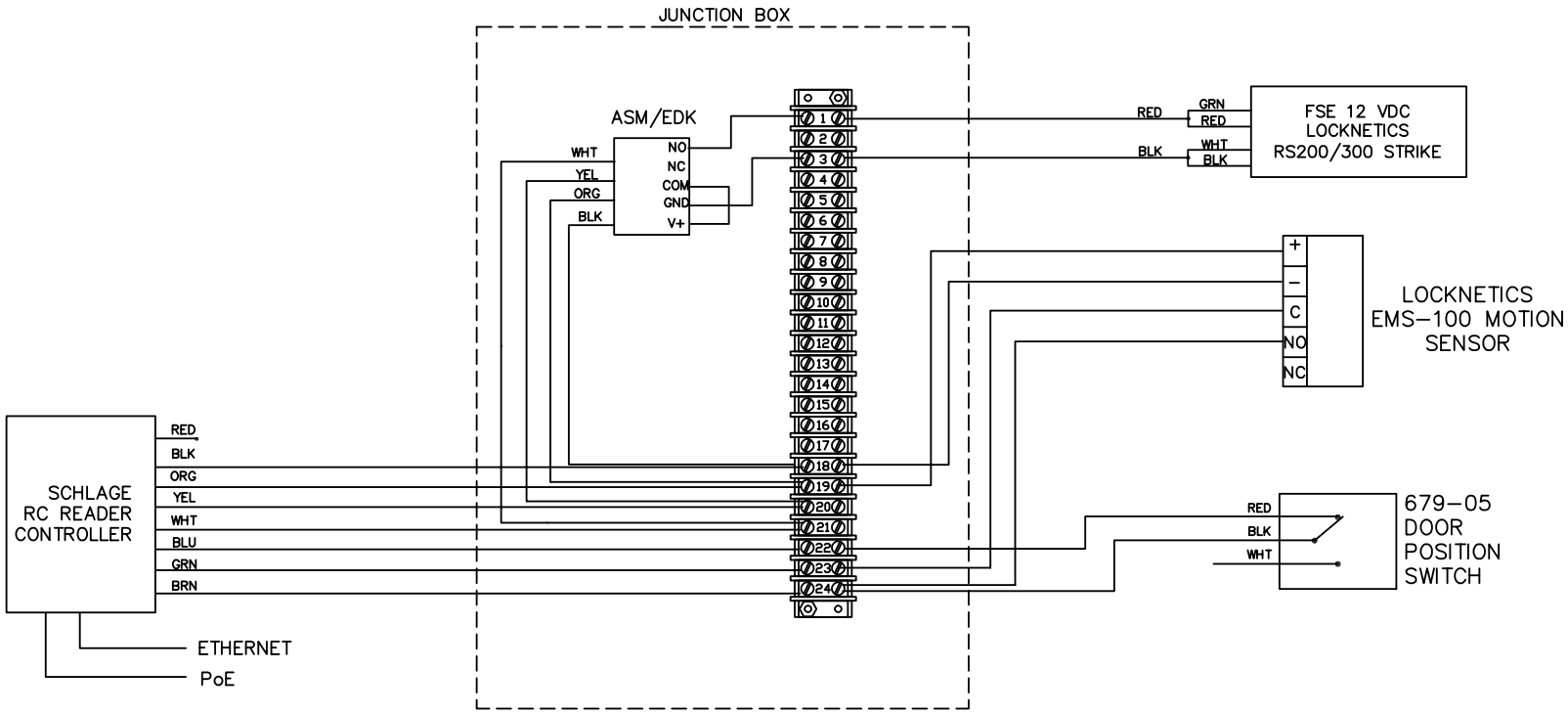
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113751R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
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2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS RS200-RS300 STRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-14-20

REVISION DATE: 10-14-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH ESTRIKE RIM PANIC-SINGLE DOOR

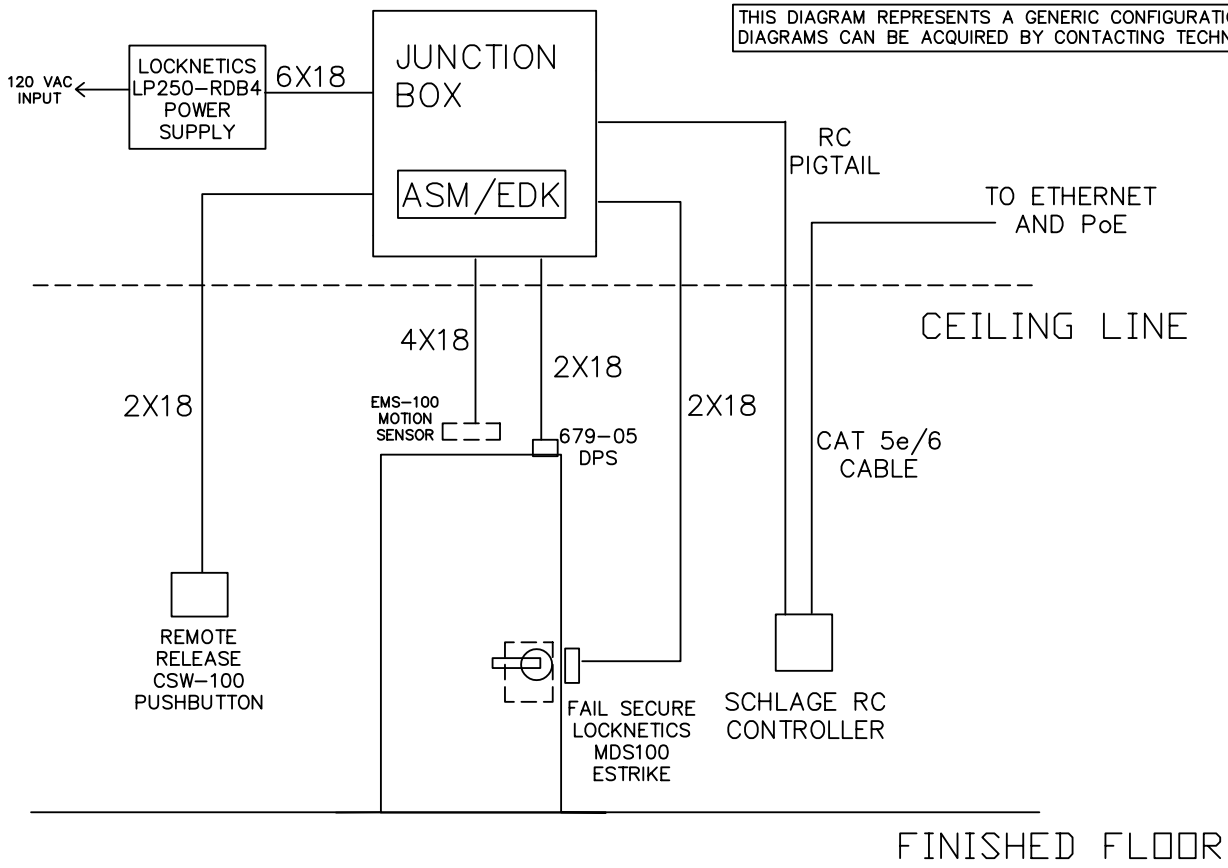
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113751W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
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2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS MDS100 STRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- SCHLAGE 679-05 DPS
- LOCKNETICS CSW100 REMOTE RELEASE
- LOCKNETICS LP250RDB4 POWER SUPPLY
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE.

REMOTE RELEASE VIA CSW100 PUSHBUTTON.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM .

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-15-20

REVISION DATE: 10-15-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER, ESTRIKE, REMOTE RELEASE MOTION SENSOR, DPS-SINGLE DOOR

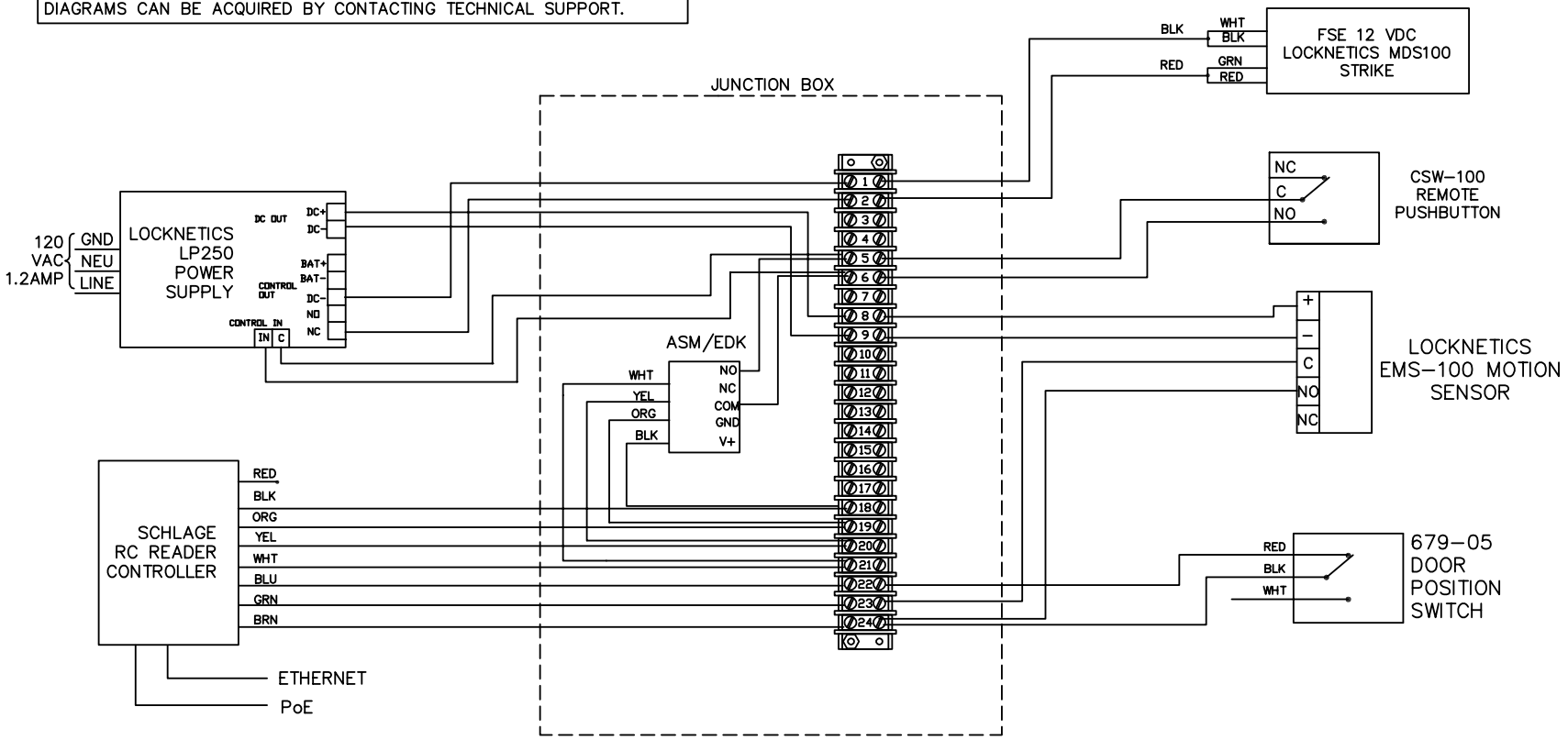
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113753R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS MDS100 STRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- SCHLAGE 679-05 DPS
- LOCKNETICS CSW100 REMOTE RELEASE
- LOCKNETICS LP250RDB4 POWER SUPPLY
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE.

REMOTE RELEASE VIA CSW100 PUSHBUTTON.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-15-20

REVISION DATE: 10-15-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER, ESTRIKE, REMOTE RELEASE MOTION SENSOR, DPS-SINGLE DOOR

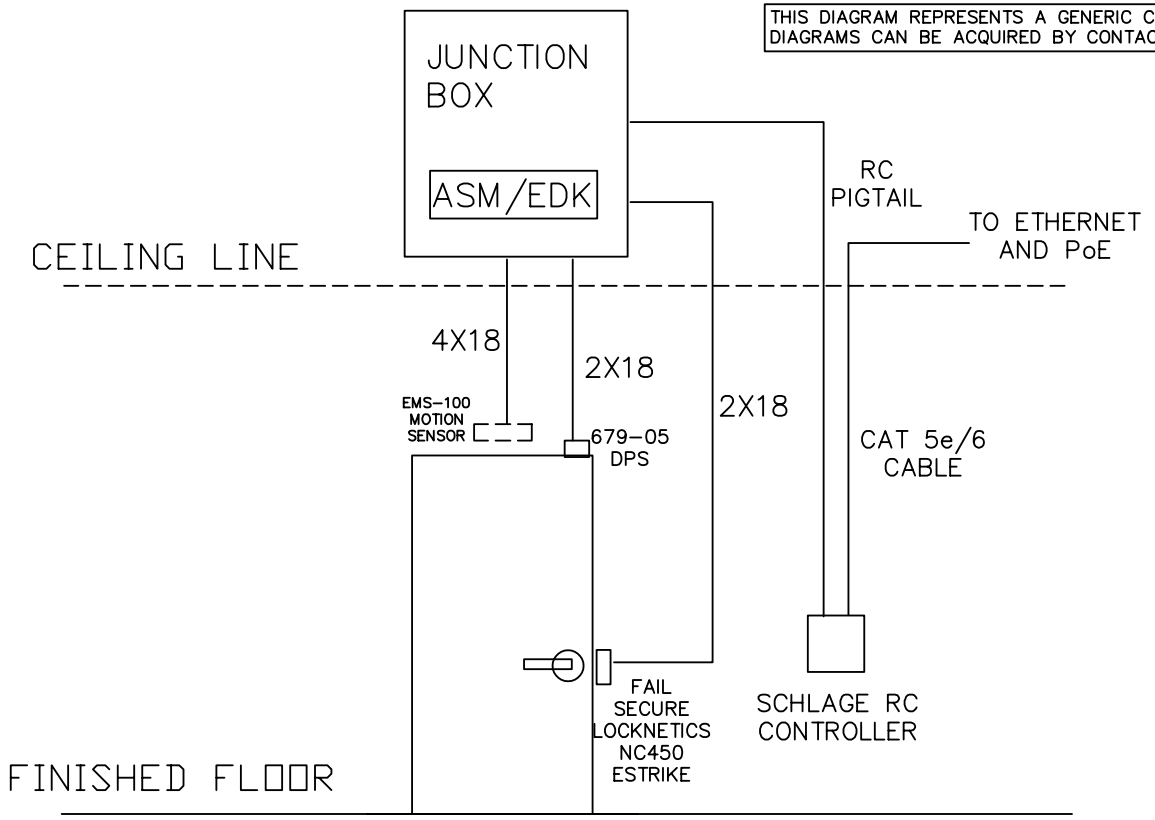
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113753W

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
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2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS NC450 NO CUT STRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE

MOTION SENSOR TO SHUNT DOOR FORCED ALARM

FREE EGRESS AT ALL TIMES

DATE DRAWN: 09-04-20

REVISION DATE: 09-04-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH ESTRIKE-SINGLE DOOR

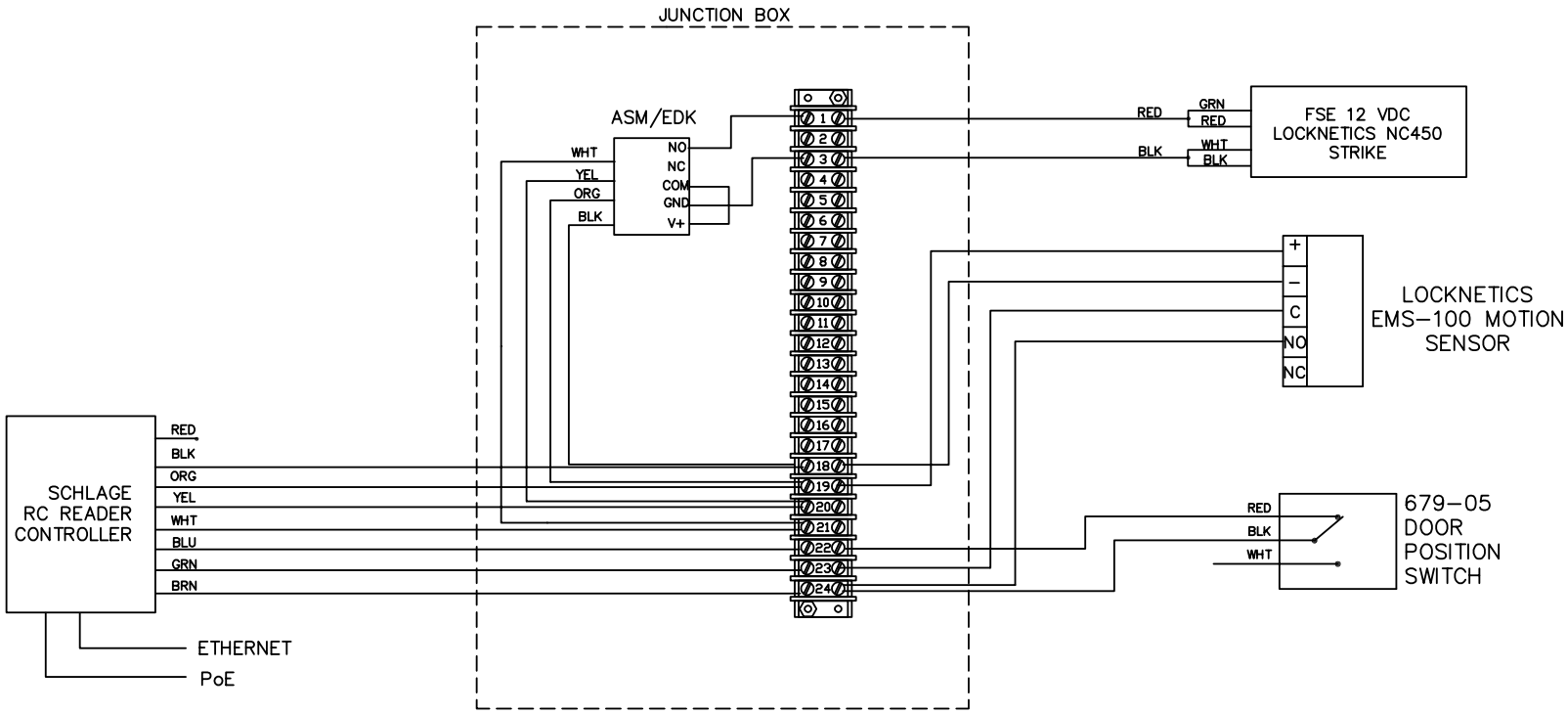
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113754R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS NC450 NO CUT STRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE

MOTION SENSOR TO SHUNT DOOR FORCED ALARM

FREE EGRESS AT ALL TIMES

DATE DRAWN: 09-04-20

REVISION DATE: 09-04-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH ESTRIKE-SINGLE DOOR

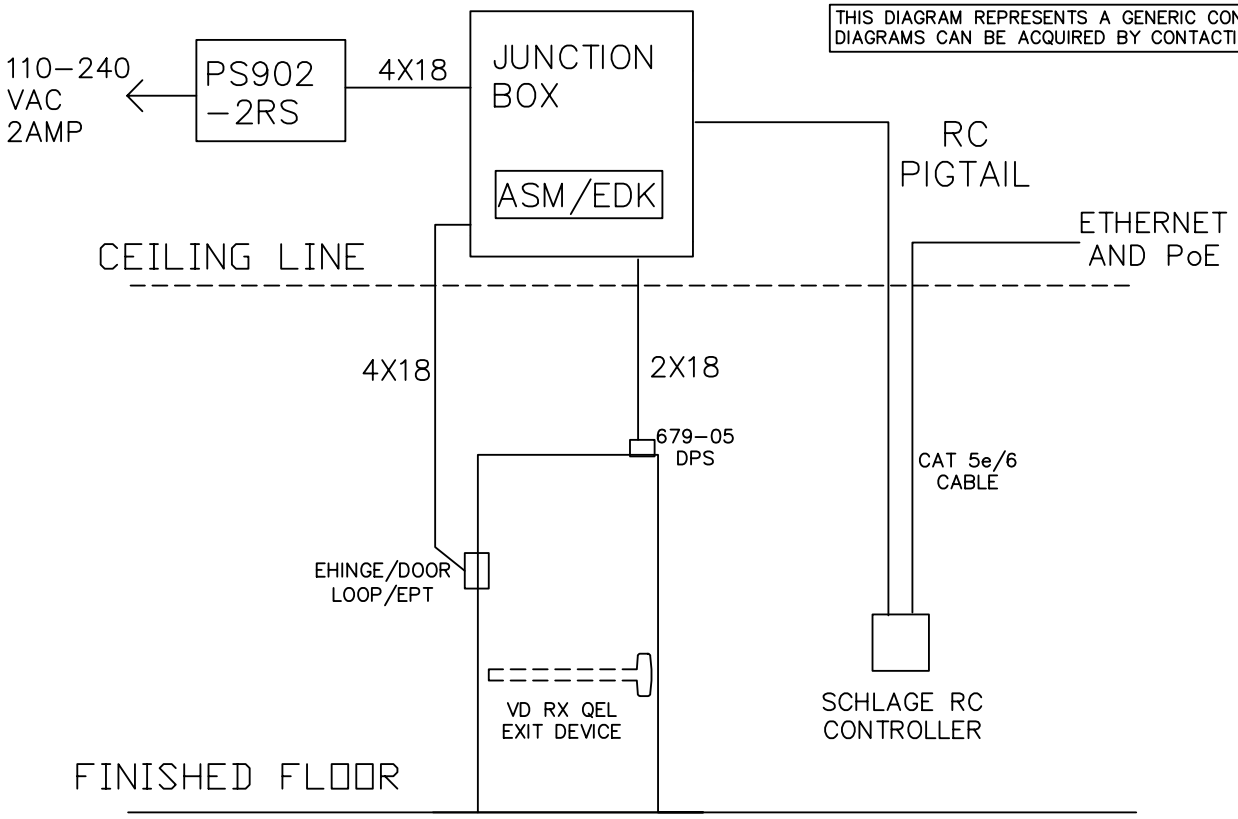
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113754W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- VON DUPRIN RX QEL
- 33A/35A/98/99 RIM EXIT DEVICE
- DOOR LOOP OR EHINGE OR EPT
- VON DUPRIN PS902x900-2RS
- 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL SIGNAL QEL LATCH RETRACTION ON PANIC DEVICE.

RX IN PANIC DEVICE TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 09-09-20

REVISION DATE: 09-09-20

ALLEGION™

TITLE:
SCHLAGE RC CONTROLLER WITH RX QEL EXIT -SINGLE DOOR

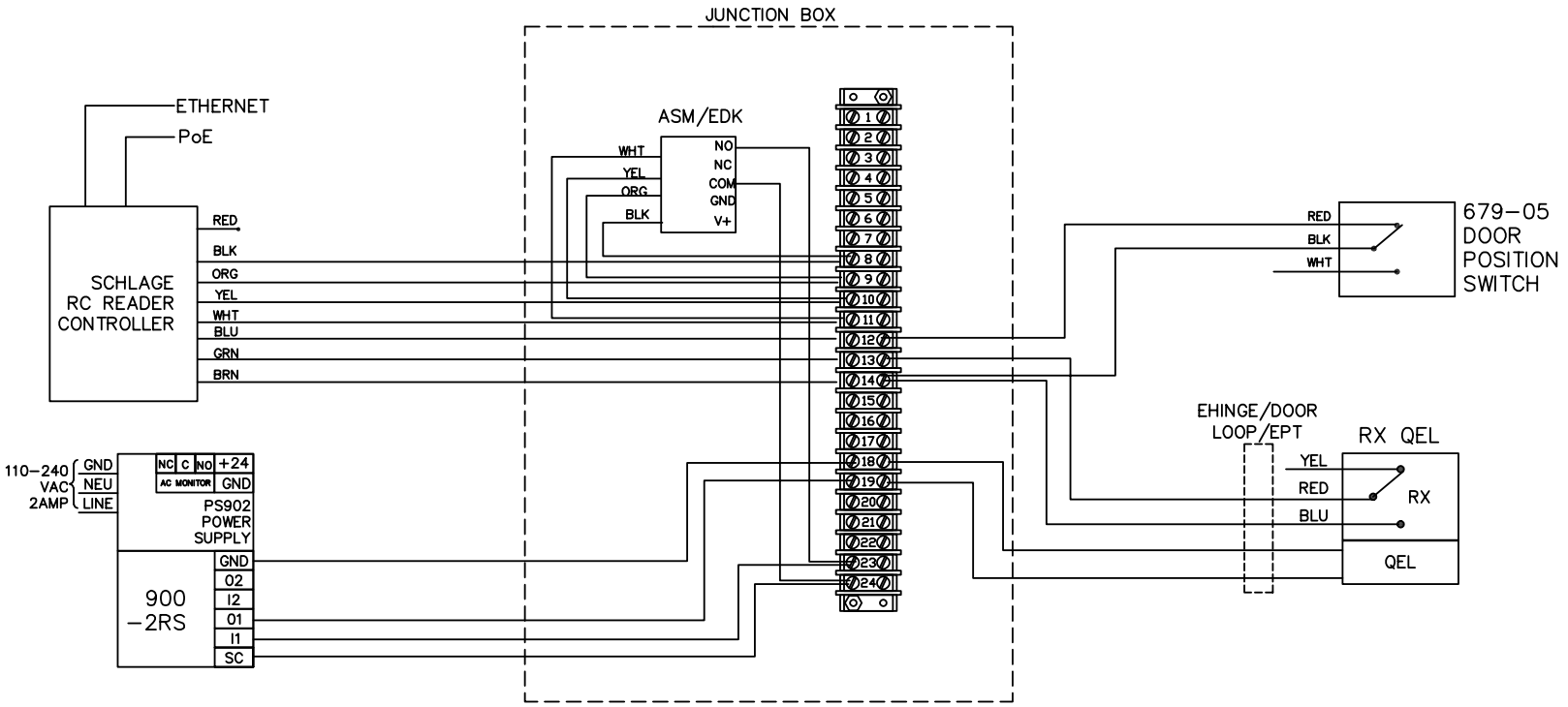
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113755R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- VON DUPRIN RX QEL
- 33A/35A/98/99 RIM EXIT DEVICE
- DOOR LOOP OR EHINGE OR EPT
- VON DUPRIN PS902x900-2RS
- 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL SIGNAL QEL LATCH RETRACTION ON PANIC DEVICE.

RX IN PANIC DEVICE TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 09-09-20

REVISION DATE: 09-09-20

ALLEGION™

TITLE:
SCHLAGE RC CONTROLLER WITH RX QEL EXIT -SINGLE DOOR

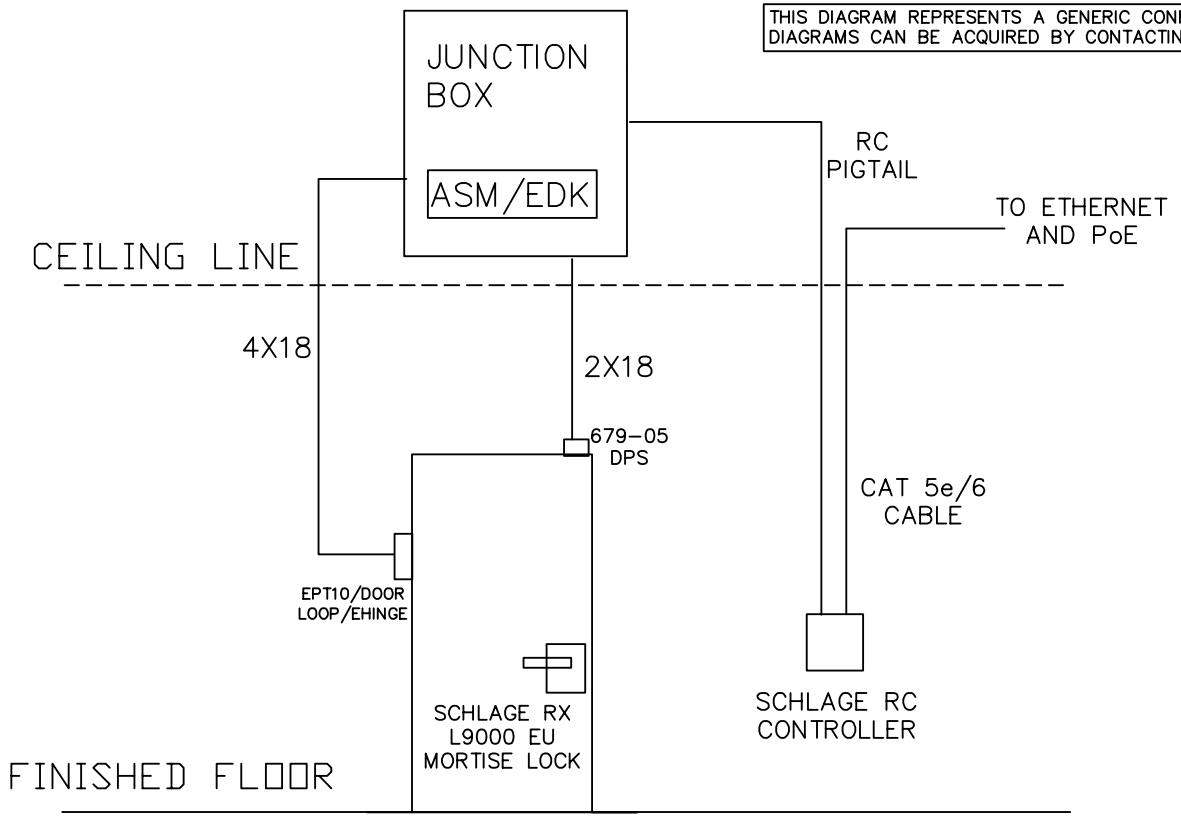
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113755W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
SCHLAGE RC CONTROLLER
SCHLAGE RC PIGTAIL
SCHLAGE ASM/EDK MODULE
SCHLAGE RX L9000 EU MORTISE LOCK
SCHLAGE 679-05 DPS
EPT10/DOOR LOOP/EHINGE
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL TO UNLOCK ELOCK OR KEY OVERRIDE.

RX SWITCH IN RX L9000 EU MORTISE LOCK TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-16-20

REVISION DATE: 10-16-20

ALLEGION™

SCHLAGE RC CONTROLLER, RX L9000 EU MORTISE LOCK, 679-05 DPS - SINGLE DOOR

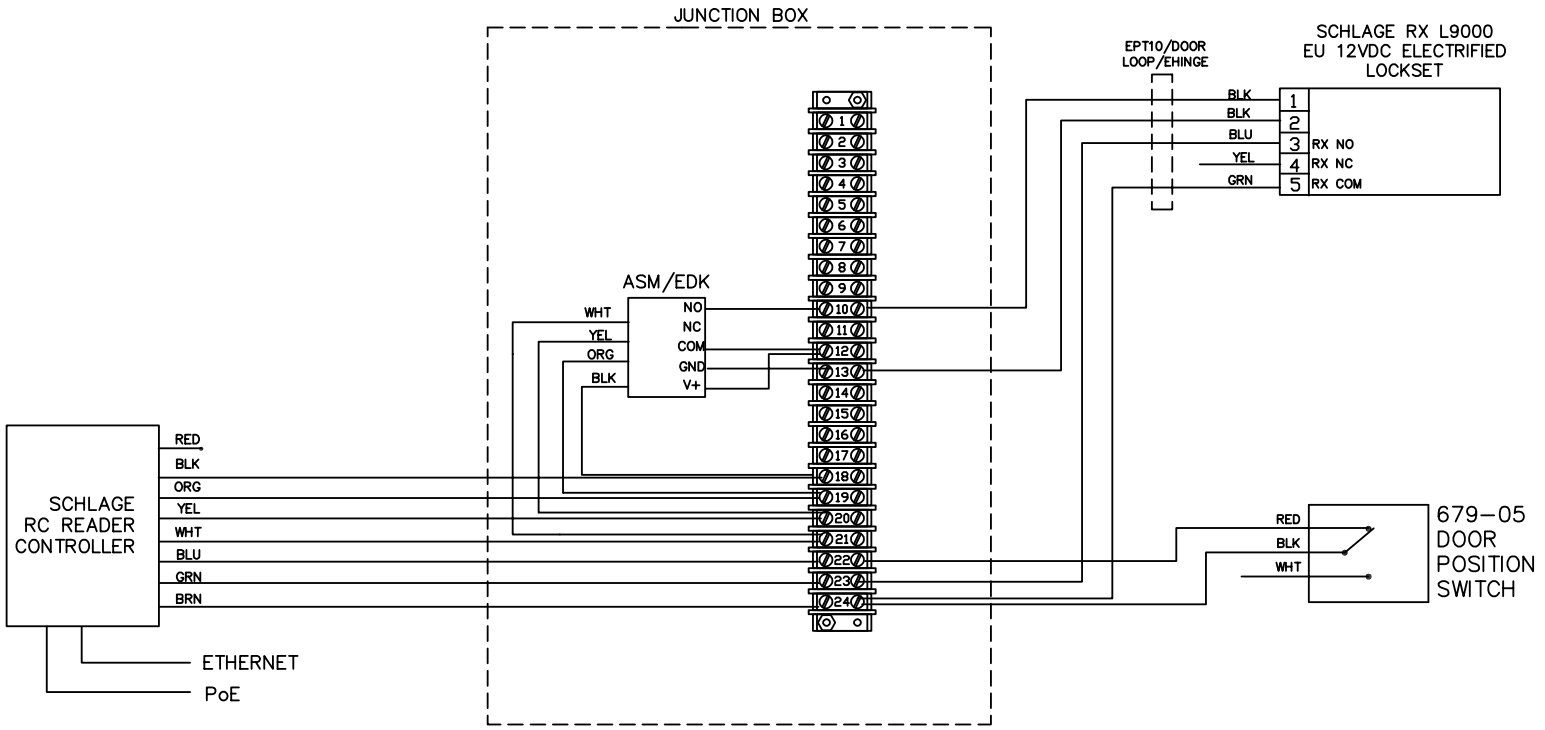
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113762R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

SCHLAGE RC CONTROLLER
SCHLAGE RC PIGTAIL
SCHLAGE ASM/EDK MODULE
SCHLAGE RX L9000 EU MORTISE LOCK
SCHLAGE 679-05 DPS
EPT10/DOOR LOOP/EHINGE
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL TO UNLOCK ELOCK OR KEY OVERRIDE.

RX SWITCH IN RX L9000 EU MORTISE LOCK TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-16-20

REVISION DATE: 10-16-20

ALLEGION™

SCHLAGE RC CONTROLLER, RX L9000 EU MORTISE LOCK, 679-05 DPS - SINGLE DOOR

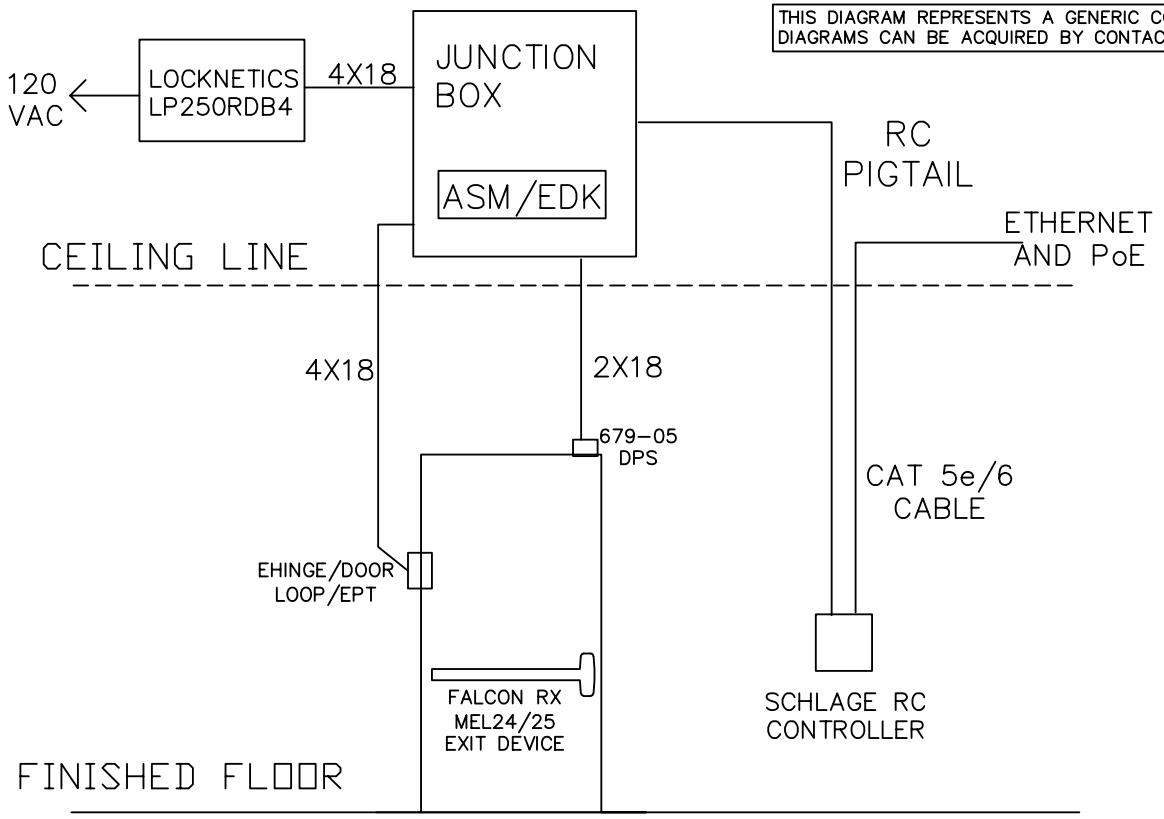
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113762W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- FALCON RX MEL 24/25 EXIT DEVICE
- DOOR LOOP OR EHINGE OR EPT
- LOCKNETICS LP250RDB4 POWER SUPPLY
- SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL TO SIGNAL MEL LATCH RETRACTION ON PANIC DEVICE.

RX IN PANIC DEVICE TO SHUNT DOOR FORCED ALARM .

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-16-20

REVISION DATE: 10-16-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH RX MEL EXIT, DPS, LP250 -SINGLE DOOR

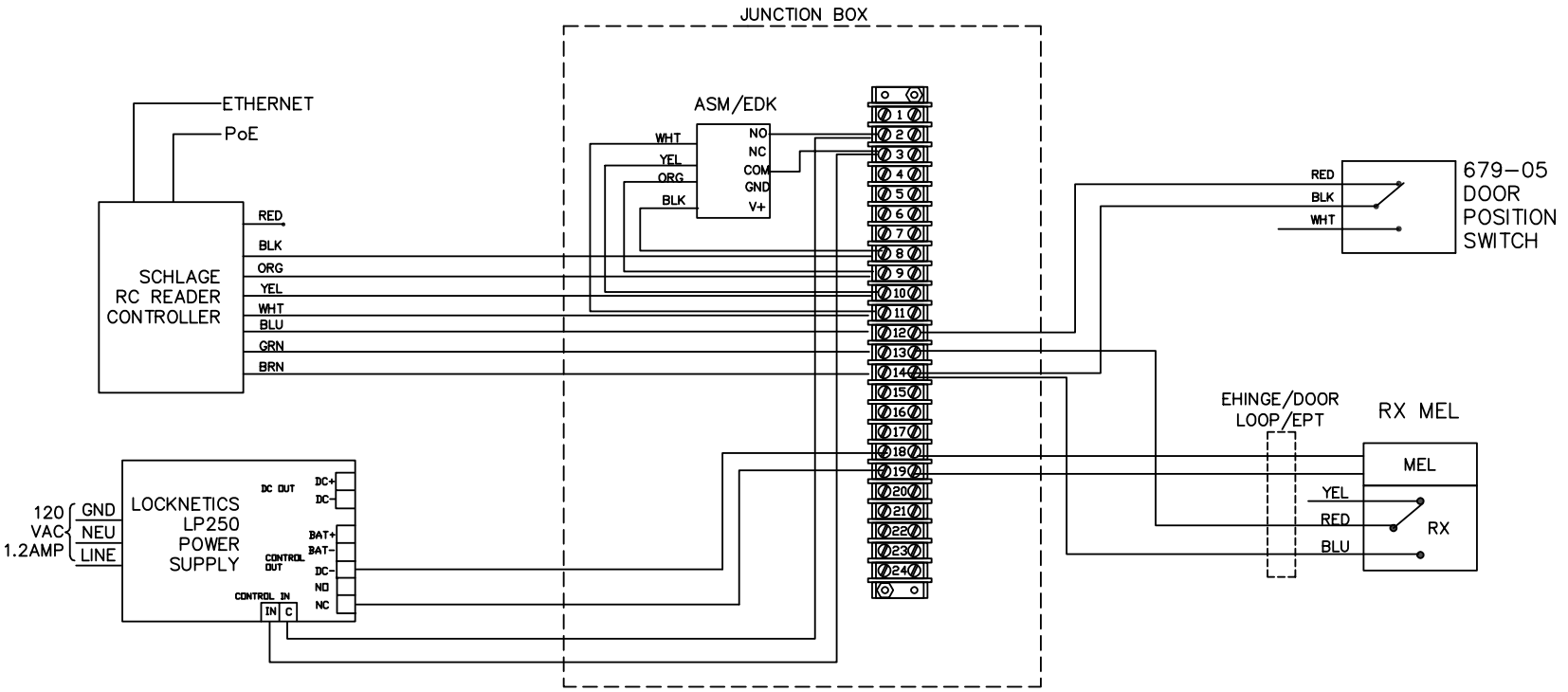
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113763R

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- FALCON RX MEL 24/25 EXIT DEVICE
- DOOR LOOP OR EHINGE OR EPT
- LOCKNETICS LP250RDB4 POWER SUPPLY
- SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL TO SIGNAL MEL LATCH RETRACTION ON PANIC DEVICE.

RX IN PANIC DEVICE TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-16-20

REVISION DATE: 10-16-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH RX MEL EXIT, DPS, LP250 -SINGLE DOOR

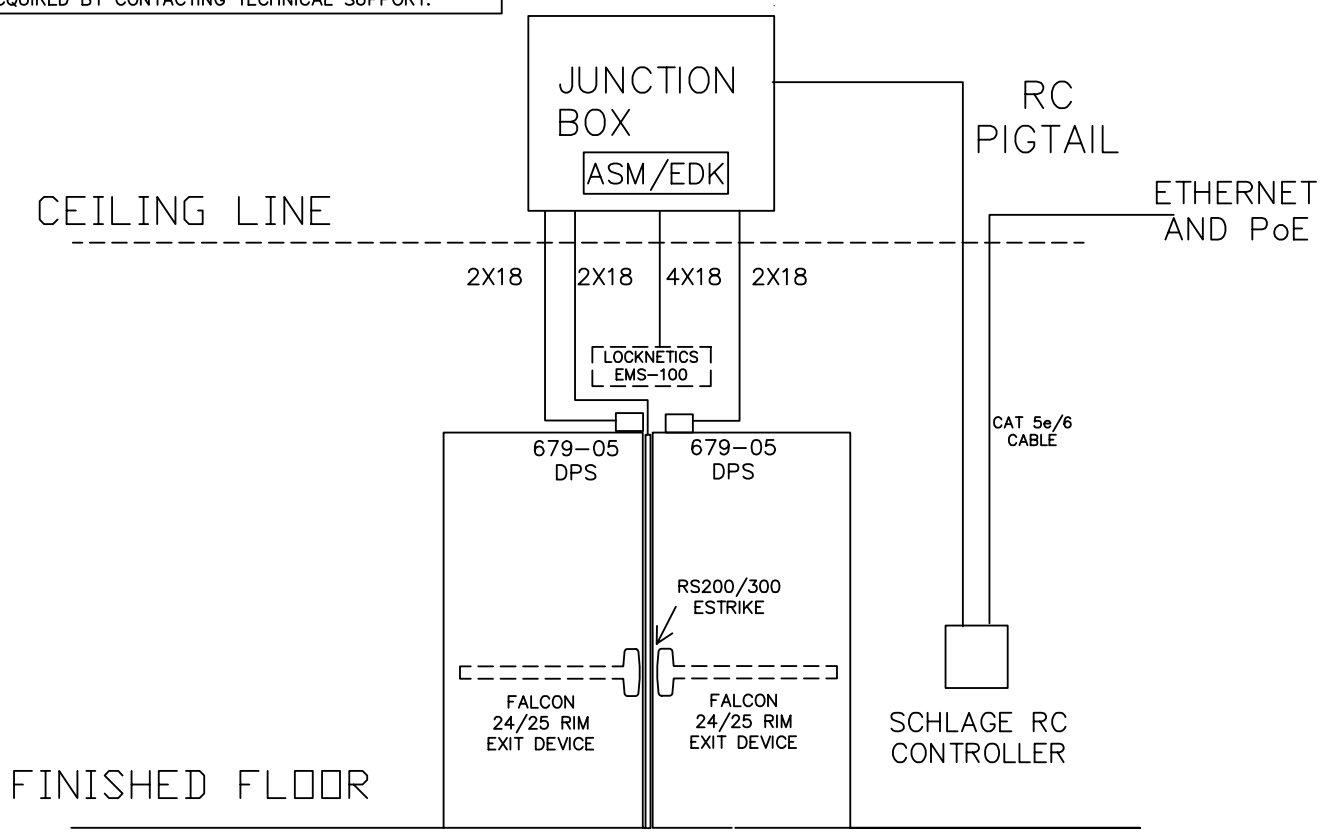
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113763W

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- 1 RS 200/300 FSE RIM ESTRIKE
- 2 FALCON 24 25 RIM PANICS
- 1 MULLION
- LOCKNETICS EMS-100 MOTION SENSOR
- 2 SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. PROPER CREDENTIAL RELEASES FSE RS200 300 ESTRIKE.

EMS-100 MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-19-20

REVISION DATE: 10-19-20

ALLEGION™

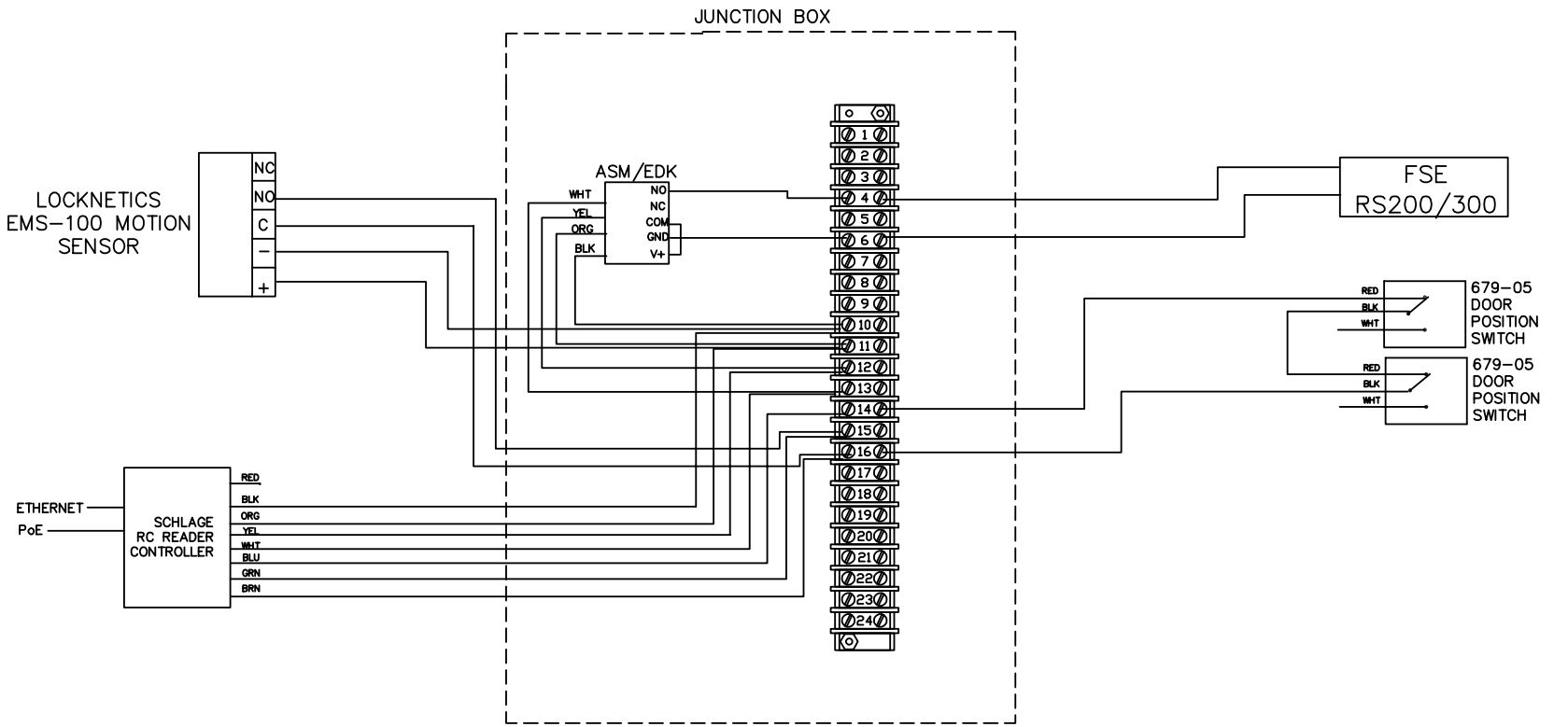
TITLE: SCHLAGE RC CONTROLLER WITH 24/25 RIM WITH MULLION, RS200/300, MOTION SENSOR, DPS PAIR OF DOORS

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113765R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- 1 RS 200/300 FSE RIM ESTRIKE
- 2 FALCON 24 25 RIM PANICS
- 1 MULLION
- LOCKNETICS EMS-100 MOTION SENSOR
- 2 SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. PROPER CREDENTIAL RELEASES FSE RS200 300 ESTRIKE.

EMS-100 MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-19-20

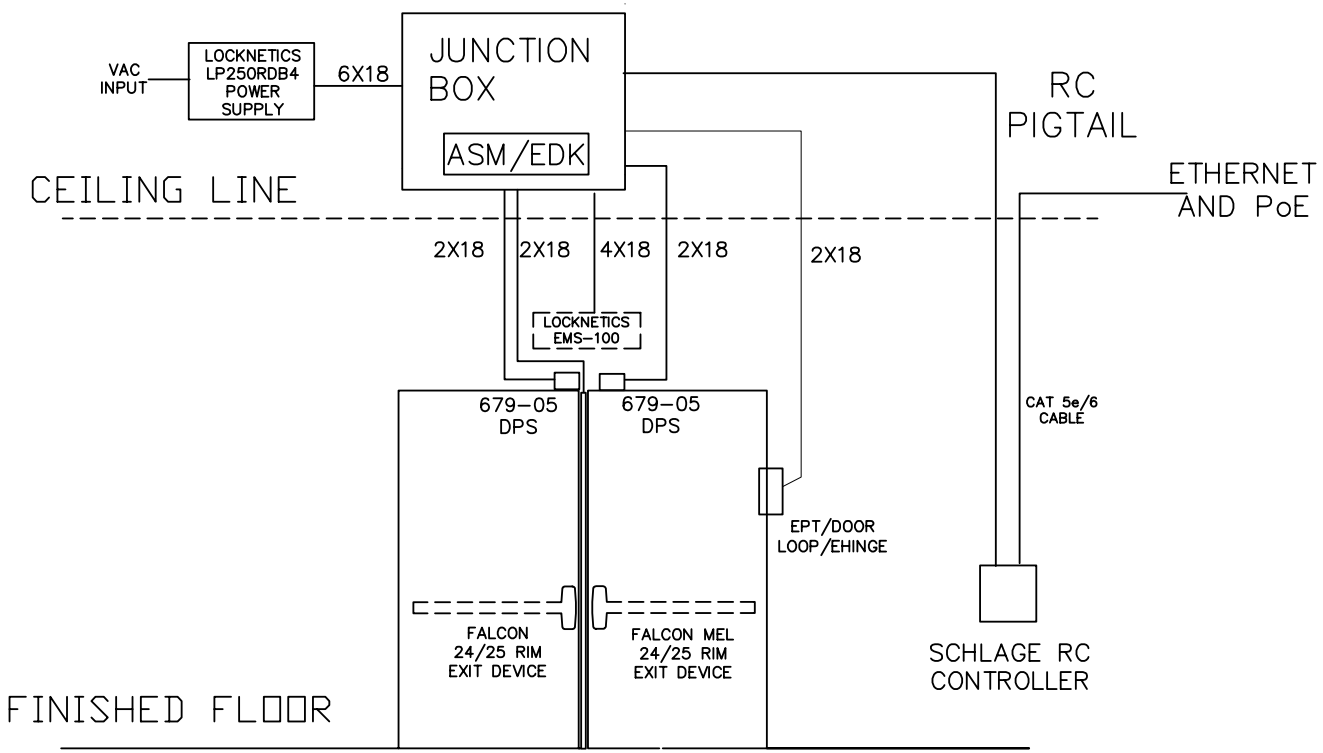
REVISION DATE: 10-19-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH 24/25 RIM WITH MULLION, RS200/300, MOTION SENSOR, DPS PAIR OF DOORS

| DRAWING TYPE: | DWG NO: | REV |
|---|---|---|
| WIRING DIAGRAM | 113765W | A |
| | DRAWN/CHECKED BY: DOVE/TAMARCHENKO | |

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- 1 FALCON MEL 24 25 RIM PANICS
- 1 EPT/DOOR LOOP/EHINGE
- 1 FALCON 24 25 RIM PANIC
- 1 MULLION
- LOCKNETICS EMS-100 MOTION SENSOR
- 1 LOCKNETICS LP250RDB4
- 2 SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. PROPER CREDENTIAL TO SIGNAL MEL LATCH RETRACTION ON RHR LEAF.

EMS-100 MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-19-20

REVISION DATE: 10-19-20

ALLEGION™

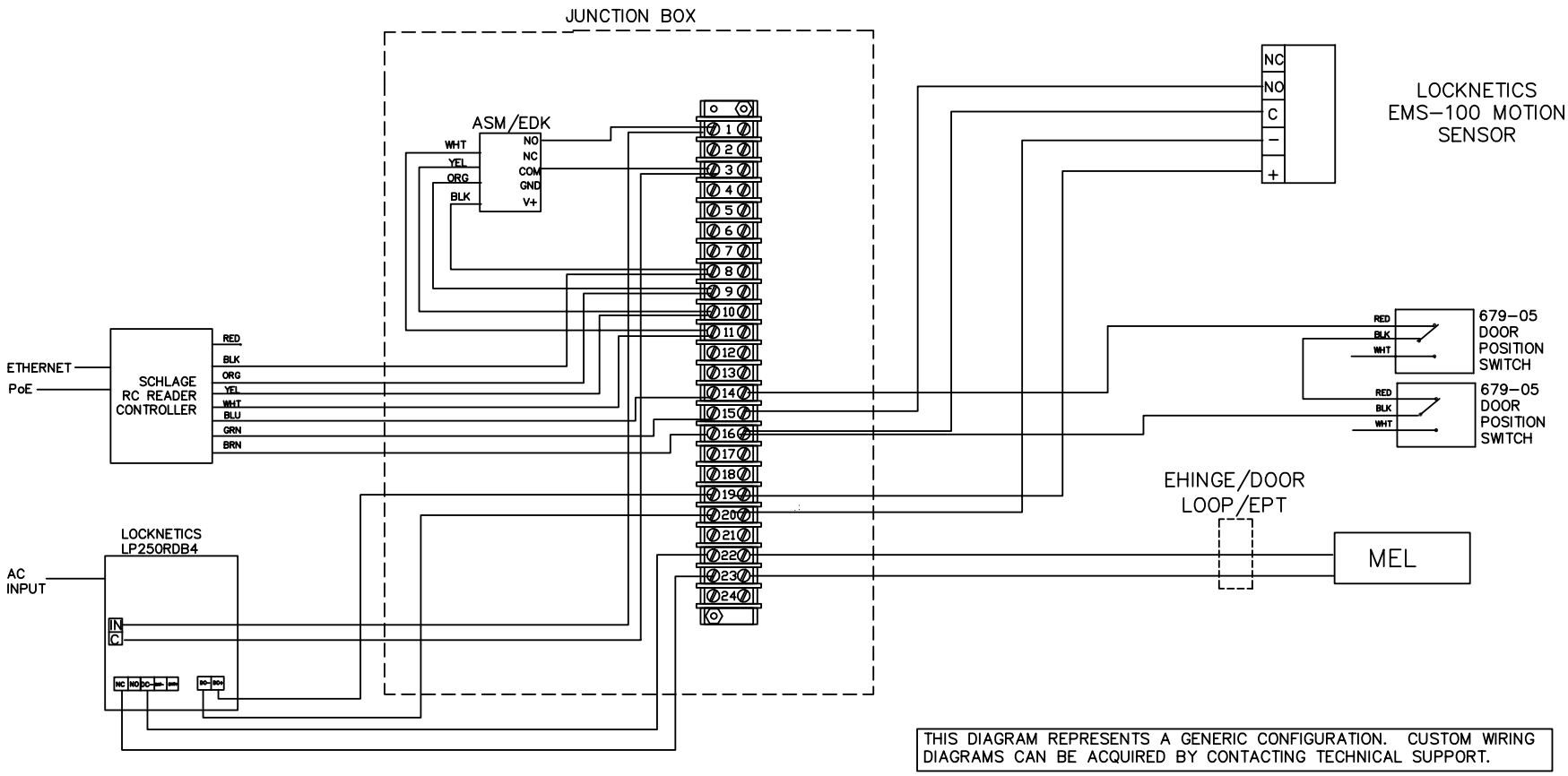
TITLE:
SCHLAGE RC CONTROLLER WITH MEL 24/25, MOTION SENSOR, DPS, LP250 PAIR OF DOORS

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113766R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- 1 FALCON MEL 24 25 RIM PANICS
- 1 EPT/DOOR LOOP/EHINGE
- 1 FALCON 24 25 RIM PANIC
- 1 MULLION
- LOCKNETICS EMS-100 MOTION SENSOR
- 1 LOCKNETICS LP250RDB4
- 2 SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. PROPER CREDENTIAL TO SIGNAL MEL LATCH RETRACTION ON RHR LEAF.

EMS–100 MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-19-20

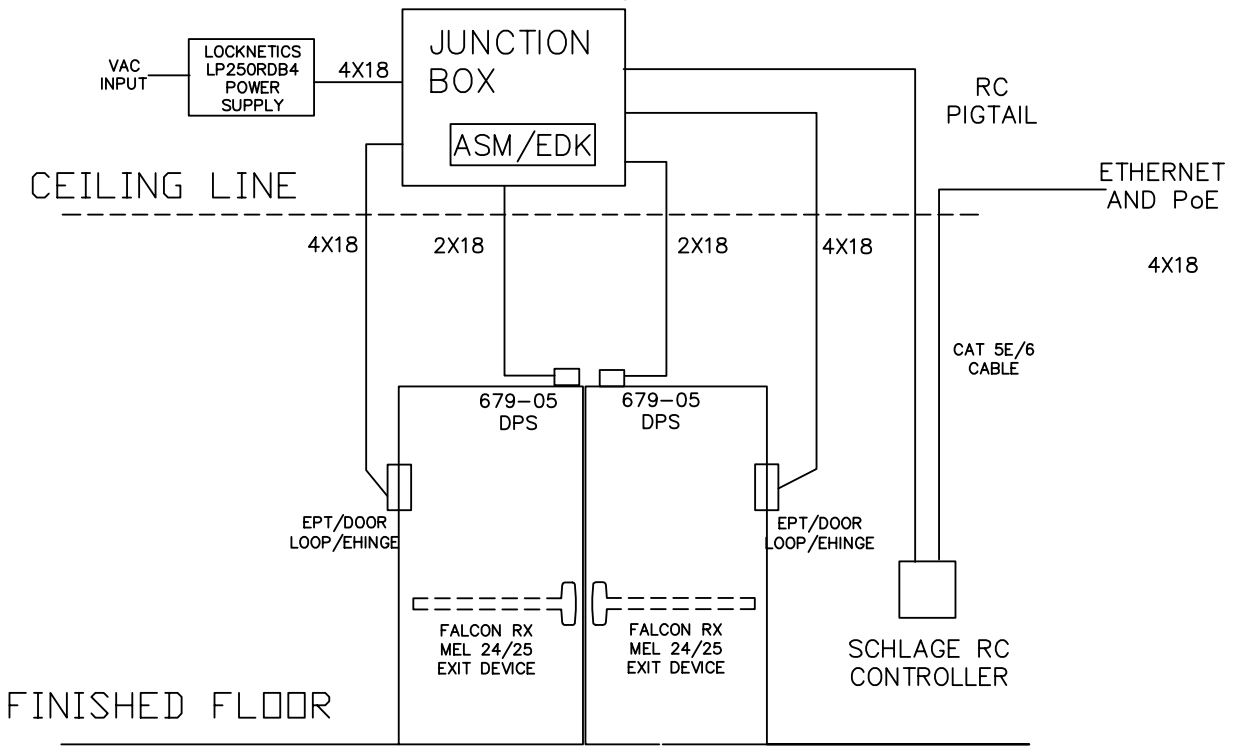
REVISION DATE: 10-19-20

ALLEGION™

TITLE:
SCHLAGE RC CONTROLLER WITH MEL 24/25, MOTION SENSOR, DPS, LP250 PAIR OF DOORS

| DRAWING TYPE: | DWG NO: | REV |
|---|---|---|
| WIRING DIAGRAM | 113766W | A |
| | DRAWN/CHECKED BY: DOVE/TAMARCHENKO | |

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- 2 FALCON RX MEL 24 25 PANICS
- 2 EPT/DOOR LOOP/EHINGE
- 1 LOCKNETICS LP250RDB4
- 2 SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. PROPER CREDENTIAL SIGNALS MEL LATCHES TO RETRACT ON BOTH PANICS.

RX SWITCH IN EACH PANIC TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-19-20

REVISION DATE: 10-19-20

ALLEGION™

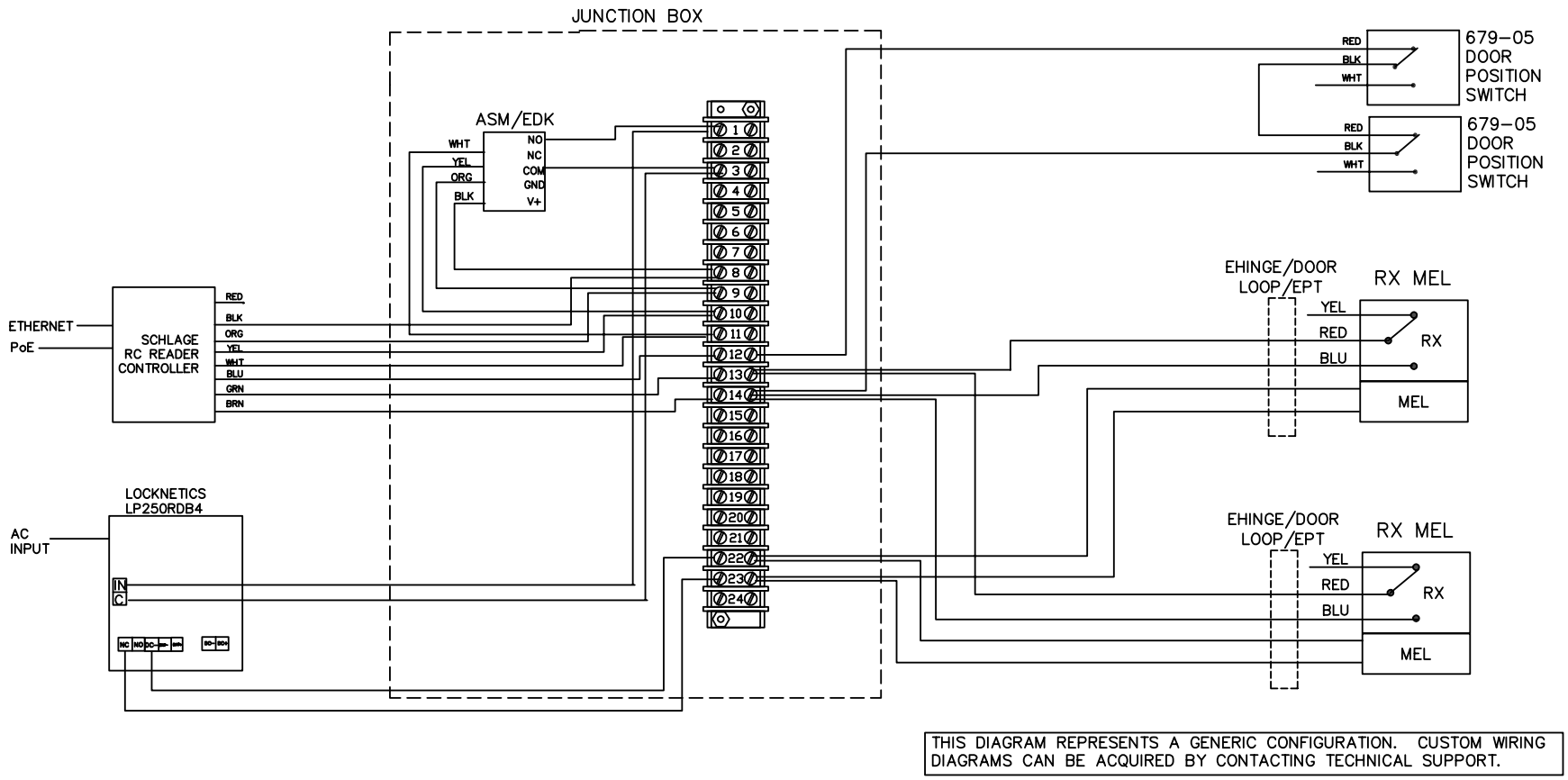
TITLE:
SCHLAGE RC CONTROLLER WITH PAIR RX MEL 24/25, DPS, LP250 PAIR OF DOORS

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113767R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- 2 FALCON RX MEL 24 25 PANICS
- 2 EPT/DOOR LOOP/EHINGE
- 1 LOCKNETICS LP250RDB4
- 2 SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. PROPER CREDENTIAL SIGNALS MEL LATCHES TO RETRACT ON BOTH PANICS.

RX SWITCH IN EACH PANIC TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-19-20

REVISION DATE: 10-19-20

ALLEGION™

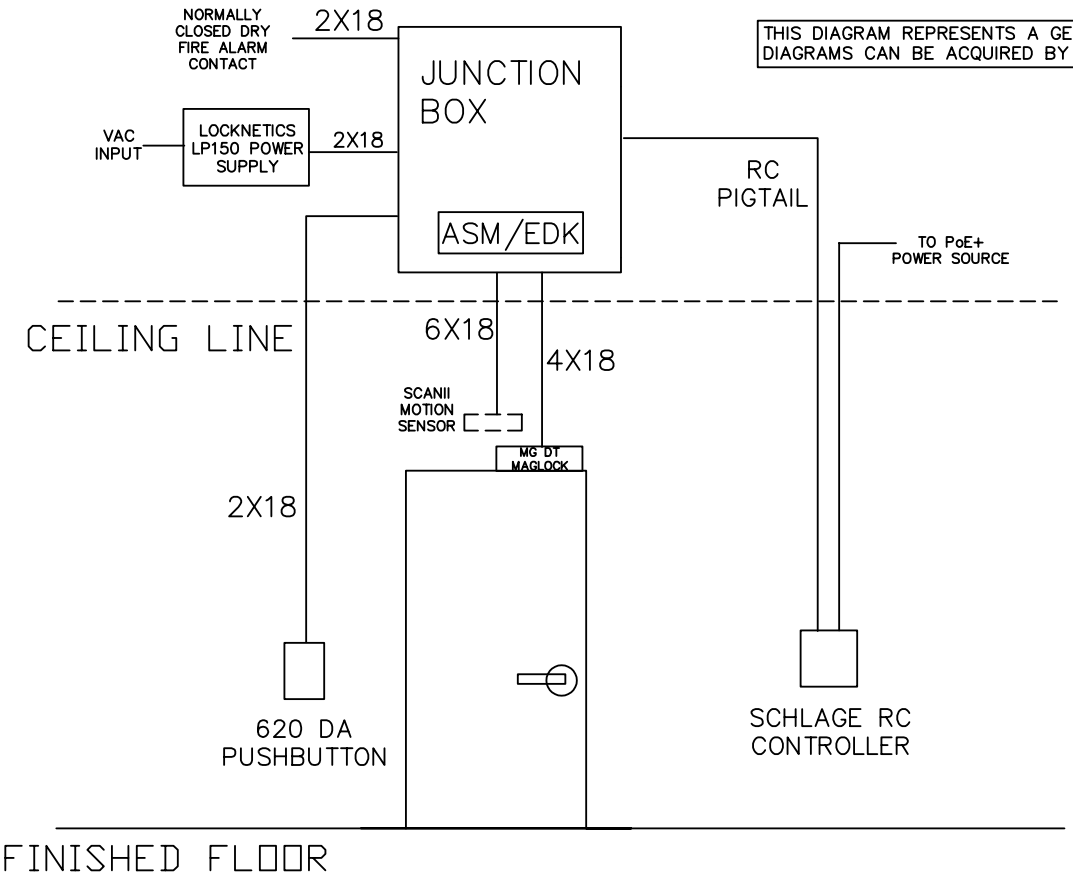
TITLE:
SCHLAGE RC CONTROLLER WITH PAIR RX MEL 24/25, DPS, LP250 PAIR OF DOORS

DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113767W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- SCHLAGE MAGLOCK IN-RUSH SUPPRESSOR
- LOCKNETICS MG DT MAGLOCK WITH INTEGRATED DPS
- LOCKNETICS LP150 POWER SUPPLY
- SCHLAGE SCANII MOTION SENSOR
- 620DA PUSHBUTTON
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL TO RELEASE MG MAGLOCK.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM AND RELEASE MG MAGLOCK.

620DA PUSHBUTTON TO RELEASE MAGLOCK. FIRE ALARM TO RELEASE MG MAGLOCK.

INSURE PoE+ POWER SOURCE APPROPRIATE FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-20-20

REVISION DATE: 10-20-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER WITH MAGLOCK-SINGLE DOOR

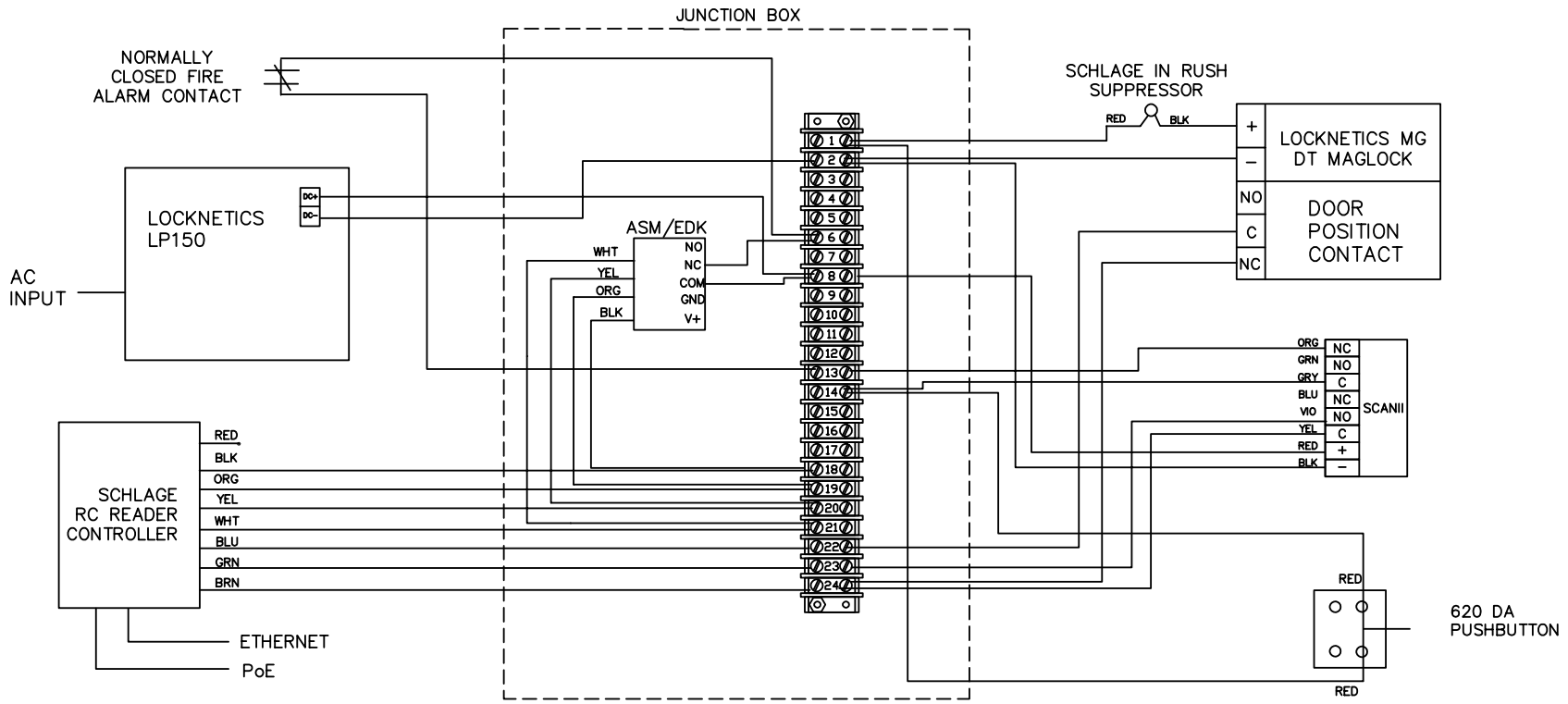
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113769R

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- SCHLAGE MAGLOCK IN-RUSH SUPPRESSOR
- LOCKNETICS MG DT MAGLOCK WITH INTEGRATED DPS
- LOCKNETICS LP150 POWER SUPPLY
- SCHLAGE SCANII MOTION SENSOR
- 620DA PUSHBUTTON
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL TO RELEASE MG MAGLOCK.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM AND RELEASE MG MAGLOCK.

620DA PUSHBUTTON TO RELEASE MAGLOCK. FIRE ALARM TO RELEASE MG MAGLOCK.

INSURE PoE+ POWER SOURCE APPROPRIATE FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-20-20

REVISION DATE: 10-20-20

ALLEGION™

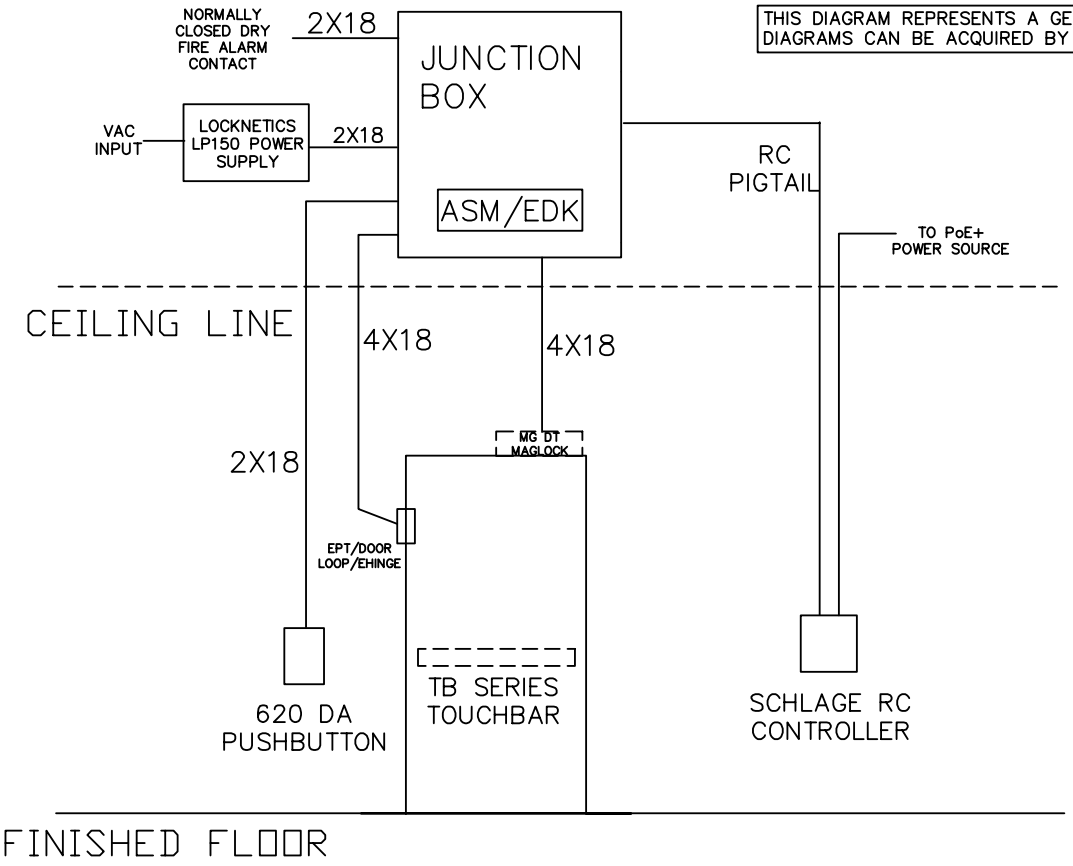
TITLE: SCHLAGE RC CONTROLLER WITH MAGLOCK-SINGLE DOOR

DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113769R

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- SCHLAGE MAGLOCK IN-RUSH SUPPRESSOR
- LOCKNETICS MG DT MAGLOCK WITH INTEGRATED DPS
- LOCKNETICS LP150 POWER SUPPLY
- LOCKNETICS TB TOUCH BAR
- EPT/DOOR LOOP/EHINGE
- 620DA PUSHBUTTON
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL TO RELEASE MG MAGLOCK OR EXIT BY PRESSING TB TOUCHBAR. TOUCHBAR TO ALSO NOTIFY ACCESS CONTROL SYSTEM OF AUTHORIZED ACCESS.

620DA PUSHBUTTON TO RELEASE MAGLOCK. FIRE ALARM TO RELEASE MG MAGLOCK.

INSURE PoE+ POWER SOURCE APPROPRIATE FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-20-20

REVISION DATE: 10-20-20

ALLEGION™

TITLE:
SCHLAGE RC CONTROLLER WITH MAGLOCK, TOUCH BAR -SINGLE DOOR

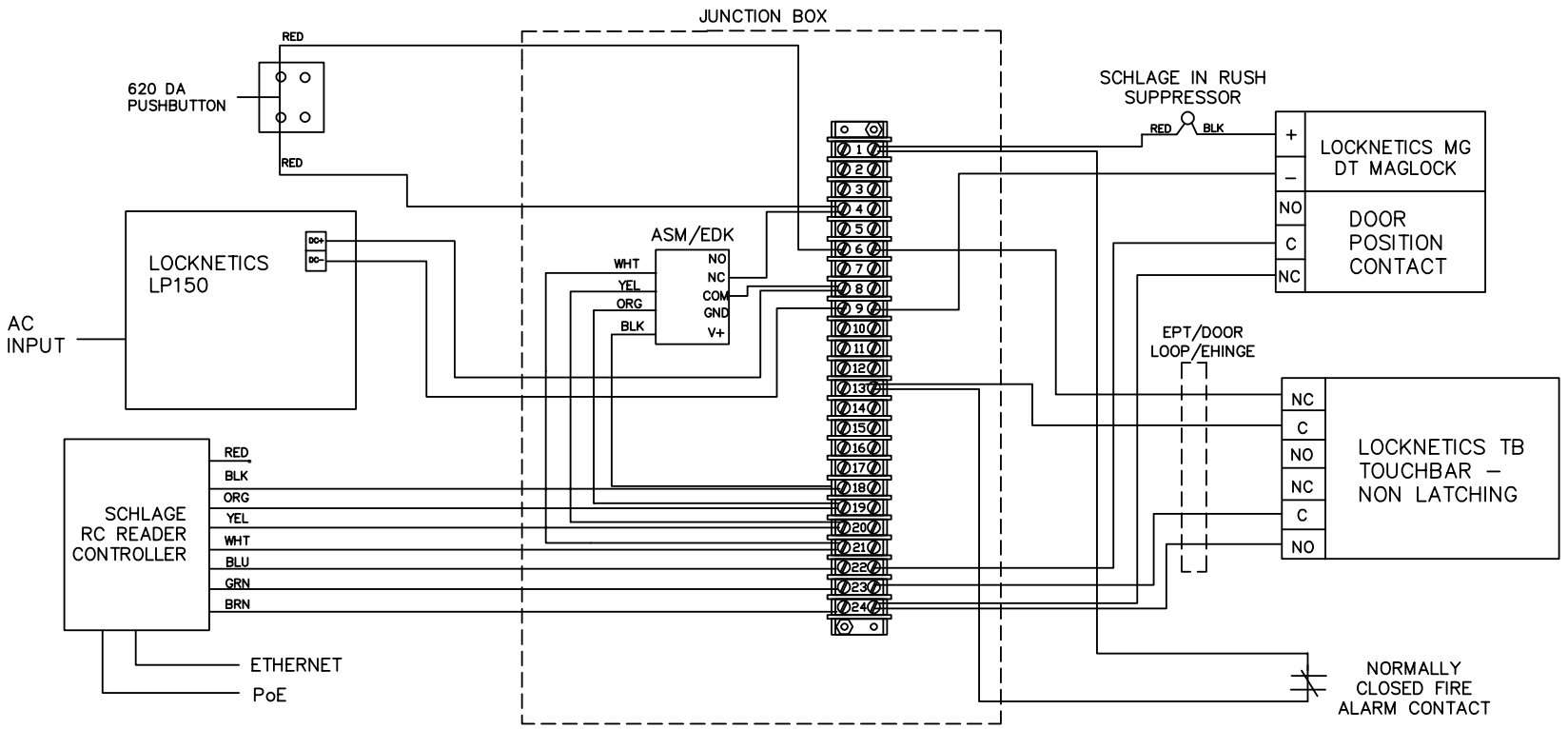
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113770R

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- SCHLAGE MAGLOCK IN-RUSH SUPPRESSOR
- LOCKNETICS MG DT MAGLOCK WITH INTEGRATED DPS
- LOCKNETICS LP150 POWER SUPPLY
- LOCKNETICS TB TOUCH BAR
- EPT/DOOR LOOP/EHINGE
- 620DA PUSHBUTTON
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL TO RELEASE MG MAGLOCK OR EXIT BY PRESSING TB TOUCHBAR. TOUCHBAR TO ALSO NOTIFY ACCESS CONTROL SYSTEM OF AUTHORIZED ACCESS.

620DA PUSHBUTTON TO RELEASE MAGLOCK. FIRE ALARM TO RELEASE MG MAGLOCK.

INSURE PoE+ POWER SOURCE APPROPRIATE FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-20-20

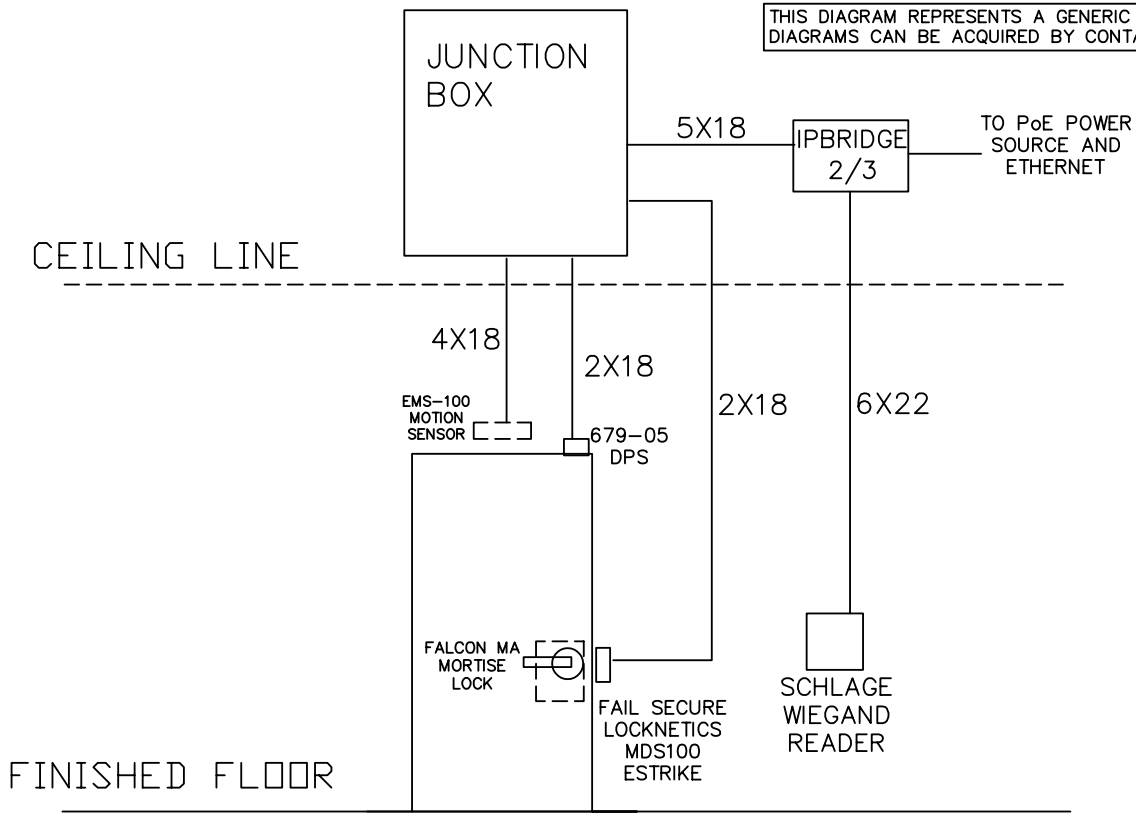
REVISION DATE: 10-20-20

ALLEGION™

TITLE:
SCHLAGE RC CONTROLLER WITH MAGLOCK, TOUCH BAR -SINGLE DOOR

| DRAWING TYPE: | DWG NO: | REV |
|---|---|---|
| WIRING DIAGRAM | 113770W | A |
| | DRAWN/CHECKED BY: DOVE/TAMARCHENKO | |

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE IPBRIDGE
- SCHLAGE R1 WIEGAND READER
- LOCKNETICS MDS100 STRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

VERIFY PoE+ POWER SOURCE ADEQUATE FOR LOAD.

DATE DRAWN: 10-21-20

REVISION DATE: 10-21-20

ALLEGION™

TITLE: ISONAS IP BRIDGE WITH ESTRIKE-SINGLE DOOR

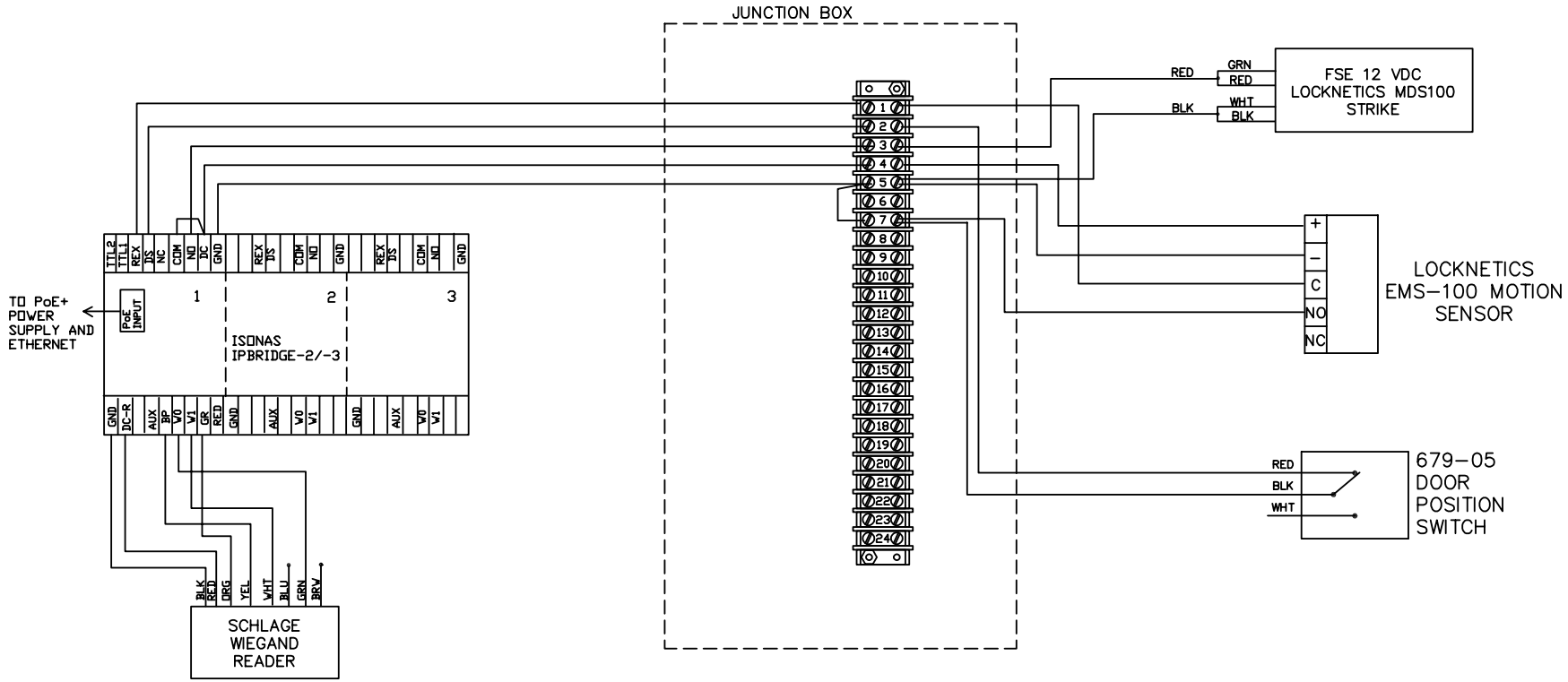
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113771R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

SCHLAGE IPBRIDGE
SCHLAGE WIEGAND READER
LOCKNETICS MDS100 STRIKE
LOCKNETICS EMS-100 MOTION SENSOR
SCHLAGE 679-05 DPS
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

VERIFY PoE+ POWER SOURCE ADEQUATE FOR LOAD.

DATE DRAWN: 10-21-20

REVISION DATE: 10-21-20

ALLEGION™

TITLE: ISONAS IP BRIDGE WITH ESTRIKE-SINGLE DOOR

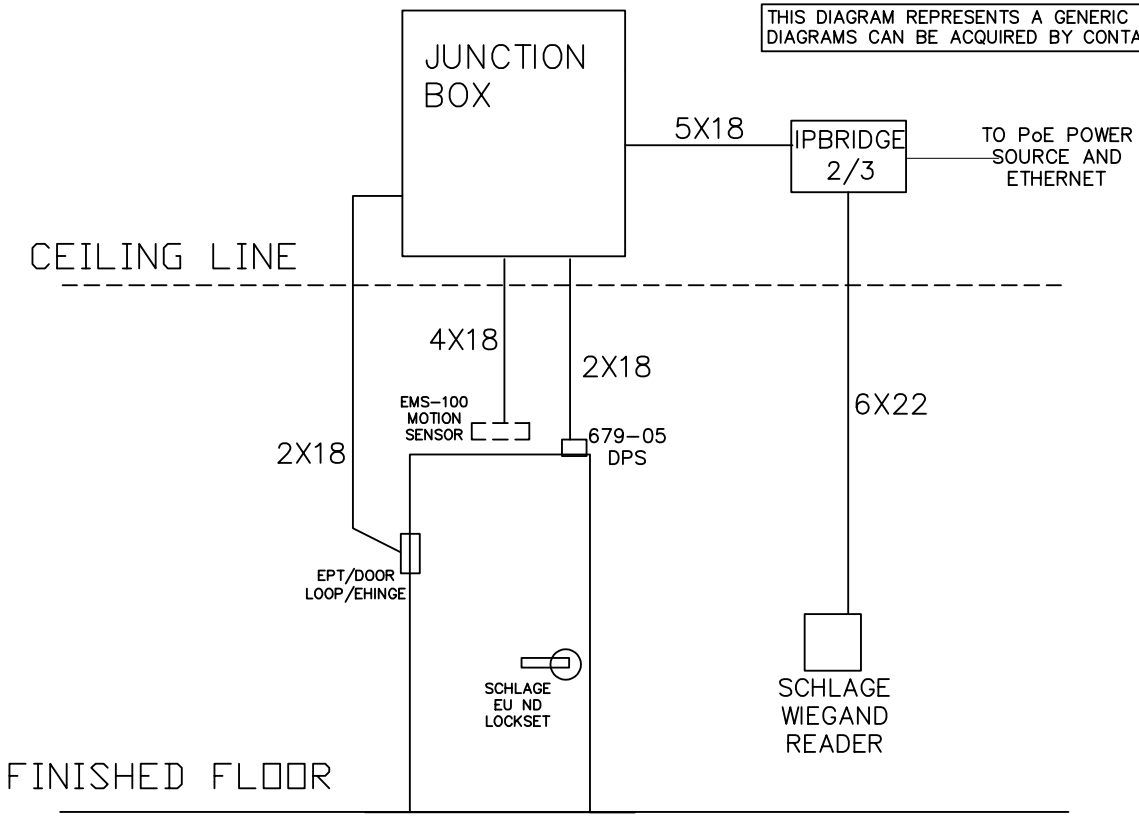
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113771W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- ISONAS IPBRIDGE
- SCHLAGE WIEGAND READER
- SCHLAGE EU ND LOCKSET
- LOCKNETICS EMS-100 MOTION SENSOR
- EPT/DOOR LOOP/EHINGE
- SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. VALID CREDENTIAL WILL UNLOCK EU ND LOCKSET.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

VERIFY PoE+ POWER SOURCE ADEQUATE FOR LOAD.

DATE DRAWN: 10-21-20

REVISION DATE: 10-21-20

ALLEGION™

TITLE: ISONAS IP BRIDGE WITH ELOCK-SINGLE DOOR

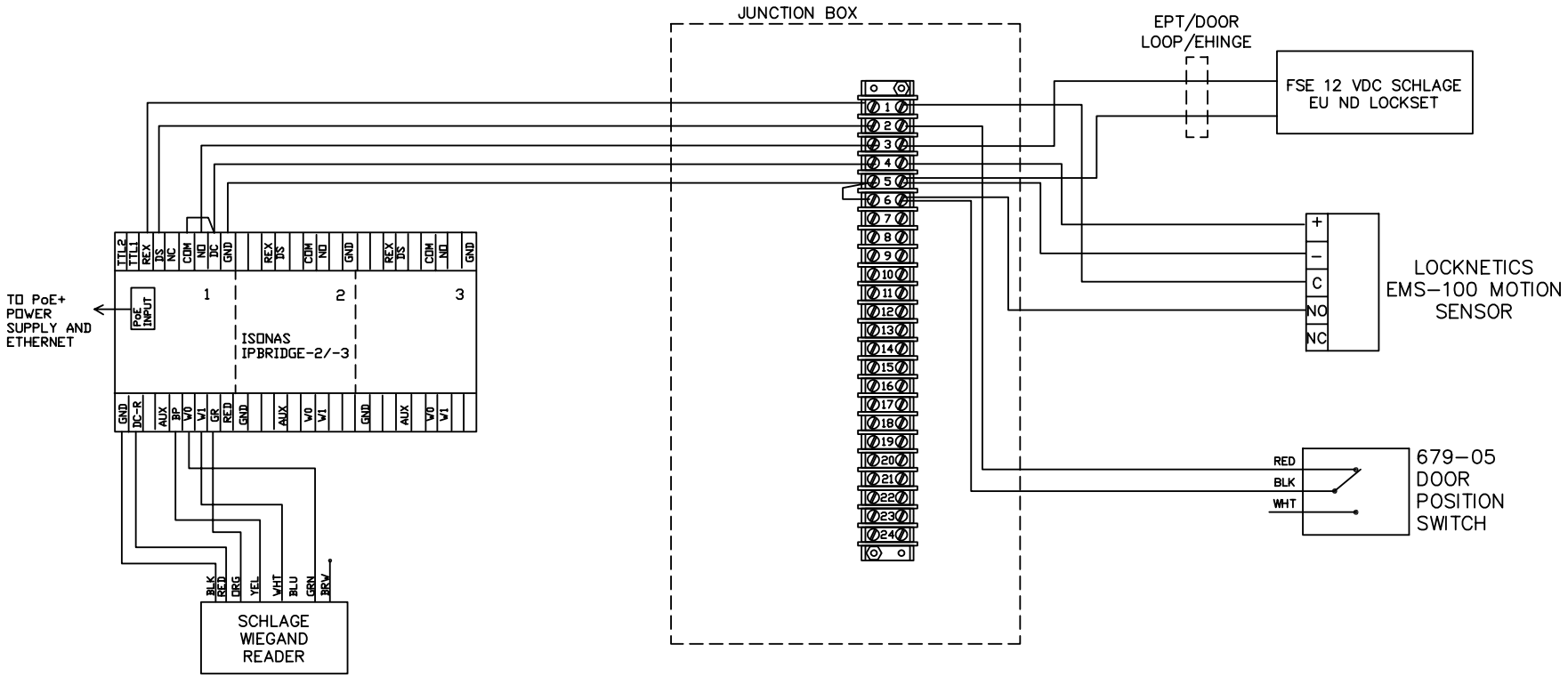
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113772R

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

ISONAS IPBRIDGE
SCHLAGE WIEGAND READER
SCHLAGE EU ND LOCKSET
LOCKNETICS EMS-100 MOTION SENSOR
SCHLAGE 679-05 DPS
EPT/DOOR LOOP/EHINGE
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. VALID CREDENTIAL WILL UNLOCK EU ND LOCKSET.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

VERIFY PoE+ POWER SOURCE ADEQUATE FOR LOAD.

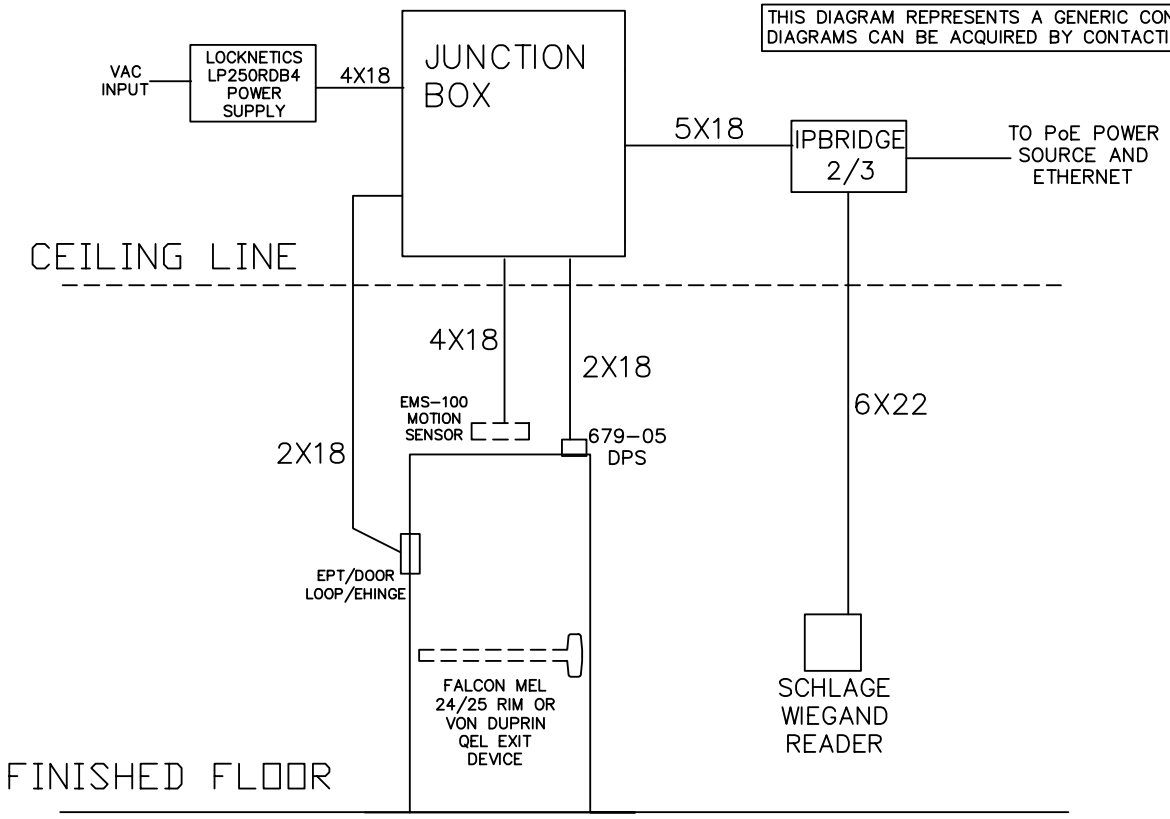
DATE DRAWN: 10-21-20
REVISION DATE: 10-21-20

ALLEGION™

TITLE: ISONAS IP BRIDGE WITH ELOCK-SINGLE DOOR

DRAWING TYPE: WIRING DIAGRAM
DWG NO: 113772W
REV: A
DRAWN/CHECKED BY: DOVE/TAMARCHENKO

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
ISONAS IPBRIDGE
SCHLAGE WIEGAND READER
FALCON MEL24/25 OR VON DUPRIN QEL PANIC
LOCKNETICS LP250RDB4
LOCKNETICS EMS-100 MOTION SENSOR
SCHLAGE 679-05 DPS
EPT/DOOR LOOP/EHINGE
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. VALID CREDENTIAL WILL CAUSE MEL OR QEL TO RETRACT.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

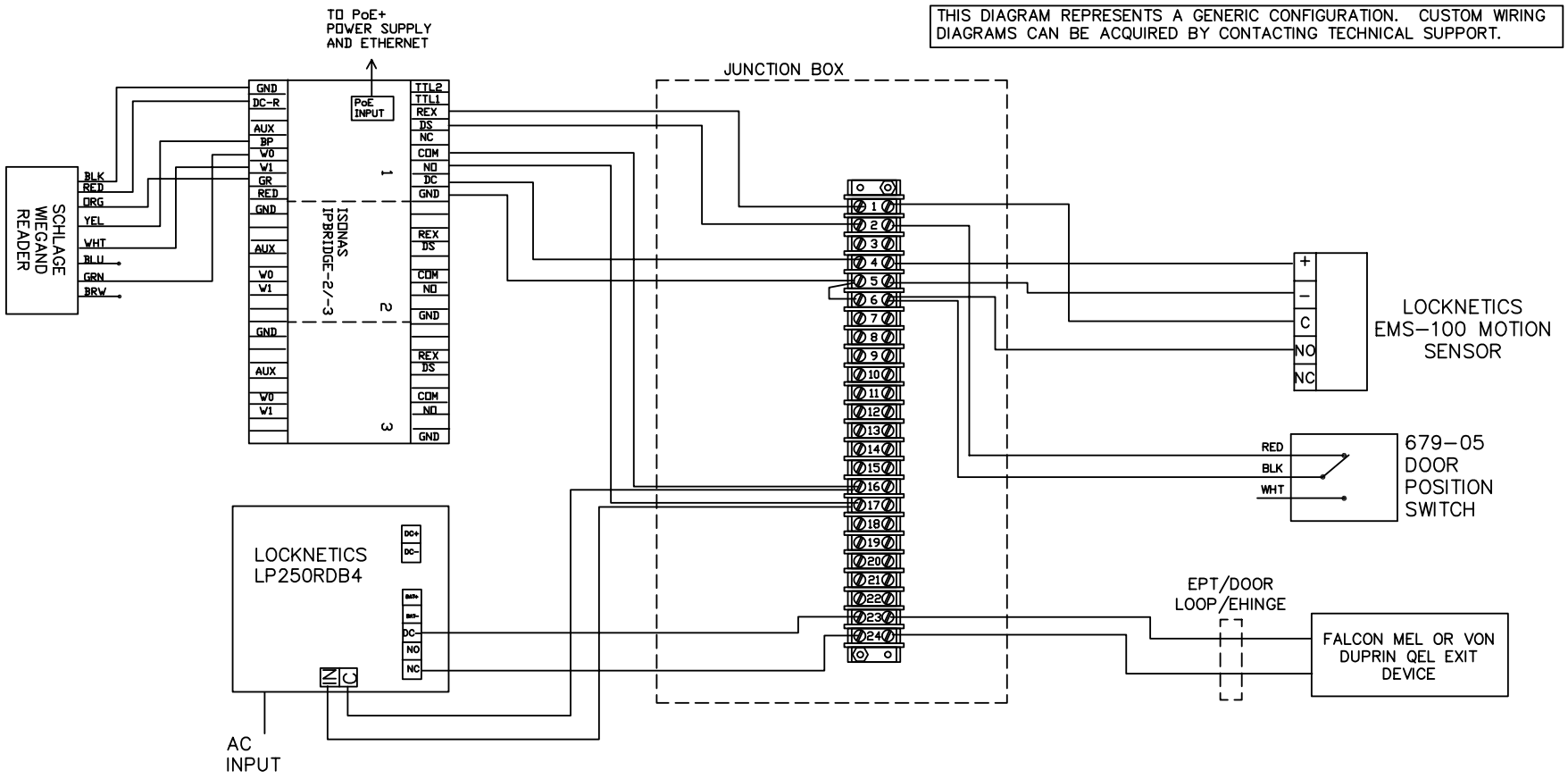
VERIFY PoE+ POWER SOURCE ADEQUATE FOR LOAD.

DATE DRAWN: 10-21-20
REVISION DATE: 10-21-20

ALLEGION™

TITLE: ISONAS IP BRIDGE WITH QEL/MEL -SINGLE DOOR

DRAWING TYPE: RISER DIAGRAM
DWG NO: 113773R
REV: A
DRAWN/CHECKED BY: DOVE/TAMARCHENKO




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

ISONAS IPBRIDGE
SCHLAGE WIEGAND READER
FALCON MEL24/25 OR VON DUPRIN QEL PANIC
LOCKNETICS LP250RDB4
LOCKNETICS EMS-100 MOTION SENSOR
SCHLAGE 679-05 DPS
EPT/DOOR LOOP/EHINGE
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. VALID CREDENTIAL WILL CAUSE MEL OR QEL TO RETRACT.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

VERIFY PoE+ POWER SOURCE ADEQUATE FOR LOAD.

DATE DRAWN: 10-21-20

REVISION DATE: 10-21-20

ALLEGION™

TITLE: ISONAS IP BRIDGE WITH QEL/MEL -SINGLE DOOR

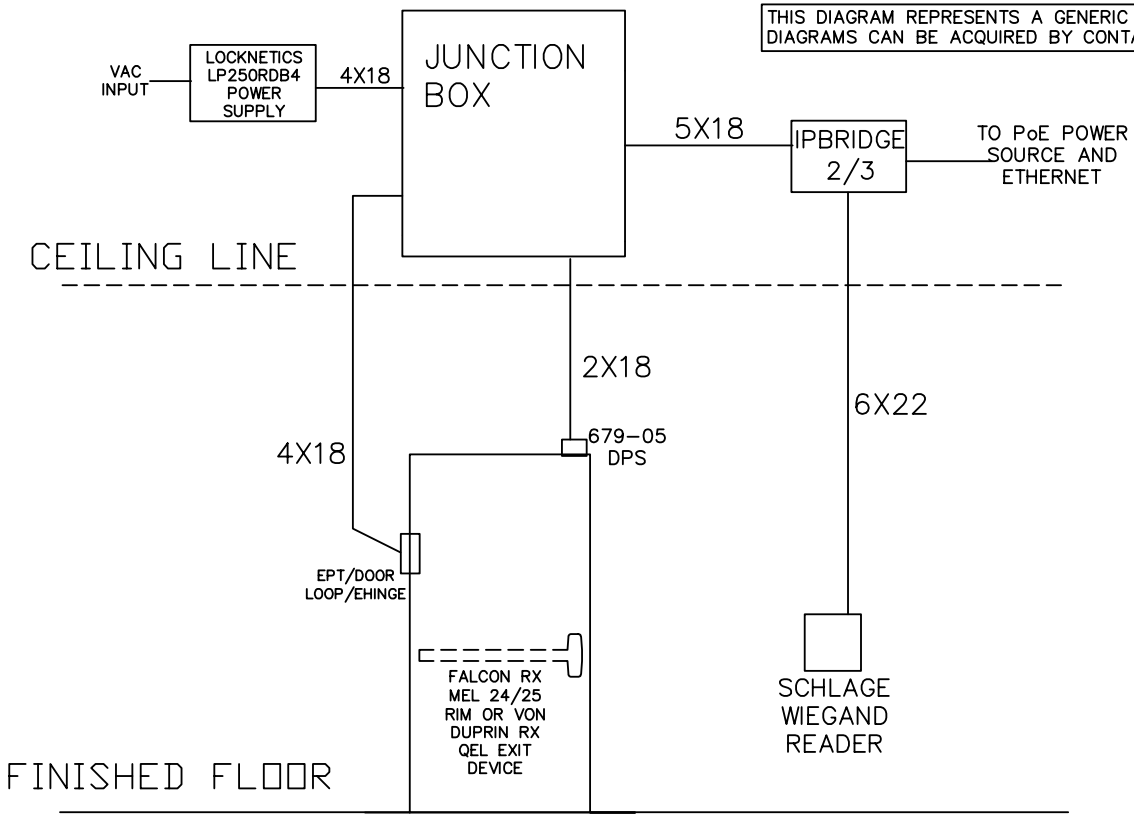
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113773W

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- ISONAS IPBRIDGE
- SCHLAGE WIEGAND READER
- FALCON RX MEL 24/25 OR VON DUPRIN RX QEL PANIC
- LOCKNETICS LP250RDB4
- EPT/DOOR LOOP/EHINGE
- SCHLAGE 679-05 DPS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. VALID CREDENTIAL WILL CAUSE MEL OR QEL TO RETRACT.

RX IN PANIC TO SHUNT DOOR FORCED ALARM.

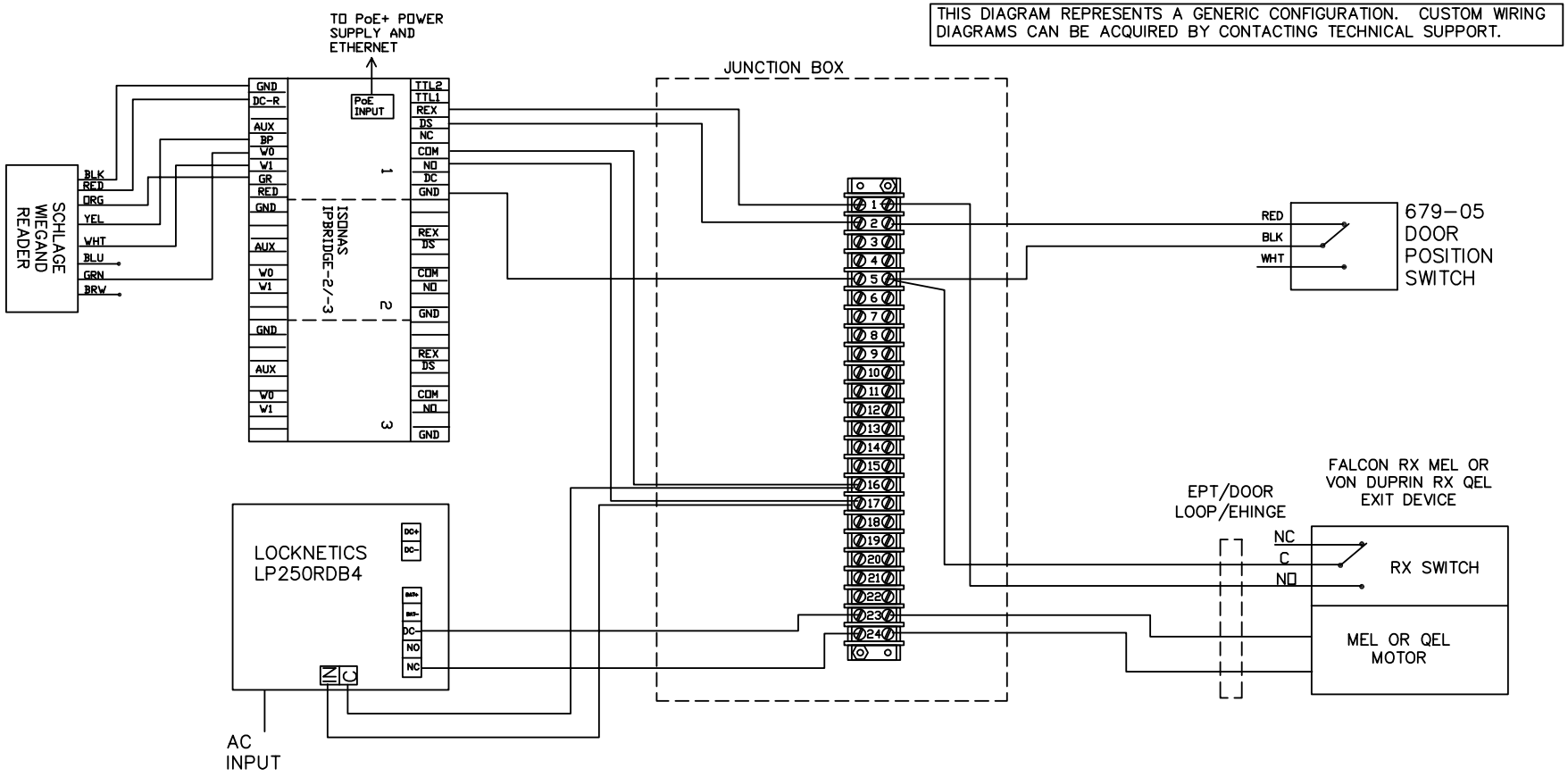
FREE EGRESS AT ALL TIMES.
VERIFY PoE+ POWER SOURCE ADEQUATE FOR LOAD.

DATE DRAWN: 10-21-20
REVISION DATE: 10-21-20

ALLEGION™

TITLE: ISONAS IP BRIDGE WITH RX QEL/RX MEL -SINGLE DOOR

DRAWING TYPE: RISER DIAGRAM
DWG NO: 113774R
REV: A
DRAWN/CHECKED BY: DOVE/TAMARCHENKO




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

ISONAS IPBRIDGE
SCHLAGE WIEGAND READER
FALCON RX MEL 24/25 OR VON DUPRIN RX QEL PANIC
LOCKNETICS LP250RDB4
EPT/DOOR LOOP/EHINGE
SCHLAGE 679-05 DPS
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. VALID CREDENTIAL WILL CAUSE MEL OR QEL TO RETRACT.

RX IN PANIC TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

VERIFY PoE+ POWER SOURCE ADEQUATE FOR LOAD.

DATE DRAWN: 10-21-20

REVISION DATE: 10-21-20

ALLEGION™

TITLE: ISONAS IP BRIDGE WITH RX QEL/RX MEL -SINGLE DOOR

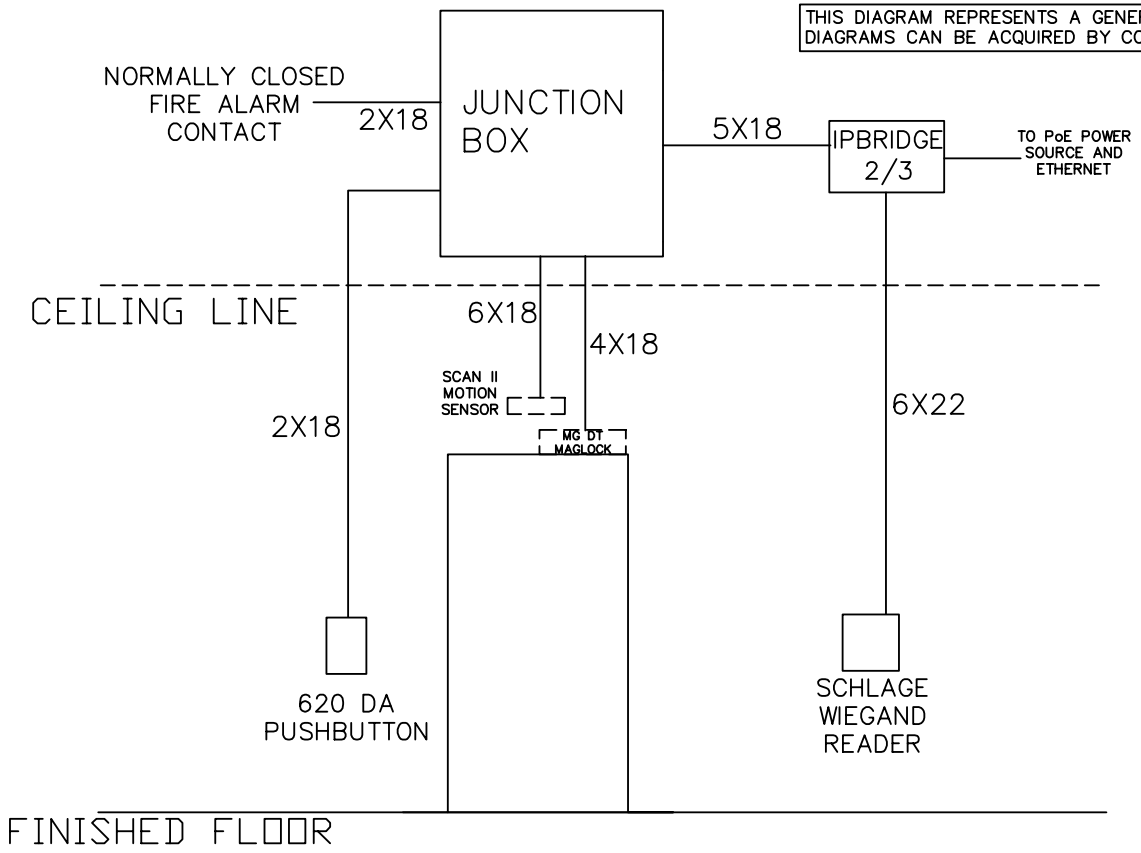
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113774W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
ISONAS IPBRIDGE
SCHLAGE WIEGAND READER
MAGLOCK IN RUSH SUPPRESSOR
LOCKNETICS MG DT MAG LOCK WITH INTEGRATED DPS
SCHLAGE SCANII MOTION SENSOR
LOCKNETICS 620DA PUSHBUTTON JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. VALID CREDENTIAL WILL CAUSE MG MAGLOCK TO RELEASE.

SCAN II MOTION SENSOR OR 620DA OR TO SHUNT DOOR FORCED ALARM AND RELEASE DOOR FOR FREE EGRESS.

FIRE ALARM TO RELEASE MG MAGLOCK FOR FREE ACCESS FROM EITHER SIDE.

FREE EGRESS AT ALL TIMES.

VERIFY PoE+ POWER SOURCE ADEQUATE FOR LOAD.

DATE DRAWN: 10-21-20

REVISION DATE: 10-21-20

ALLEGION™

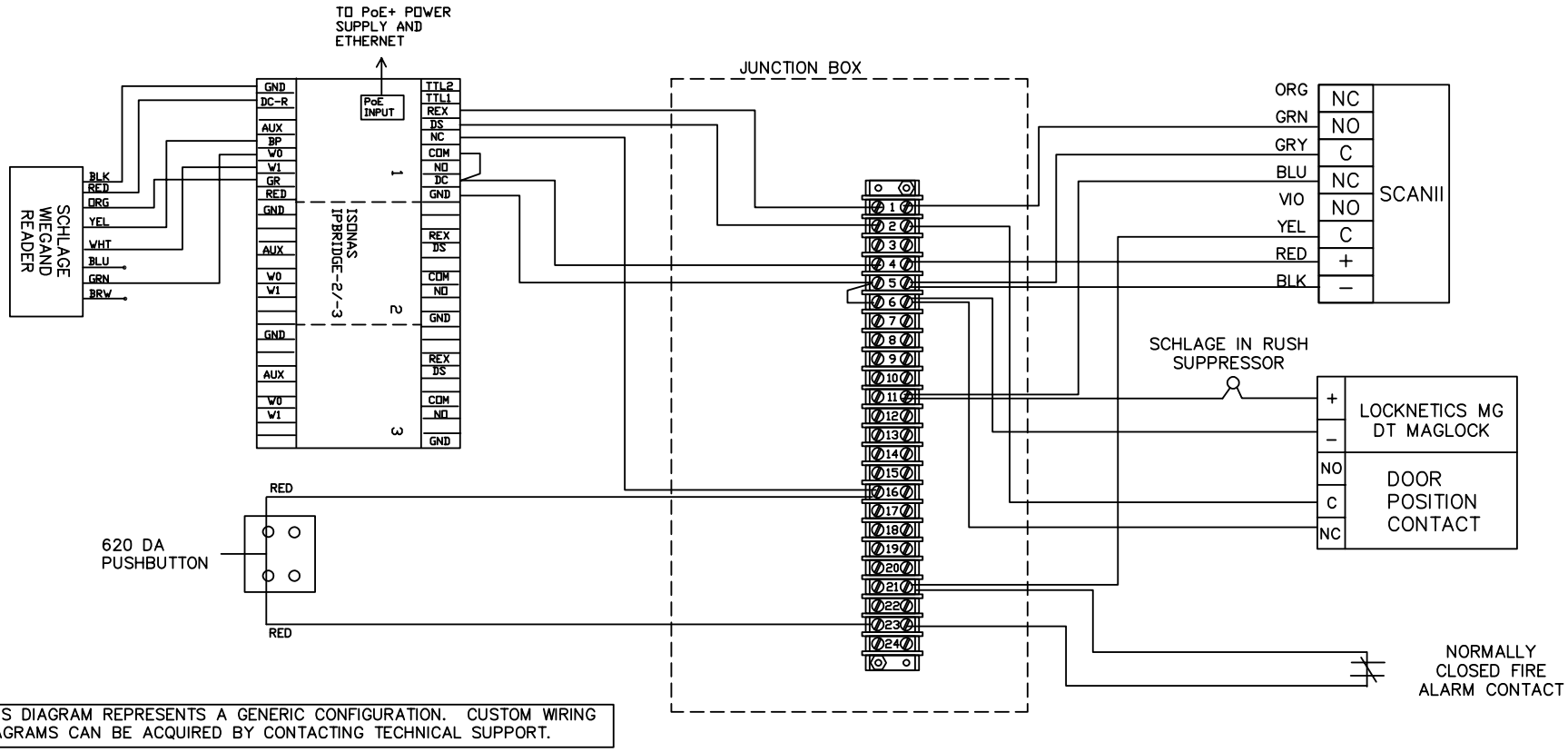
TITLE: ISONAS IP BRIDGE WITH MG MAGLOCK -SINGLE DOOR

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113775R

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

ISONAS IPBRIDGE
SCHLAGE WIEGAND READER
MAGLOCK IN RUSH SUPPRESSOR
LOCKNETICS MG DT MAG LOCK WITH INTEGRATED DPS
SCHLAGE SCANII MOTION SENSOR
LOCKNETICS 620DA PUSHBUTTON
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. VALID CREDENTIAL WILL CAUSE MG MAGLOCK TO RELEASE.

SCAN II MOTION SENSOR OR 620DA OR TO SHUNT DOOR FORCED ALARM AND RELEASE DOOR FOR FREE EGRESS.

FIRE ALARM TO RELEASE MG MAGLOCK FOR FREE ACCESS FROM EITHER SIDE.

FREE EGRESS AT ALL TIMES.

VERIFY PoE+ POWER SOURCE ADEQUATE FOR LOAD.

DATE DRAWN: 10-21-20

REVISION DATE: 10-21-20

ALLEGION™

TITLE: ISONAS IP BRIDGE WITH MG MAGLOCK -SINGLE DOOR

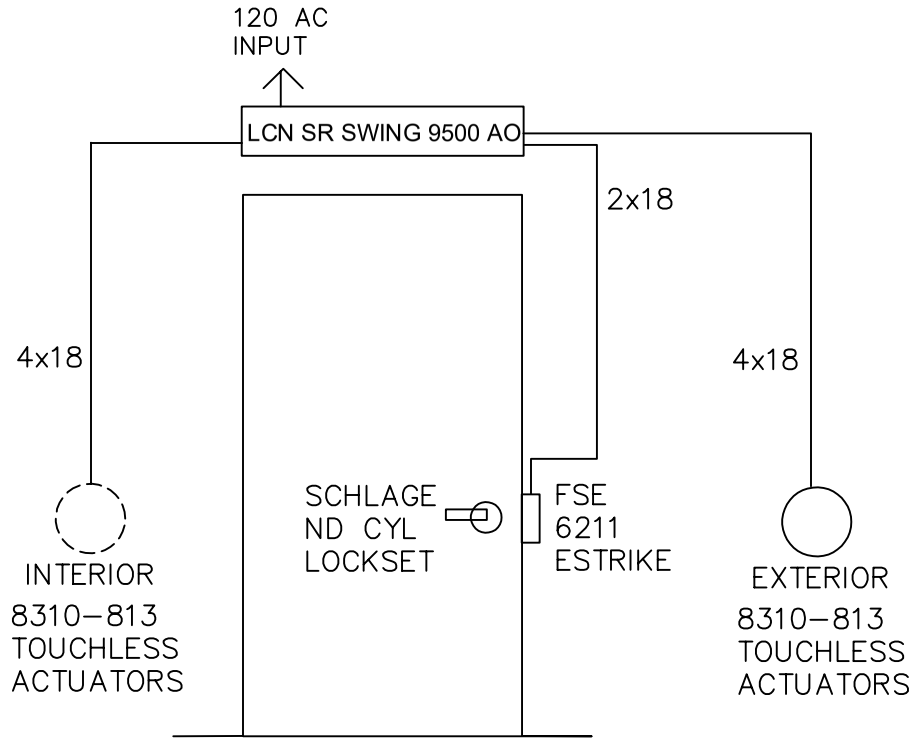
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113775W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
1 LCN 9500 SR SWING AO
2 LCN 8310-813 TOUCHLESS ACTUATOR
1 VD FSE 6211 ESTRIKE

TYPE
INTERIOR DOOR WITH VD ESTRIKE, LCN SR SWING AO AND TOUCHLESS ACTUATORS INTERIOR AND EXTERIOR

OPERATION:

EXTERIOR WAVING HAND IN FRONT OF 8310–813 TOUCHLESS ACTUATOR TO SIGNAL LCN SR SWING AO TO OPEN DOOR AND RELEASE 6211 ESTRIKE. MAY BE OPENED MANUALLY VIA ND CYL LOCK

INTERIOR WAVING HAND IN FRONT OF 8310–813 TOUCHLESS ACTUATOR TO SIGNAL LCN SR SWING AO TO RELEASE 6211 ESTRIKE AND OPEN DOOR. MAY BE OPENED VIA ND CYL LOCK.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE LCN SR SWING ENCLOSURE

DATE DRAWN: 04-03-20
REVISION DATE: 04-03-20

ALLEGION™

TITLE: INTERIOR DOOR WITH VD ESTRIKE, LCN SR SWING AO AND TOUCHLESS ACTUATORS INTERIOR AND EXTERIOR

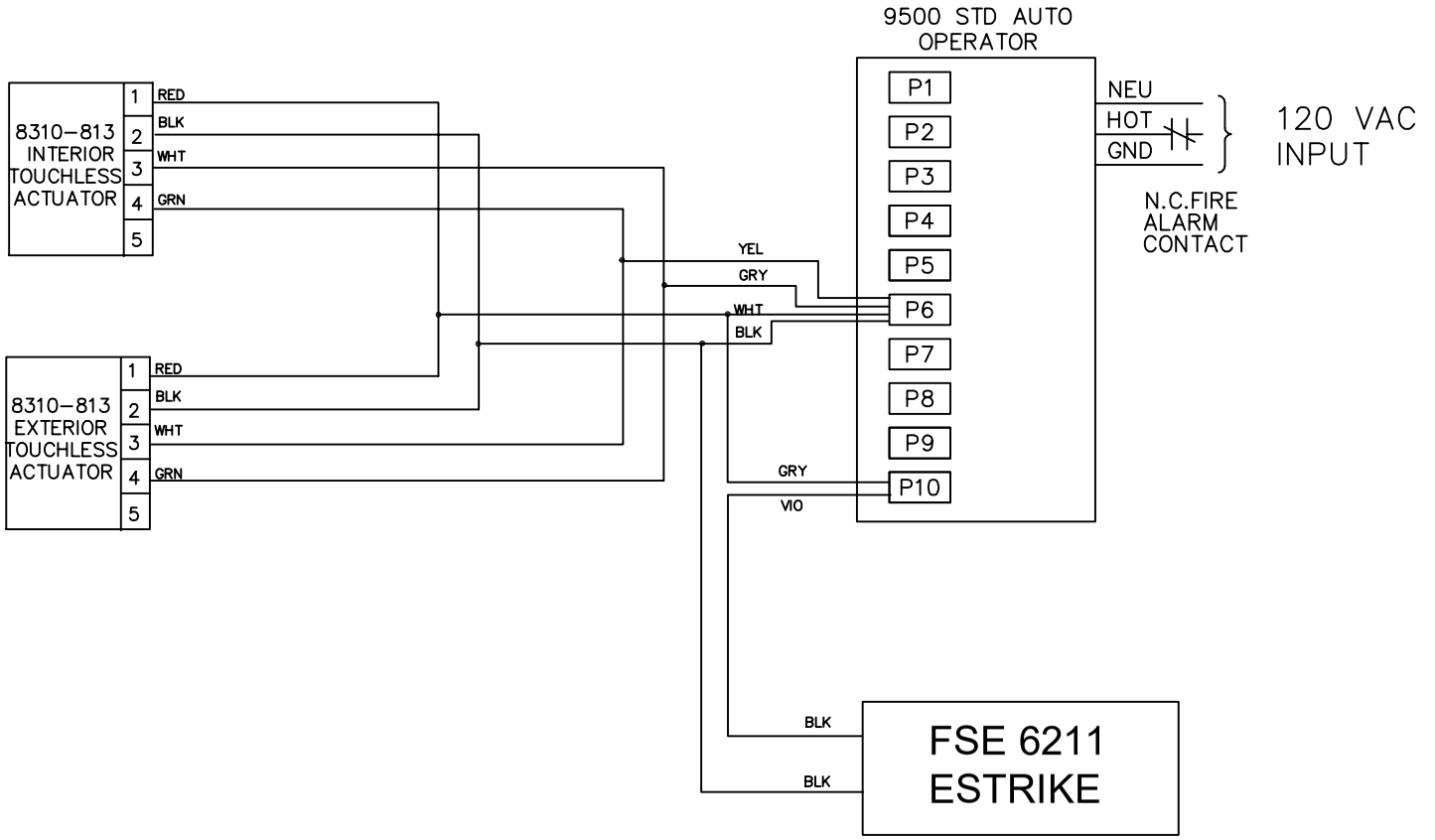
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113517 R

REV: A

DRAWN/CHECKED BY: B DOVE/J WEISS

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 LCN 9500 SR SWING AO
2 LCN 8310-813 TOUCHLESS ACTUATOR
1 VD FSE 6211 ESTRIKE

TYPE
INTERIOR DOOR WITH VD ESTRIKE, LCN SR SWING AO AND TOUCHLESS ACTUATORS INTERIOR AND EXTERIOR

OPERATION:

EXTERIOR WAVING HAND IN FRONT OF 8310–813 TOUCHLESS ACTUATOR TO SIGNAL LCN SR SWING AO TO OPEN DOOR AND RELEASE 6211 ESTRIKE. MAY BE OPENED MANUALLY VIA ND CYL LOCK

INTERIOR WAVING HAND IN FRONT OF 8310–813 TOUCHLESS ACTUATOR TO SIGNAL LCN SR SWING AO TO RELEASE 6211 ESTRIKE AND OPEN DOOR. MAY BE OPENED VIA ND CYL LOCK.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE IN THE LCN SR SWING ENCLOSURE

DATE DRAWN: 04-03-20
REVISION DATE: 04-03-20

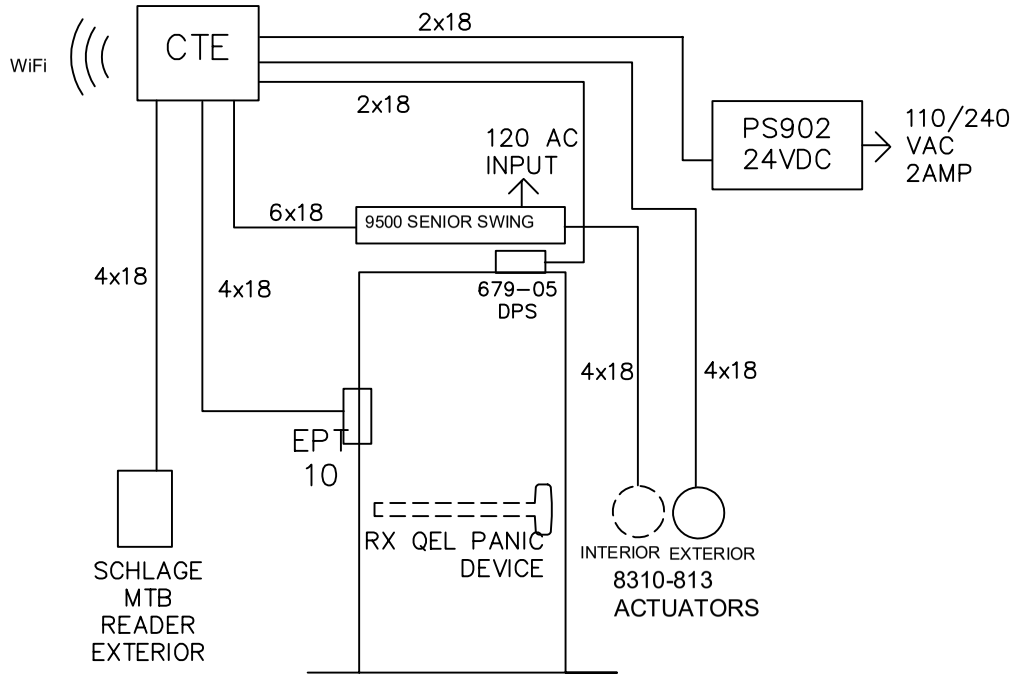
ALLEGION™

TITLE: INTERIOR DOOR WITH VD ESTRIKE, LCN SR SWING AO AND TOUCHLESS ACTUATORS INTERIOR AND EXTERIOR

DRAWING TYPE: WIRING DIAGRAM
DWG NO: 113517 W
DRAWN BY: B DOVE/J WEISS
REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

TO ENGAGE™ CLOUD OR INTEGRATED SOFTWARE ALLIANCE MEMBER(SAM) SYSTEM; WIFI OR BLUETOOTH




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 1 CTE x MTB SCHLAGE READER
- 1 VD QEL PANIC
- 1 EPT 10
- 1 PS902
- 1 679-05 DPS
- 1 LCN 9500 SENIOR SWING - SINGLE DOOR
- 2 8310-813 TOUCHLESS ACTUATORS

TYPE
CTE WITH QEL AND PS902 WITH 9500 SENIOR SWING AO, 8310-813 TOUCHLESS ACTUATORS

**OPERATION:**
SCHLAGE MTB READER TO SIGNAL EL TO RETRACT THE ELECTRIC LATCH ON VON DUPRIN RX QEL PANIC BAR AND ENABLE EXTERIOR ACTUATOR TO ALLOW ENTRY. FREE EGRESS ALWAYS PERMITTED. INTERIOR ACTUATOR ALWAYS ACTIVE.

ADDITIONAL WIRING WILL BE REQUIRED THAT IS NOT SHOWN HERE.

CTE TO COMMUNICATE TO ENGAGE™ CLOUD OR SOFTWARE ALLIANCE MEMBER(SAM)SYSTEM

THIS IS NOT A FIRE RATED APPLICATION

DATE DRAWN: 03-27-20
REVISION DATE: 04-03-20

ALLEGION™

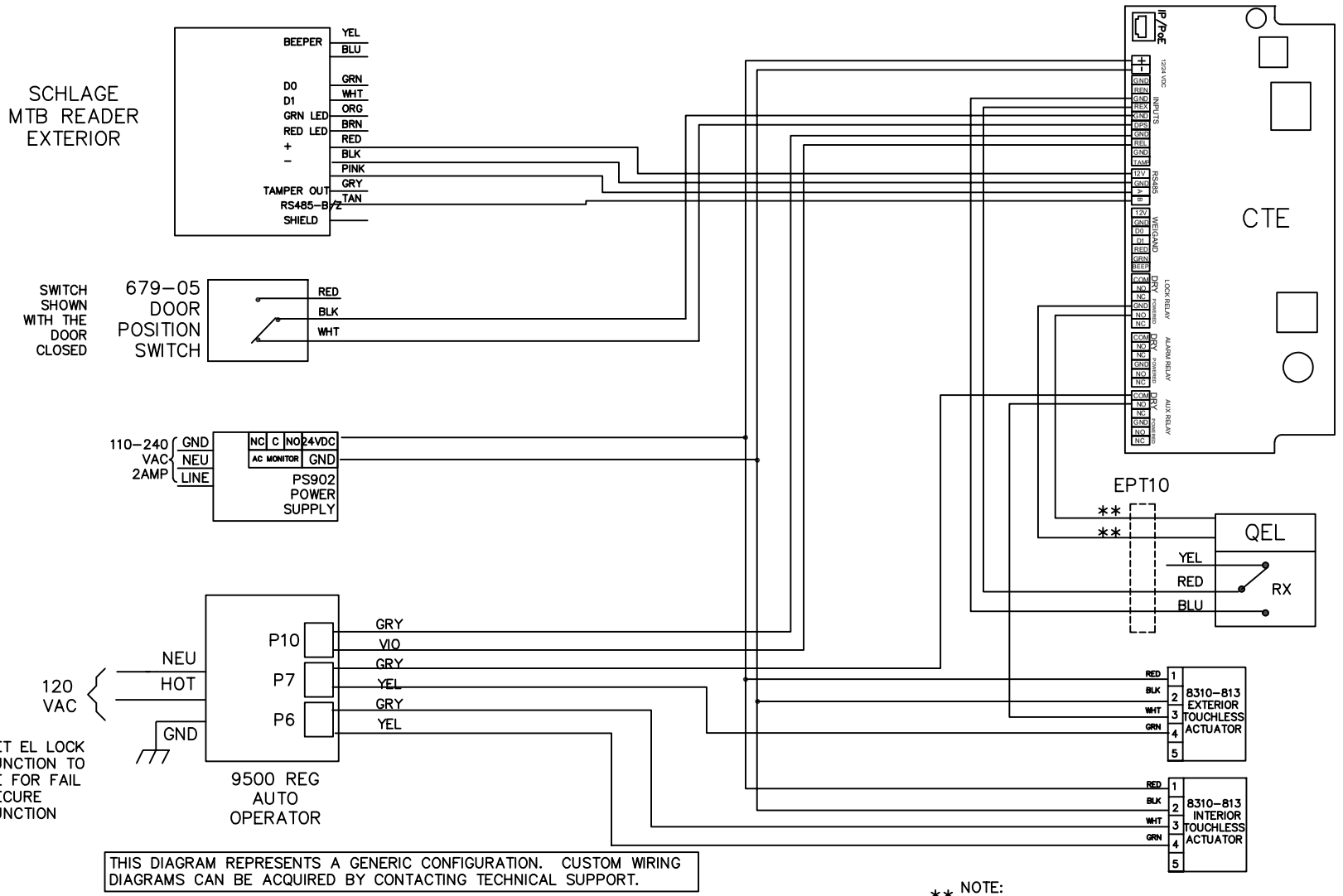
TITLE: CTE WITH QEL AND PS902 WITH 9500 SENIOR SWING AO, 8310-813 TOUCHLESS ACTUATORS

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113518 R

DRAWN BY/CHECKED BY: B DOVE/J WEISS

REV A




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

** NOTE:
USE #18 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS902

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
- 1 CTE x MTB SCHLAGE READER
- 1 VD QEL PANIC
- 1 EPT 10
- 1 PS902
- 1 679-05 DPS
- 1 LCN 9500 SENIOR SWING - SINGLE DOOR
- 2 8310-813 TOUCHLESS ACTUATORS

TYPE
CTE WITH QEL AND PS902 WITH 9500 SENIOR SWING AO, 8310-813 TOUCHLESS ACTUATORS

OPERATION:
SCHLAGE MTB READER TO SIGNAL EL TO RETRACT THE ELECTRIC LATCH ON VON DUPRIN RX QEL PANIC BAR AND ENABLE EXTERIOR ACTUATOR TO ALLOW ENTRY. FREE EGRESS ALWAYS PERMITTED. INTERIOR ACTUATOR ALWAYS ACTIVE.

ADDITIONAL WIRING WILL BE REQUIRED THAT IS NOT SHOWN HERE.

CTE TO COMMUNICATE TO ENGAGE™ CLOUD OR SOFTWARE ALLIANCE MEMBER(SAM)SYSTEM

THIS IS NOT A FIRE RATED APPLICATION

DATE DRAWN: 03-27-20
REVISION DATE: 04-03-20

ALLEGION™

TITLE: CTE WITH QEL AND PS902 WITH 9500 SENIOR SWING AO, 8310-813 TOUCHLESS ACTUATORS

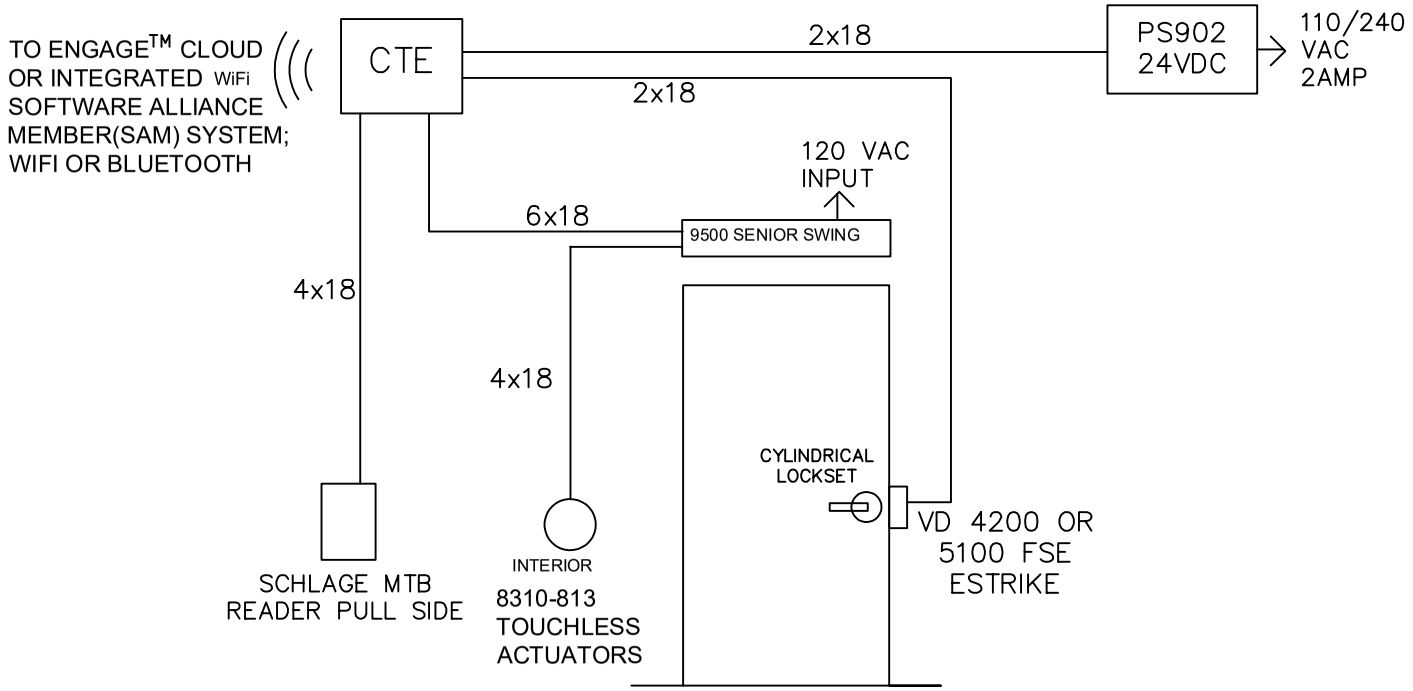
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113518W

REV: A

DRAWN/CHECKED BY: B DOVE /J WEISS

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 1 CTE
- 1 MTB SCHLAGE READER
- 1 VD 5100 OR 4200 FSE ESTRIKE
- 1 PS902
- 1 9500 SENIOR SWING - SINGLE DOOR
- 1 8310-813 TOUCHLESS ACTUATOR

TYPE
CTE ACCESS CONTROL WITH ESTRIKE WITH SENIOR SWING AO AND INTERIOR TOUCHLESS ACTUATOR

**OPERATION:**
SCHLAGE MTB READER TO SIGNAL ESTRIKE TO RELEASE AND SWING DOOR OPEN VIA 9500 AO. FREE EGRESS ALWAYS PERMITTED. INTERIOR ACTUATOR ALWAYS ACTIVE.

ADDITIONAL WIRING WILL BE REQUIRED THAT IS NOT SHOWN HERE.

CTE TO COMMUNICATE TO ENGAGE™ CLOUD OR SOFTWARE ALLIANCE MEMBER(SAM)SYSTEM

THIS IS NOT A FIRE RATED APPLICATION

DATE DRAWN: 03-26-20

REVISION DATE: 04-03-20

ALLEGION™

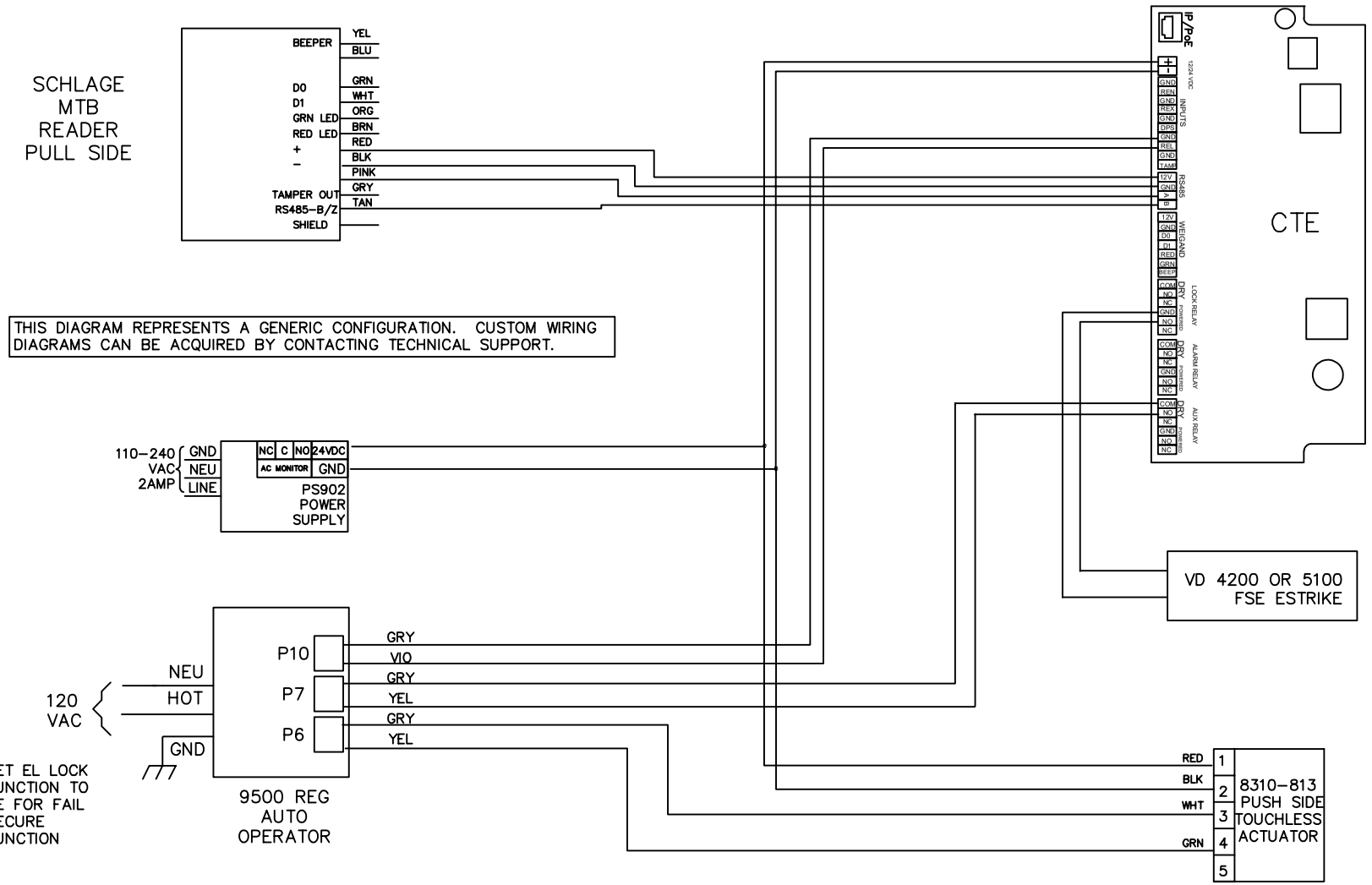
TITLE: CTE WITH ESTRIKE AND PS902 WITH 9500 SENIOR SWING AO AND INTERIOR TOUCHLESS ACTUATOR

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113520R

REV: A

DRAWN/CHECKED BY: B DOVE/J WEISS




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
- 1 CTE
- 1 MTB SCHLAGE READER
- 1 VD 4200 OR 5100 FSE ESTRIKE
- 1 PS902
- 1 LCN 9500 SENIOR SWING - SINGLE DOOR
- 1 LCN 8310-813 TOUCHLESS ACTUATOR

TYPE
CTE ACCESS CONTROL WITH ESTRIKE WITH SENIOR SWING AO AND INTERIOR TOUCHLESS ACTUATOR

**OPERATION:**
SCHLAGE MTB READER TO SIGNAL ESTRIKE TO RELEASE AND SWING DOOR OPEN VIA 9500 AO. FREE EGRESS ALWAYS PERMITTED. INTERIOR ACTUATOR ALWAYS ACTIVE.

ADDITIONAL WIRING WILL BE REQUIRED THAT IS NOT SHOWN HERE.

CTE TO COMMUNICATE TO ENGAGE™ CLOUD OR SOFTWARE ALLIANCE MEMBER(SAM)SYSTEM

THIS IS NOT A FIRE RATED APPLICATION

DATE DRAWN: 03-26-20

REVISION DATE: 04-03-20

ALLEGION™

TITLE: CTE WITH ESTRIKE AND PS902 WITH 9500 SENIOR SWING AO AND INTERIOR TOUCHLESS ACTUATOR

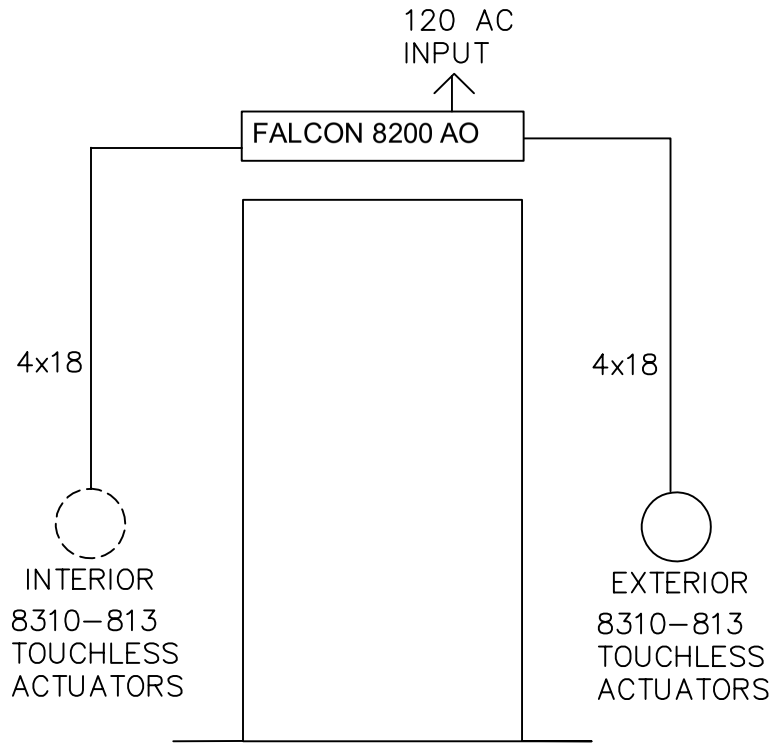
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113520W

REV: A

DRAWN/CHECKED BY: B DOVE /J WEISS

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

1 FALCON 8200 AO
2 8310-813 TOUCHLESS ACTUATOR

TYPE
NON LATCHING BATHROOM DOOR WITH TOUCHLESS ACTUATORS INTERIOR AND EXTERIOR

OPERATION:
SINGLE BATHROOM DOOR ENTRANCE, NON FIRE RATED, NO POSITIVE LATCHING.

EXTERIOR WAVING HAND IN FRONT OF 8310–813 TOUCHLESS ACTUATOR TO SIGNAL FALCON 8200 AO TO OPEN OR DOOR MAY BE PULLED OPEN MANUALLY VIA PULL ON DOOR

INTERIOR WAVING HAND IN FRONT OF 8310–813 TOUCHLESS ACTUATOR TO SIGNAL FALCON 8200 AO TO OPEN OR DOOR MAY BE PUSHED OPEN FROM INSIDE.

DATE DRAWN: 03-27-20
REVISION DATE: 04-03-20

ALLEGION™

TITLE: NON LATCHING BATHROOM DOOR WITH TOUCHLESS ACTUATORS INTERIOR AND EXTERIOR

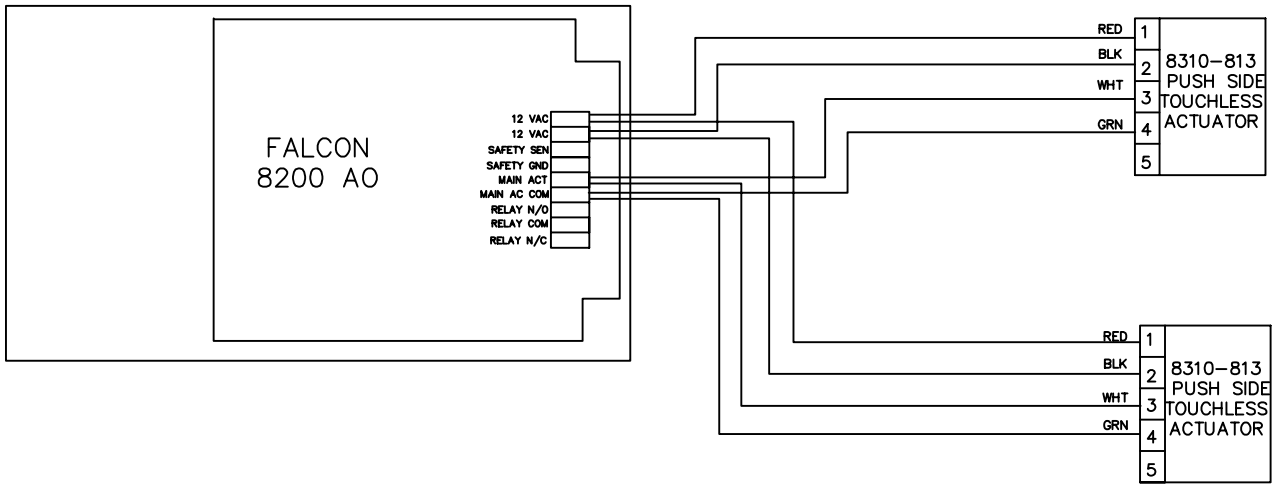
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113521R

DRAWN/CHECKED BY: B DOVE/J WEISS

REV A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

1 FALCON 8200 AO
2 8310-813 TOUCHLESS ACTUATOR

TYPE
NON LATCHING BATHROOM DOOR WITH TOUCHLESS ACTUATORS INTERIOR AND EXTERIOR

OPERATION:
SINGLE BATHROOM DOOR ENTRANCE, NON FIRE RATED, NO POSITIVE LATCHING.

EXTERIOR WAVING HAND IN FRONT OF 8310-813 TOUCHLESS ACTUATOR TO SIGNAL FALCON 8200 AO TO OPEN OR DOOR MAY BE PULLED OPEN MANUALLY VIA PULL ON DOOR

INTERIOR WAVING HAND IN FRONT OF 8310-813 TOUCHLESS ACTUATOR TO SIGNAL FALCON 8200 AO TO OPEN OR DOOR MAY BE PUSHED OPEN FROM INSIDE.

DATE DRAWN: 03-27-20

REVISION DATE: 04-03-20

ALLEGION™

TITLE: NON LATCHING BATHROOM DOOR WITH TOUCHLESS ACTUATORS INTERIOR AND EXTERIOR

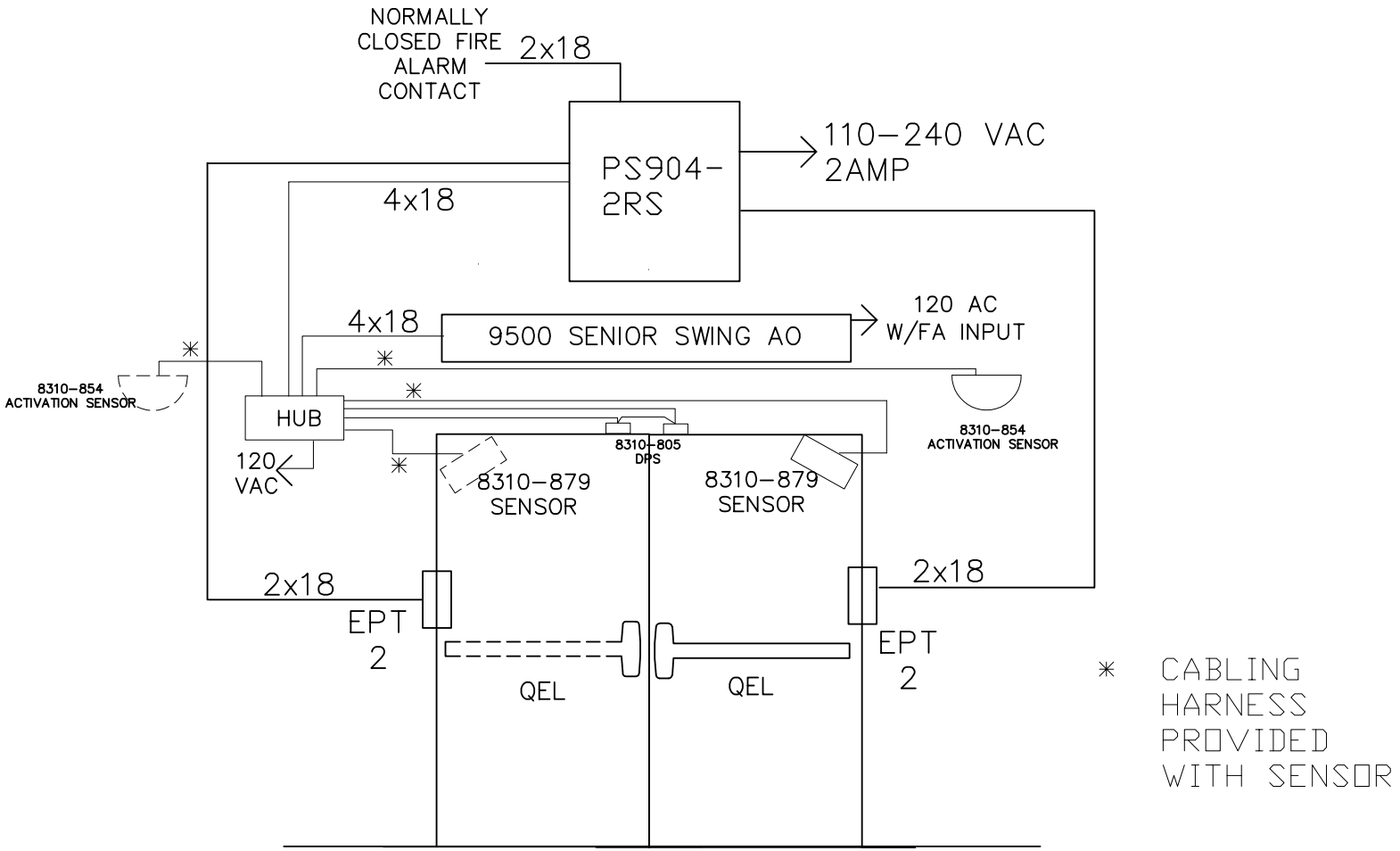
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113521W

DRAWN/CHECKED BY: B DOVE/J WEISS

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
2 VD QEL PANIC DEVICE
1 PS904-2RS POWER SUPPLY
2 EPT POWER TRANSFER
1 9500 SENIOR SWING AUTO OPERATOR PAIR
2 PAIR 8310-879 SAFETY SENSORS WITH 1 CONTROLLER
2 8310-805 DPS
2 8310-854 ACTIVATION SENSORS

TYPE
PAIR QEL PANICS WITH AO AND SENSORS

OPERATION:
FIRE ALARM TO HOLD QEL LATCHES RETRACTED.

8310-854 ACTIVATION SENSORS TO SWING DOORS OPEN.

8310-879 SAFETY SENSORS TO KEEP DOORS FROM SWINGING INTO ONCOMING TRAFFIC

THIS CONFIGURATION REPRESENTS A FIRE RATED OPENING.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS9104 ENCLOSURE OR AT HUB.

DATE DRAWN: 03-31-20
REVISION DATE: 03-31-20

ALLEGION™

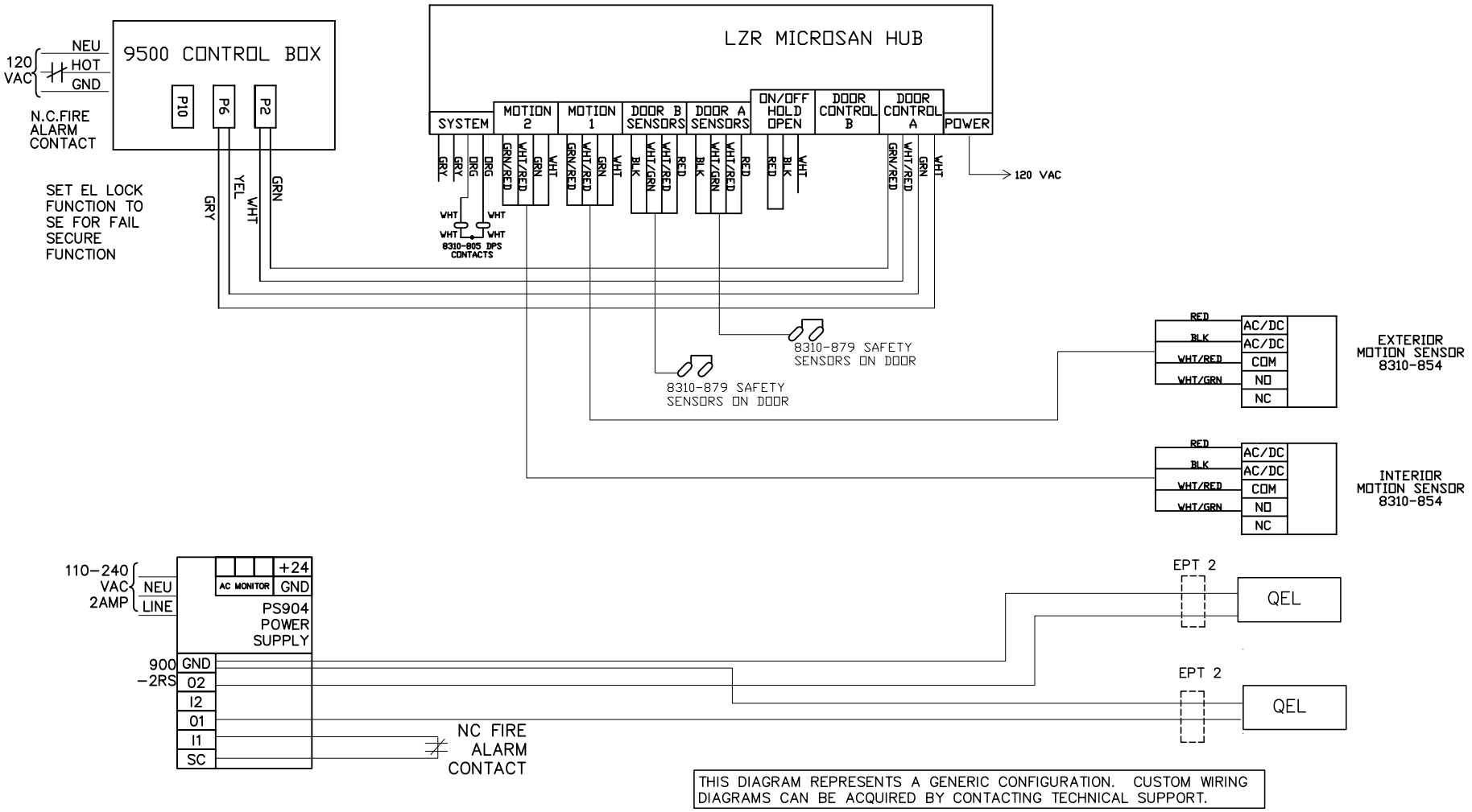
TITLE: DOUBLE EGRESS FIRE RATED PAIR, QEL, 9500 AO WITH SENSORS

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113522

DRAWN BY: B DOVE/J WEISS

REV: A




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
2 VD QEL PANIC DEVICE

1 PS904-2RS POWER SUPPLY

2 EPT POWER TRANSFER

1 9500 SENIOR SWING AUTO OPERATOR PAIR

2 PAIR 8310-879 SAFETY SENSORS WITH 1 CONTROLLER

2 8310-805 DPS

2 8310-854 ACTIVATION SENSORS

TYPE
PAIR QEL PANICS WITH AO AND SENSORS

OPERATION:
FIRE ALARM TO HOLD QEL LATCHES RETRACTED.

8310-854 ACTIVATION SENSORS TO SWING DOORS OPEN.

8310-879 SAFETY SENSORS TO KEEP DOORS FROM SWINGING INTO ONCOMING TRAFFIC

THIS CONFIGURATION REPRESENTS A FIRE RATED OPENING.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS9104 ENCLOSURE OR AT HUB.

DATE DRAWN: 03-31-20

REVISION DATE: 03-31-20

ALLEGION™

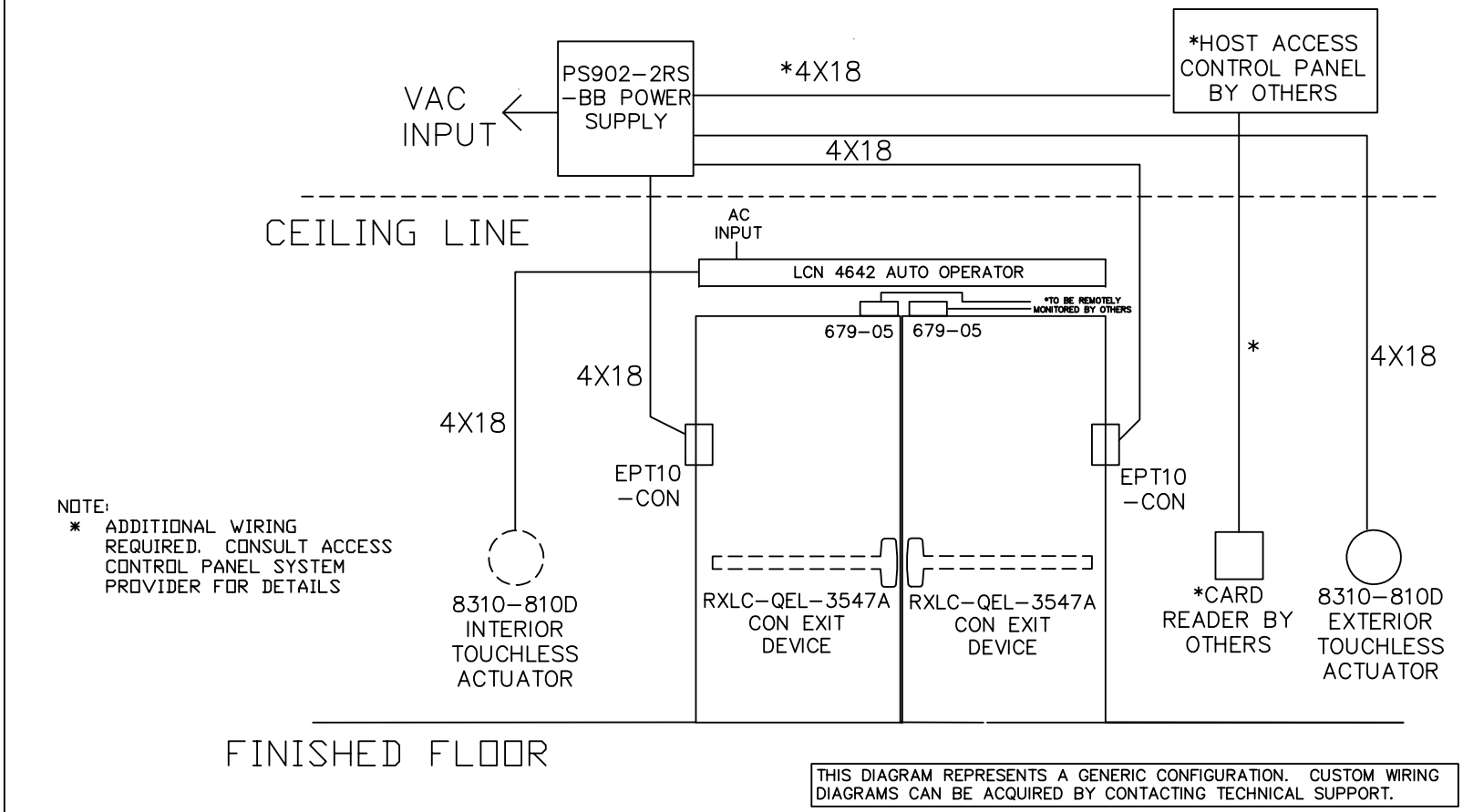
TITLE:
DOUBLE EGRESS FIRE RATED PAIR, QEL, 9500 AO WITH SENSORS

DRAWING TYPE:
WIRING DIAGRAM

DWG NO: 113522W

DRAWN/CHECKED BY:
B DOVE/J WEISS

REV
A




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

2 RXLC QEL 3547A CON EXIT DEVICES

2 EPT10 CON

1 LCN 4642 AUTO OPERATOR

2 LCN 8310-810D TOUCHLESS ACTUATORS

1 SCHLAGE PS902-2RS-BB POWER SUPPLY

2 679-05 DOOR POSITION SWITCHES

1 CARD READER BY OTHERS TO ACCESS CONTROL SYSTEM BY OTHERS

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL SIGNALS QEL LATCH RETRACTION ON BOTH EXIT DEVICES AND ENABLES EXTERIOR ACTUATOR. INTERIOR ACTUATOR ALWAYS ACTIVE TO RETRACT LATCHES AND OPEN DOOR.

RXLC AND 679 DPS SWITCHES TO BE REMOTELY MONITORED BY ACCESS CONTROL SYSTEM BY OTHERS.

THERE IS ADDITIONAL WIRING FOR THE ACCESS CONTROL SYSTEM, 679-05 DPS AND RX-LC SWITCHES THAT IS NOT SHOWN HERE.

FREE EGRESS AT ALL TIMES

DATE DRAWN: 10-13-20

REVISION DATE: 10-13-20

ALLEGION™

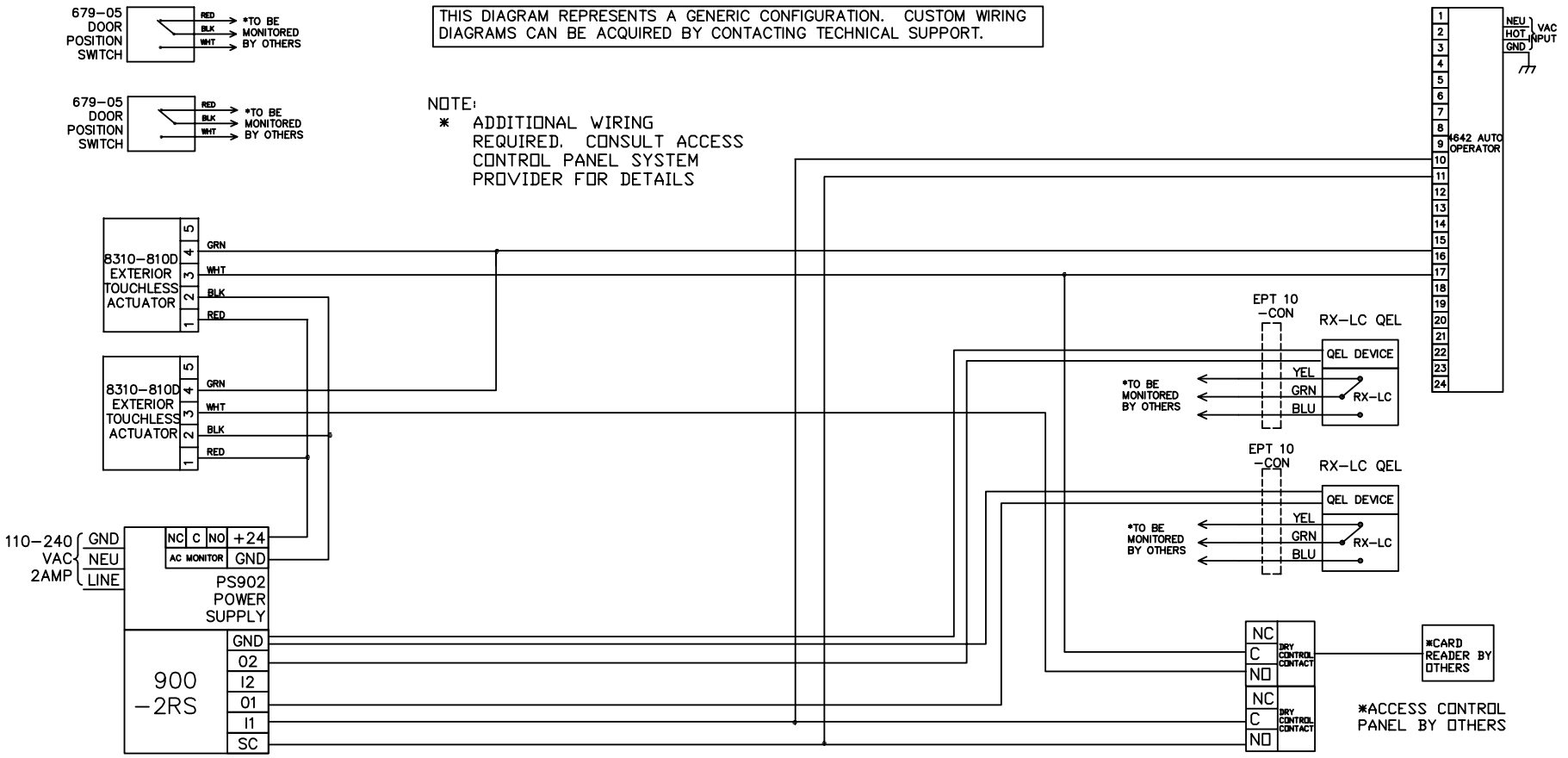
TITLE: EXTERIOR SECURED PAIR OF DOORS WITH AUTO OPERATOR

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113714

DRAWN/CHECKED BY: B DOVE

REV A




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

2 RXLC QEL 3547A CON EXIT DEVICES

2 EPT10 CON

1 LCN 4642 AUTO OPERATOR

2 LCN 8310-810D TOUCHLESS ACTUATORS

1 SCHLAGE PS902-2RS-BB POWER SUPPLY

2 679-05 DOOR POSITION SWITCHES

1 CARD READER BY OTHERS TO ACCESS CONTROL SYSTEM BY OTHERS

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL SIGNALS QEL LATCH RETRACTION ON BOTH EXIT DEVICES AND ENABLES EXTERIOR ACTUATOR. INTERIOR ACTUATOR ALWAYS ACTIVE TO RETRACT LATCHES AND OPEN DOOR.

RXLC AND 679 DPS SWITCHES TO BE REMOTELY MONITORED BY ACCESS CONTROL SYSTEM BY OTHERS.

THERE IS ADDITIONAL WIRING FOR THE ACCESS CONTROL SYSTEM, 679-05 DPS AND RX-LC SWITCHES THAT IS NOT SHOWN HERE.

FREE EGRESS AT ALL TIMES

DATE DRAWN: 10-13-20

REVISION DATE: 10-13-20

ALLEGION™

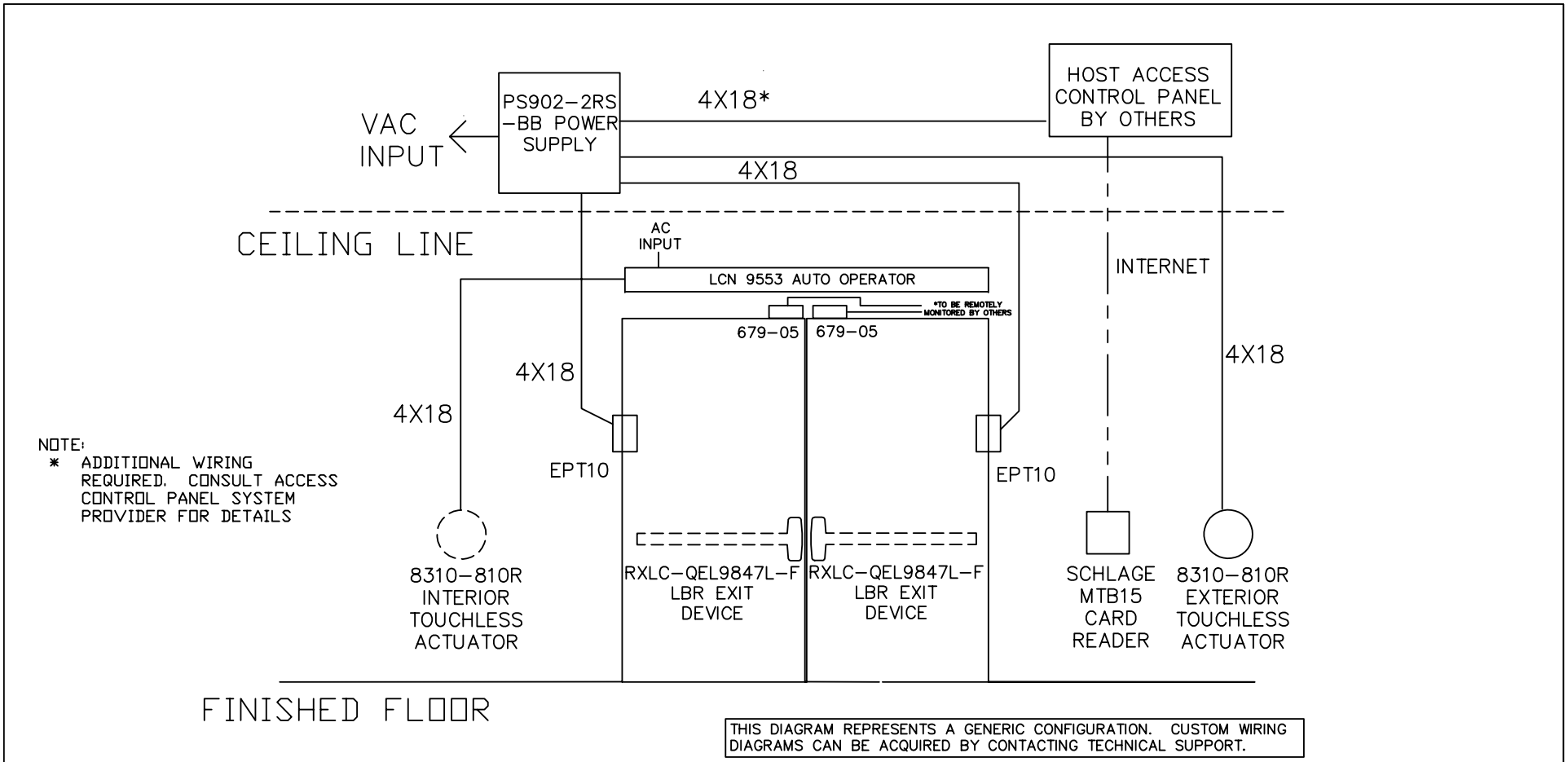
TITLE:
EXTERIOR SECURED PAIR OF DOORS WITH AUTO OPERATOR

DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113714W

DRAWN/CHECKED BY: B DOVE

REV: A




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

2 RXLC QEL 9847L-F LBR FIRE RATED EXIT DEVICES

2 EPT10

1 LCN 9553 AUTO OPERATOR

2 LCN 8310-810R TOUCHLESS ACTUATORS

1 SCHLAGE PS902-2RS-BB POWER SUPPLY

2 679-05 DOOR POSITION SWITCHES

1 MTB15 READER TO ACCESS CONTROL SYSTEM BY OTHERS

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL SIGNALS QEL LATCH RETRACTION ON BOTH FIRE RATED EXIT DEVICE AND ENABLES EXTERIOR ACTUATOR. INTERIOR ACTUATOR ALWAYS ACTIVE TO RETRACT LATCHES AND OPEN DOOR.

RXLC AND 679 DPS SWITCHES TO BE REMOTELY MONITORED BY ACCESS CONTROL SYSTEM BY OTHERS, CONNECTIONS AND WIRING NOT SHOWN HERE.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD

FREE EGRESS AT ALL TIMES

DATE DRAWN: 10-13-20

REVISION DATE: 10-13-20

ALLEGION™

TITLE:
INTERIOR CROSS-CORRIDOR, LATCHING, FIRE RATED PAIR OF DOORS WITH AUTO OPERATOR

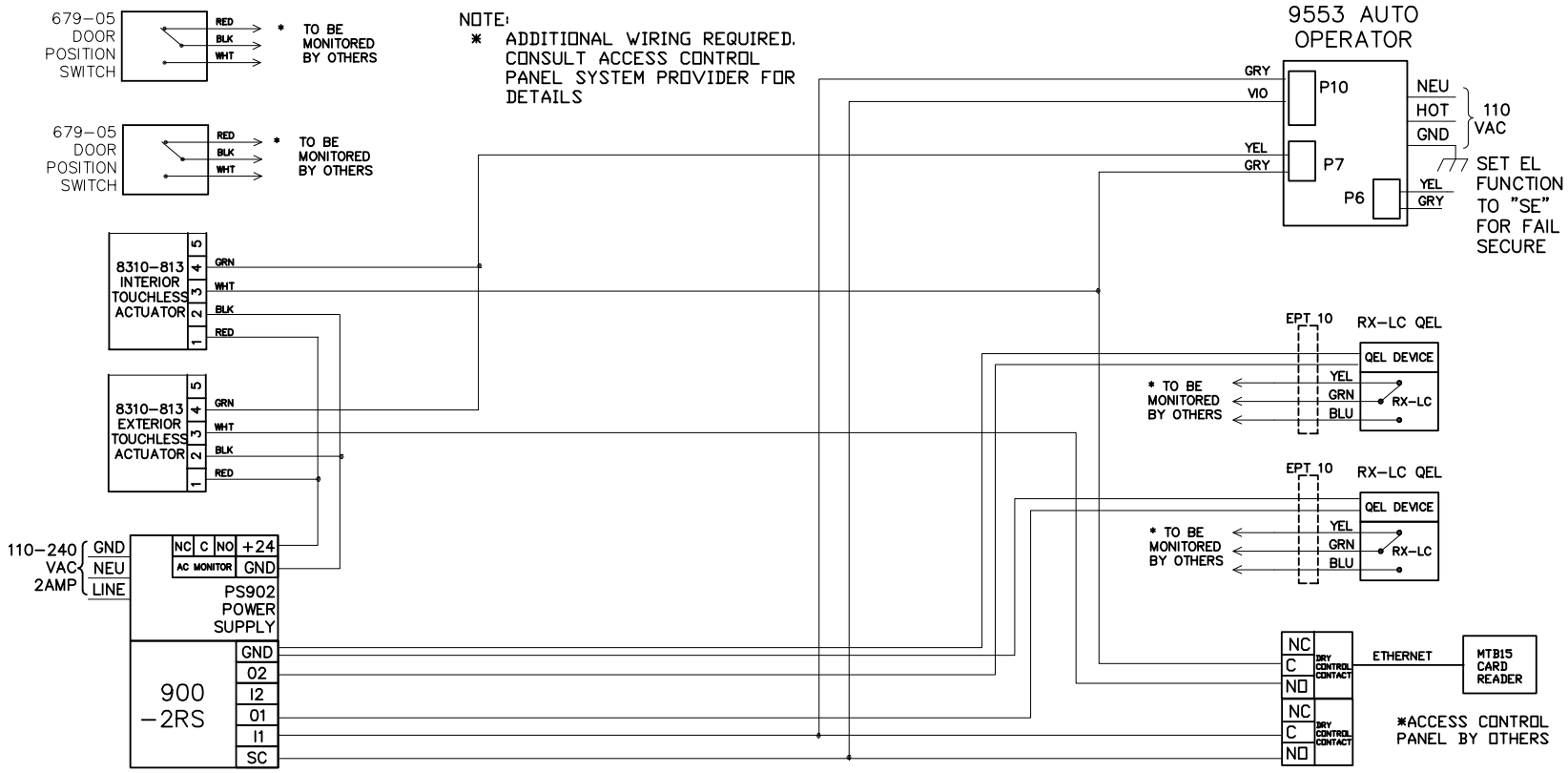
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113715R

DRAWN/CHECKED BY: B DOVE

REV A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

2 RXLC QEL 9847L-F LBR FIRE RATED EXIT DEVICES

2 EPT10

1 LCN 9553 AUTO OPERATOR

2 LCN 8310-810R TOUCHLESS ACTUATORS

1 SCHLAGE PS902-2RS-BB POWER SUPPLY

2 679-05 DOOR POSITION SWITCHES

1 MTB15 READER TO ACCESS CONTROL SYSTEM BY OTHERS

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL SIGNALS QEL LATCH RETRACTION ON BOTH FIRE RATED EXIT DEVICE AND ENABLES EXTERIOR ACTUATOR. INTERIOR ACTUATOR ALWAYS ACTIVE TO RETRACT LATCHES AND OPEN DOOR.

RXLC AND 679 DPS SWITCHES TO BE REMOTELY MONITORED BY ACCESS CONTROL SYSTEM BY OTHERS, CONNECTIONS AND WIRING NOT SHOWN HERE.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD

FREE EGRESS AT ALL TIMES

DATE DRAWN: 10-13-20

REVISION DATE: 10-13-20

ALLEGION™

TITLE:
INTERIOR CROSS-CORRIDOR, LATCHING, FIRE RATED PAIR OF DOORS WITH AUTO OPERATOR

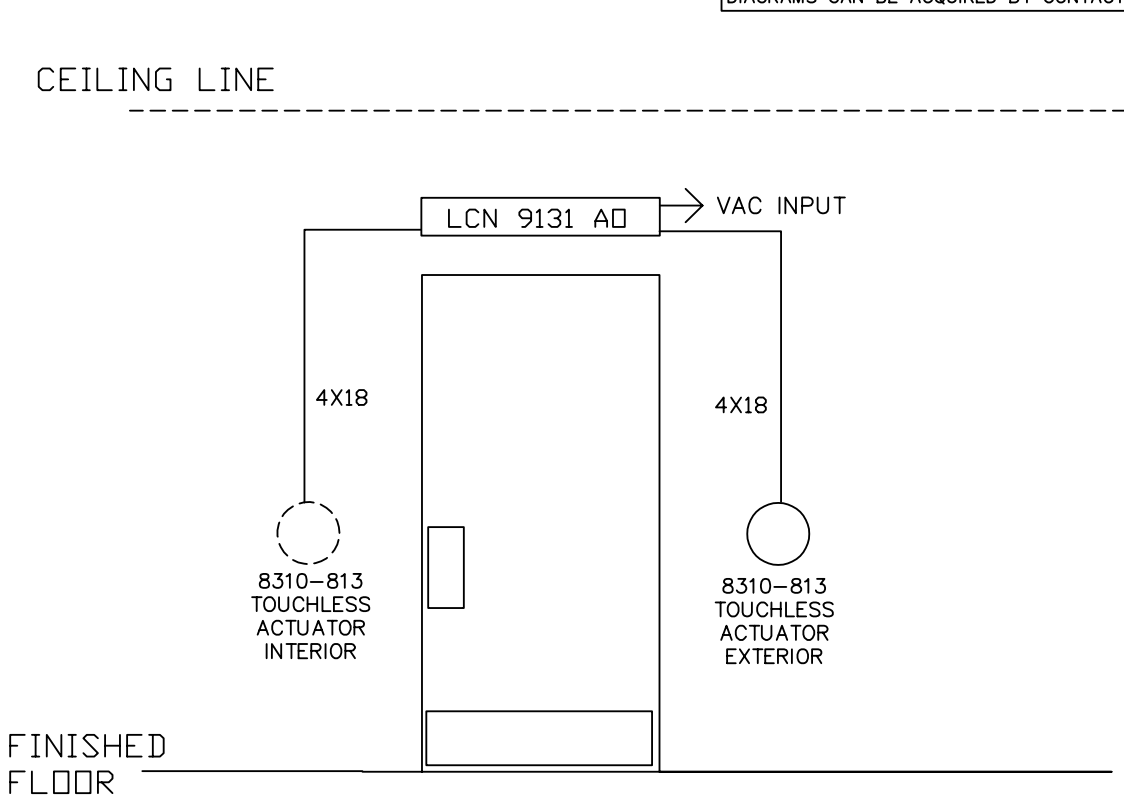
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113715W

DRAWN/CHECKED BY: B DOVE

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
1 LCN 9131 AUTO OPERATOR

2 LCN 8310-813 TOUCHLESS ACTUATORS

OPERATION:

NON-LATCHING, NON RATED RESTROOM DOOR

PRESSING EITHER INTERIOR OR EXTERIOR ACTUATOR TO CAUSE DOOR TO OPEN VIA LCN 9131 AUTO OPERATOR.

DATE DRAWN: 10-13-20

REVISION DATE: 10-13-20

ALLEGION™

TITLE: RESTROOM, NON-LATCHING WITH AUTO OPERATOR

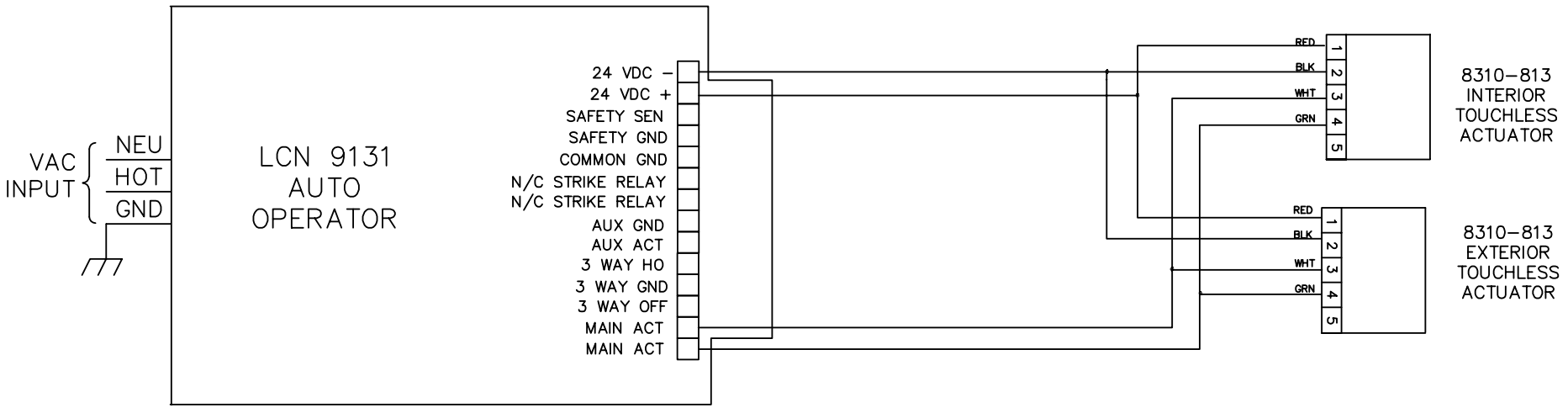
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113716R

DRAWN/CHECKED BY: B DOVE

REV A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

1 LCN 9131 AUTO OPERATOR

2 LCN 8310-813 TOUCHLESS ACTUATORS

OPERATION:

NON-LATCHING, NON RATED RESTROOM DOOR

PRESSING EITHER INTERIOR OR EXTERIOR ACTUATOR TO CAUSE DOOR TO OPEN VIA LCN 9131 AUTO OPERATOR.

DATE DRAWN: 10-13-20

REVISION DATE: 10-13-20

ALLEGION™

TITLE: RESTROOM, NON-LATCHING WITH AUTO OPERATOR

DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113716W

DRAWN/CHECKED BY: B DOVE

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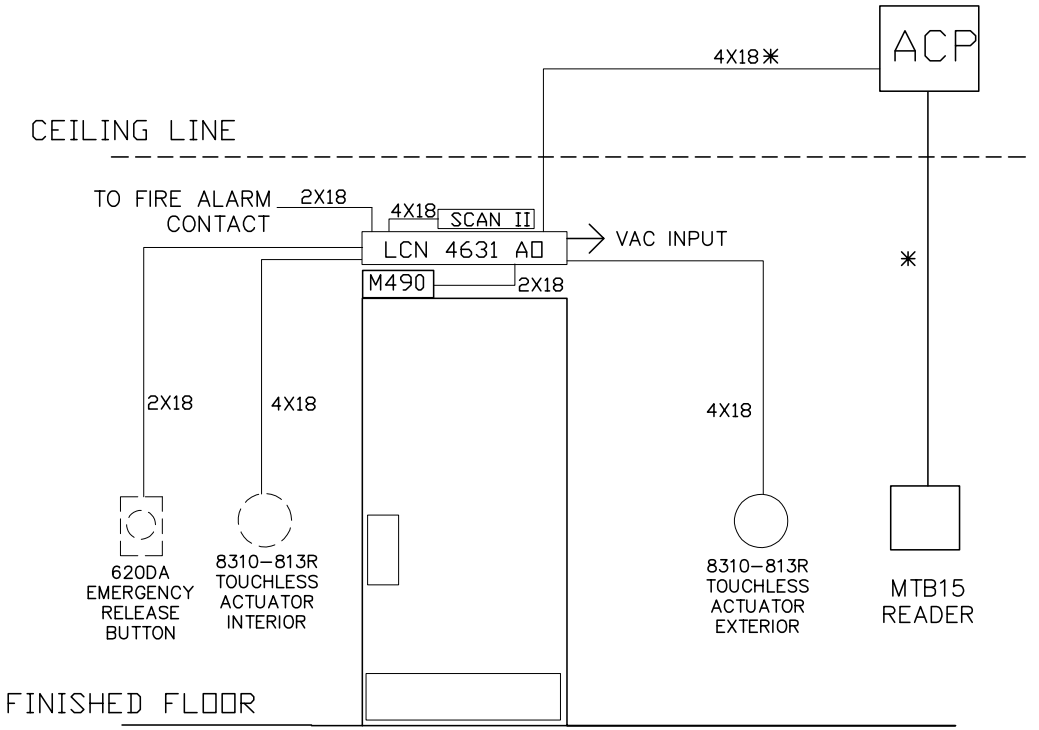
THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*ADDITIONAL WIRING IS REQUIRED FOR ACCESS CONTROL SYSTEM BY OTHERS. SEE MANUFACTURER INSTALLATION INSTRUCTION

IN THIS EXAMPLE ALL WIRING CONNECTIONS EXCEPT MTB15 READER ARE MADE AT THE LCN 4630 AUTO OPERATOR

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 1 LCN 4631 AUTO OPERATOR
- 2 LCN 8310-813R TOUCHLESS ACTUATORS
- 1 M490 MAG LOCK
- 1 SCAN II MOTION SENSOR
- 1 620DA PUSHBUTTON - FOR EMERGENCY RELEASE OF MAG LOCK
- 1 SCHLAGE MTB15 CARD READER BY OTHERS WITH ACP
- FIRE ALARM CONTACT BY OTHERS

OPERATION:
M490 MAG LOCK TO SECURE NON-LATCHING DOOR.

PRESENTING CREDENTIAL TO MTB15 READER TO CAUSE ACCESS CONTROLL SYSTEM BY OTHERS TO RELEASE MAGLOCK AND ENABLE EXTERIOR ACTUATOR.

SCANII MOTION SENSOR OR 620DA PUSH BUTTON TO RELEASE M490 MAG LOCK FOR FREE EGRESS.

INTERIOR ACTUATOR ALWAYS ACTIVE TO RELEASE M490 MAGLOCK AND OPEN DOOR.

FIRE ALARM TO RELEASE DOORS IMMEDIATELY.

DATE DRAWN: 10-12-20

REVISION DATE: 10-12-20

ALLEGION™

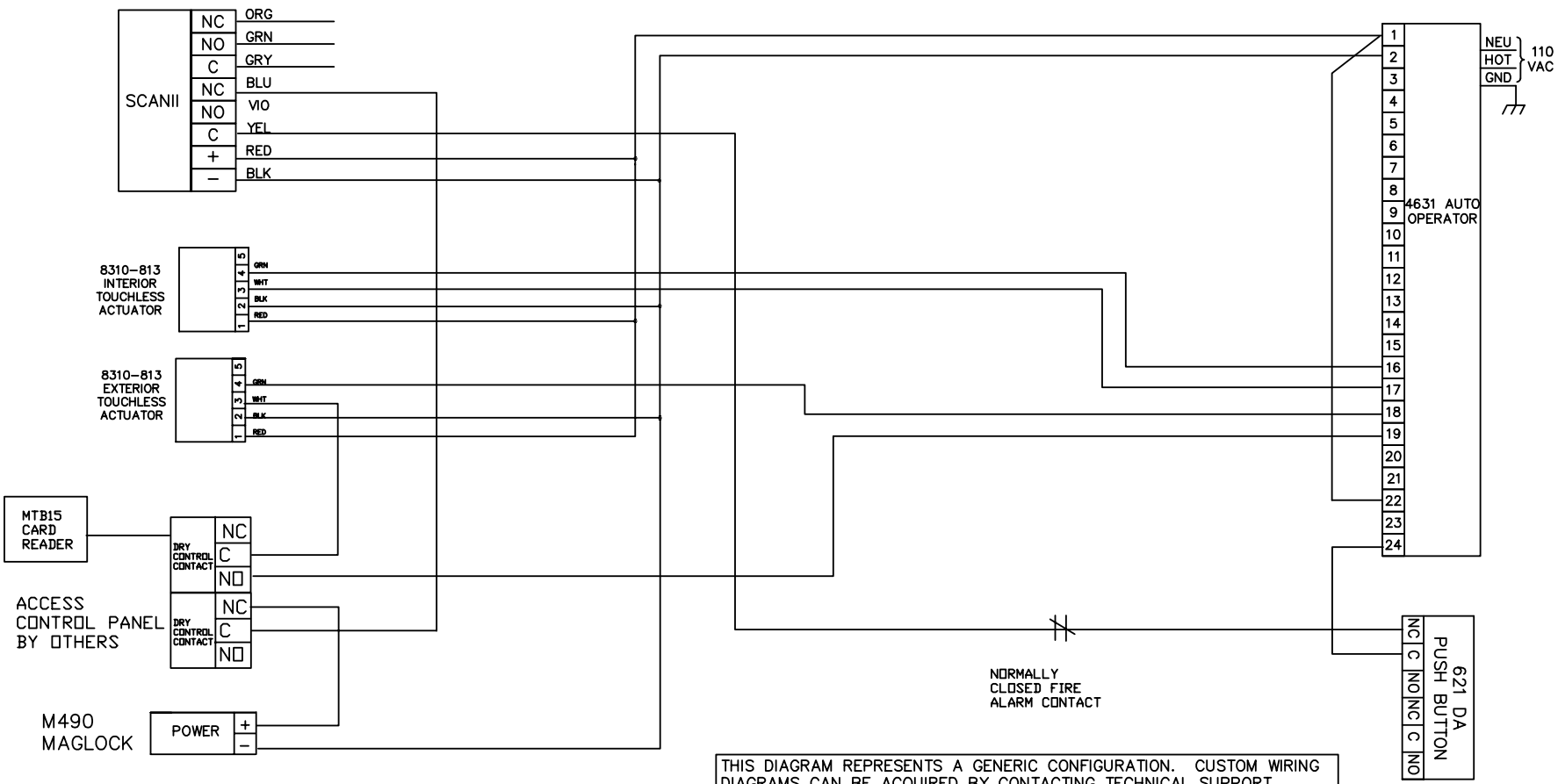
TITLE: COMMON AREA SINGLE DOOR – NON LATCHING WITH MAGLOCK

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113717R

DRAWN/CHECKED BY: B DOVE

REV: A




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
1 LCN 4631 AUTO OPERATOR

2 LCN 8310-813R TOUCHLESS ACTUATORS

1 M490 MAG LOCK

1 SCAN II MOTION SENSOR

1 620DA PUSHBUTTON - FOR EMERGENCY RELEASE OF MAG LOCK

1 SCHLAGE MTB15 CARD READER BY OTHERS WITH ACP

FIRE ALARM CONTACT BY OTHERS

OPERATION:
M490 MAG LOCK TO SECURE NON-LATCHING DOOR.

PRESENTING CREDENTIAL TO MTB15 READER TO CAUSE ACCESS CONTROLL SYSTEM BY OTHERS TO RELEASE MAGLOCK AND ENABLE EXTERIOR ACTUATOR.

SCANII MOTION SENSOR OR 620DA PUSH BUTTON TO RELEASE M490 MAG LOCK FOR FREE EGRESS.

INTERIOR ACTUATOR ALWAYS ACTIVE TO RELEASE M490 MAGLOCK AND OPEN DOOR.

FIRE ALARM TO RELEASE DOORS IMMEDIATELY.

DATE DRAWN: 10-12-20

REVISION DATE: 10-12-20

ALLEGION™

TITLE: COMMON AREA SINGLE DOOR – NON LATCHING WITH MAGLOCK

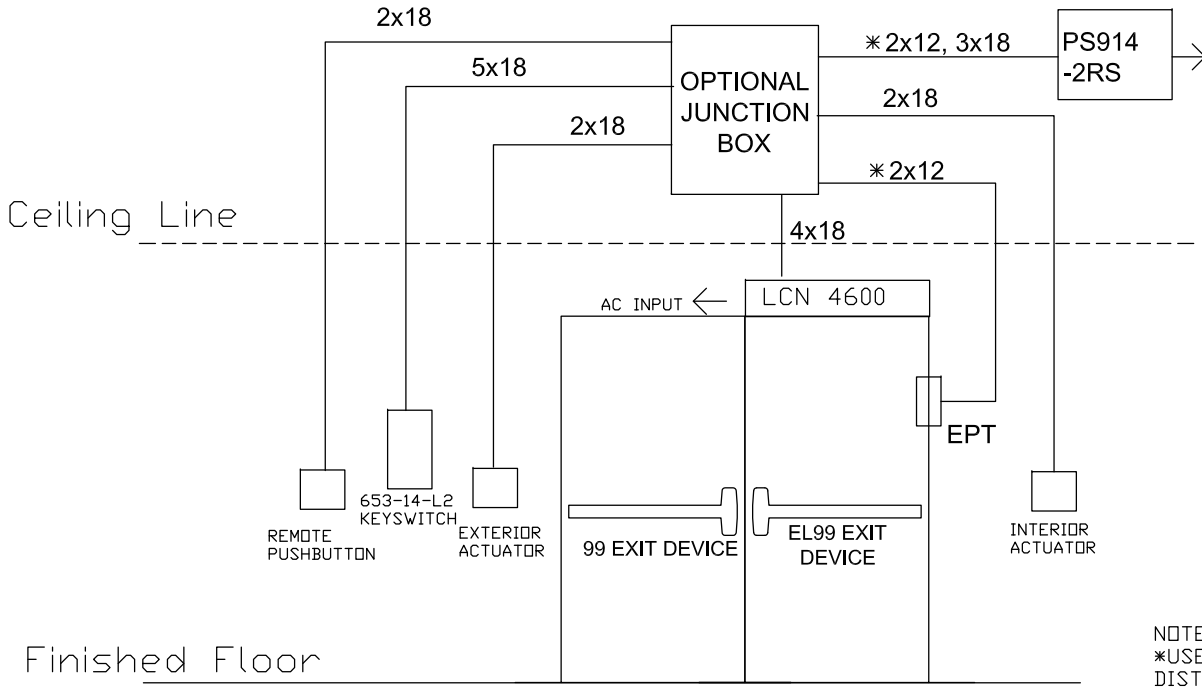
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113717W

DRAWN/CHECKED BY: B DOVE

A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
*USE 12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE 14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
- 1 - PS914-2RS
- 1 - 653-14-L2 KEYSWITCH
- 1 - LCN 4600 AUTO OPERATOR
- 2 - ACTUATORS
- 1 - PUSHBUTTON
- 1 - EL PANIC DEVICE
- 1 - EPT
- 1 - OPTIONAL JUNCTION BOX

TYPE: DOUBLE DOORS

OPERATION:
DOOR NORMALLY CLOSED & LOCKED.

KEYSWITCH RETRACTS LATCH & ENABLES EXTERIOR ACTUATOR.

INTERIOR & REMOTE PUSHBUTTONS ARE ALWAYS ACTIVE TO RETRACT THE ELECTRIC LATCH & SWING THE DOOR.

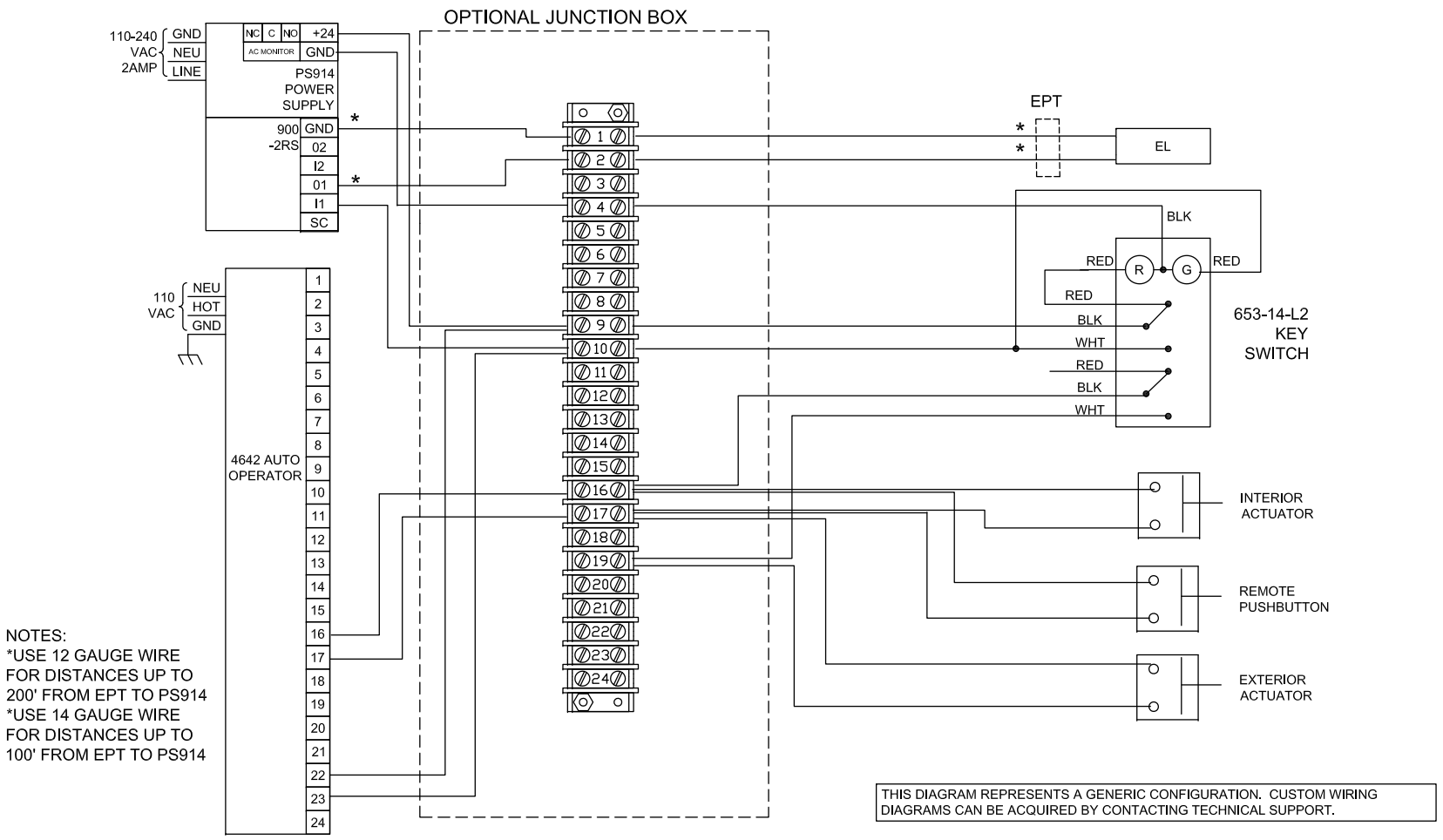
FREE EGRESS AT ALL TIMES.

DATE DRAWN: 03-26-13
REVISION DATE: 04-15-14
DRAWN BY: B DOVE
APPROVED BY: MH

ALLEGION™

TITLE: PS914-2RS EL 4640 2XPB
653-14-L2 X REMOTE PB

DRAWING TYPE: RISER
DWG NO: 104970
DRAWN/CHECKED BY: B DOVE
REV: D




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
- 1 - PS914-2RS
- 1 - 653-14-L2 KEYSWITCH
- 1 - LCN 4600 AUTO OPERATOR
- 2 - ACTUATORS
- 1 - PUSHBUTTON
- 1 - EL PANIC DEVICE
- 1 - EPT
- 1 - OPTIONAL JUNCTION BOX

TYPE
DOUBLE DOORS

OPERATION:
DOOR NORMALLY CLOSED & LOCKED.

KEYSWITCH RETRACTS LATCH & ENABLES EXTERIOR ACTUATOR.

INTERIOR & REMOTE PUSHBUTTONS ARE ALWAYS ACTIVE TO RETRACT THE ELECTRIC LATCH & SWING THE DOOR.

FREE EGRESS AT ALL TIMES.

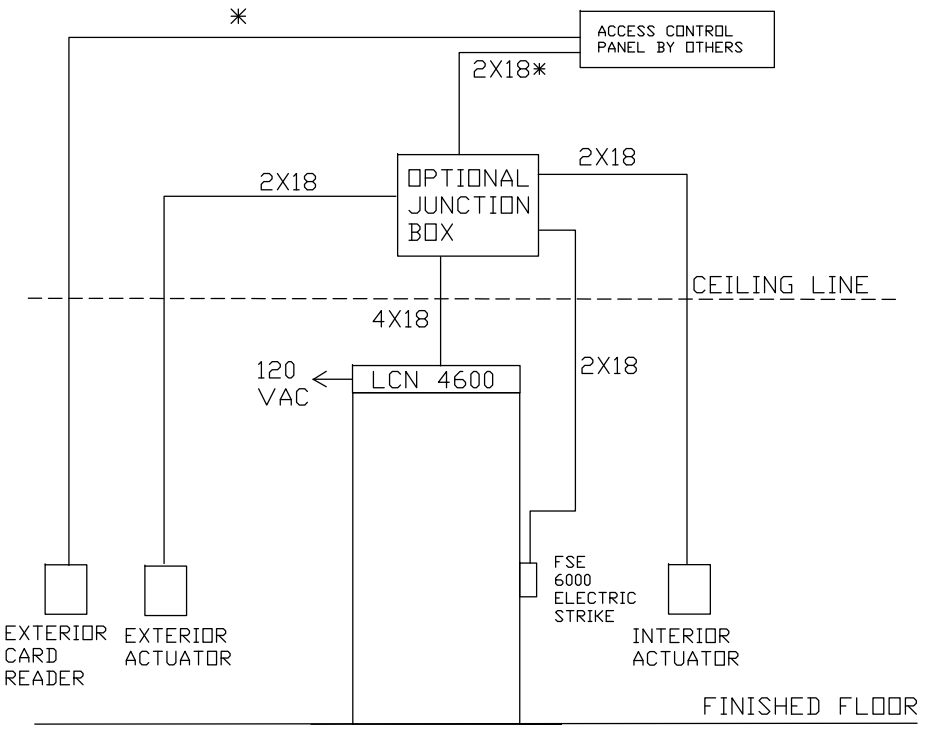
DATE DRAWN: 03-26-13
REVISION DATE: 04-15-14
DRAWN BY: B DOVE
APPROVED BY: MH

ALLEGION™

TITLE:
PS914-2RS EL 4640 2XPB 653-14-L2 X REMOTE PB

DRAWING TYPE: WIRING
DWG NO: 104970
DRAWN/CHECKED BY: B DOVE
REV: D

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
* CONSULT ACCESS CONTROL PANEL AND CARD READER PROVIDER TO DETERMINE CONDUCTOR COUNT AND WIRE SIZE.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 LCN 4600 AUTO OPERATOR
2 ACTUATORS
1 EXTERIOR CARD READER/ACP BY OTHERS
1 VD FSE 6000 ELECTRIC STRIKE
1 OPTIONAL JUNCTION BOX

TYPE
SINGLE DOOR

OPERATION:
DOOR NORMALLY CLOSED & LOCKED.
VALID ACCESS CONTROL READ ENABLES EXTERIOR ACTUATOR.
PRESSING EITHER ACTUATOR UNLOCKS ELECTRIC STRIKE AND OPENS DOOR.
FREE EGRESS AT ALL TIMES.

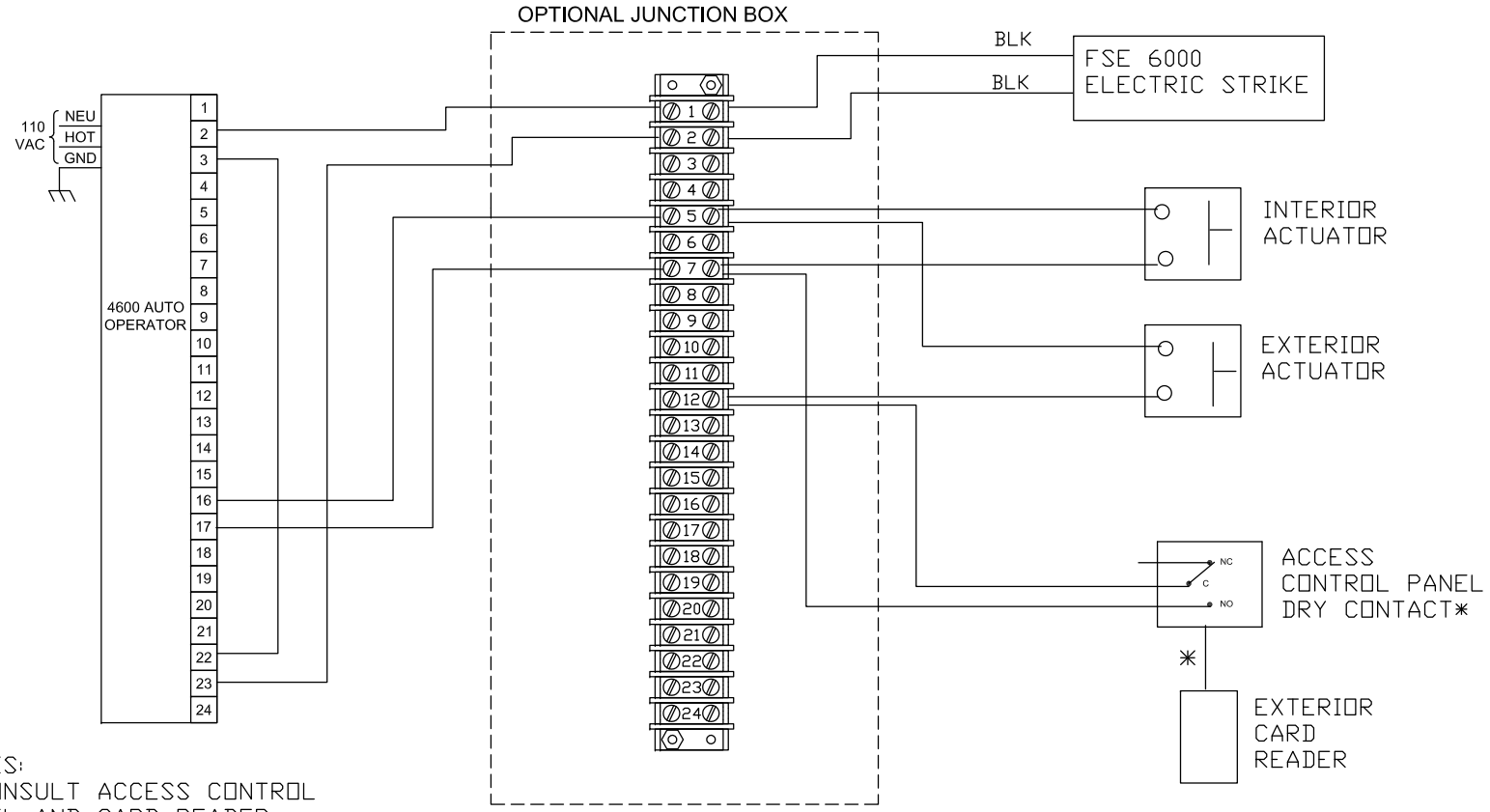
DATE DRAWN: 03-27-13
REVISION DATE: 04-16-14
DRAWN BY: B DOVE
APPROVED BY: MH

ALLEGION™

TITLE: SINGLE LCN 4600 AO 6000 FSE ELECTRIC STRIKE X 2 ACTUATORS X CARD READER/ACP

DRAWING TYPE: RISER
DWG NO: 104972
DRAWN/CHECKED BY: B DOVE
REV: D

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
* CONSULT ACCESS CONTROL PANEL AND CARD READER PROVIDER TO DETERMINE CONDUCTOR COUNT AND WIRE SIZE.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 LCN 4600 AUTO OPERATOR
2 ACTUATORS
1 EXTERIOR CARD READER/ACP BY OTHERS
1 VD FSE 6000 ELECTRIC STRIKE
1 OPTIONAL JUNCTION BOX

TYPE
SINGLE DOOR

OPERATION:
DOOR NORMALLY CLOSED & LOCKED.
VALID ACCESS CONTROL READ ENABLES EXTERIOR ACTUATOR.
PRESSING EITHER ACTUATOR UNLOCKS ELECTRIC STRIKE AND OPENS DOOR.
FREE EGRESS AT ALL TIMES.

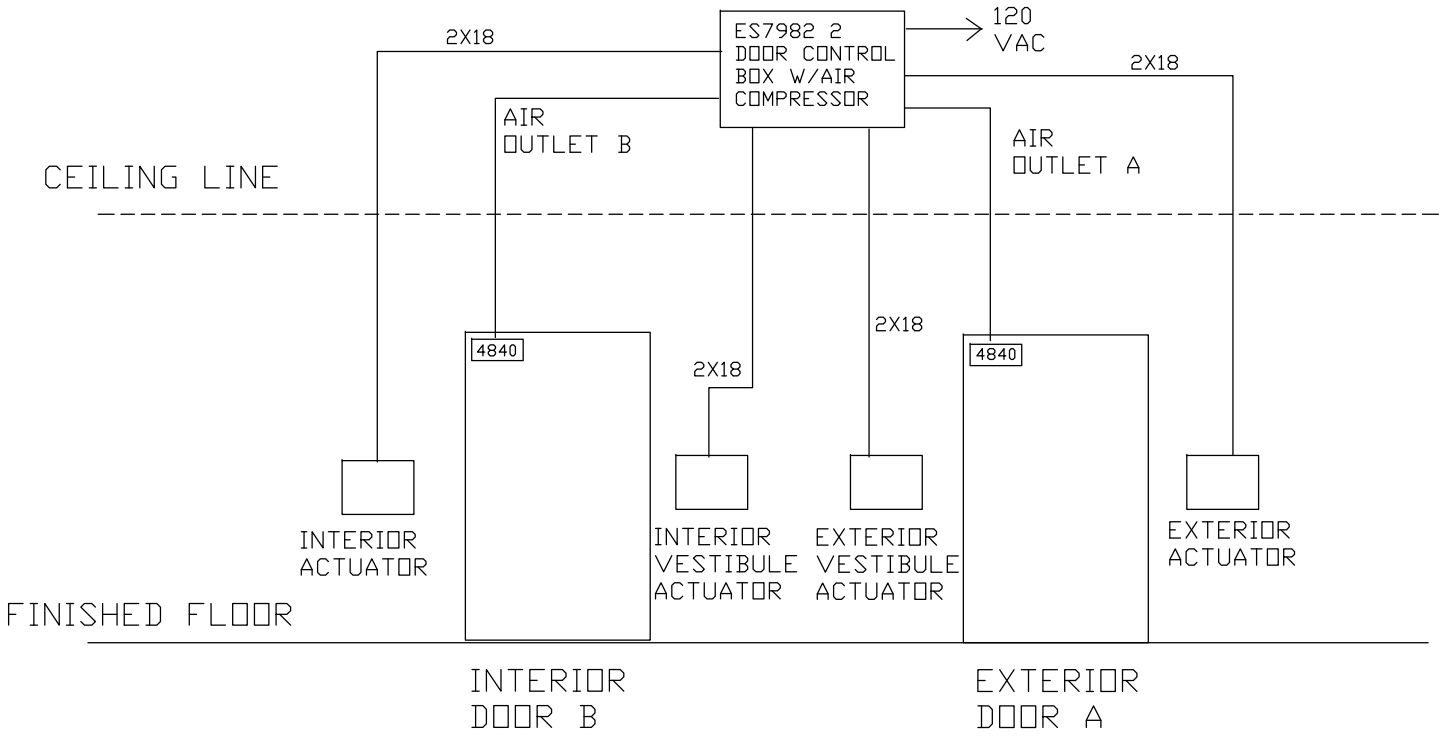
DATE DRAWN: 03-27-13
REVISION DATE: 04-16-14
DRAWN BY: B DOVE
APPROVED BY: MH

ALLEGION™

TITLE: SINGLE LCN 4600 AO 6000 FSE ELECTRIC STRIKE X 2 ACTUATORS X CARD READER/ACP

DRAWING TYPE: WIRING
DWG NO: 104972
DRAWN/CHECKED BY: B DOVE
REV: D

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 - ES7982 CONTROL BOX
4 - 4840 ACTUATORS
2 4840 AUTO OPERATORS

TYPE:
2 SINGLE DOORS

OPERATION:
DOORS NORMALLY CLOSED.
PUSHING INTERIOR VESTIBULE ACTUATOR OPENS INTERIOR DOOR.
PUSHING EXTERIOR VESTIBULE ACTUATOR OPENS EXTERIOR DOOR.
PUSHING INTERIOR ACTUATOR OPENS INTERIOR DOOR & THEN EXTERIOR DOOR IN SEQUENCE.
PUSHING EXTERIOR ACTUATOR OPENS EXTERIOR DOOR & THEN FREE EGRESS AT ALL TIMES.

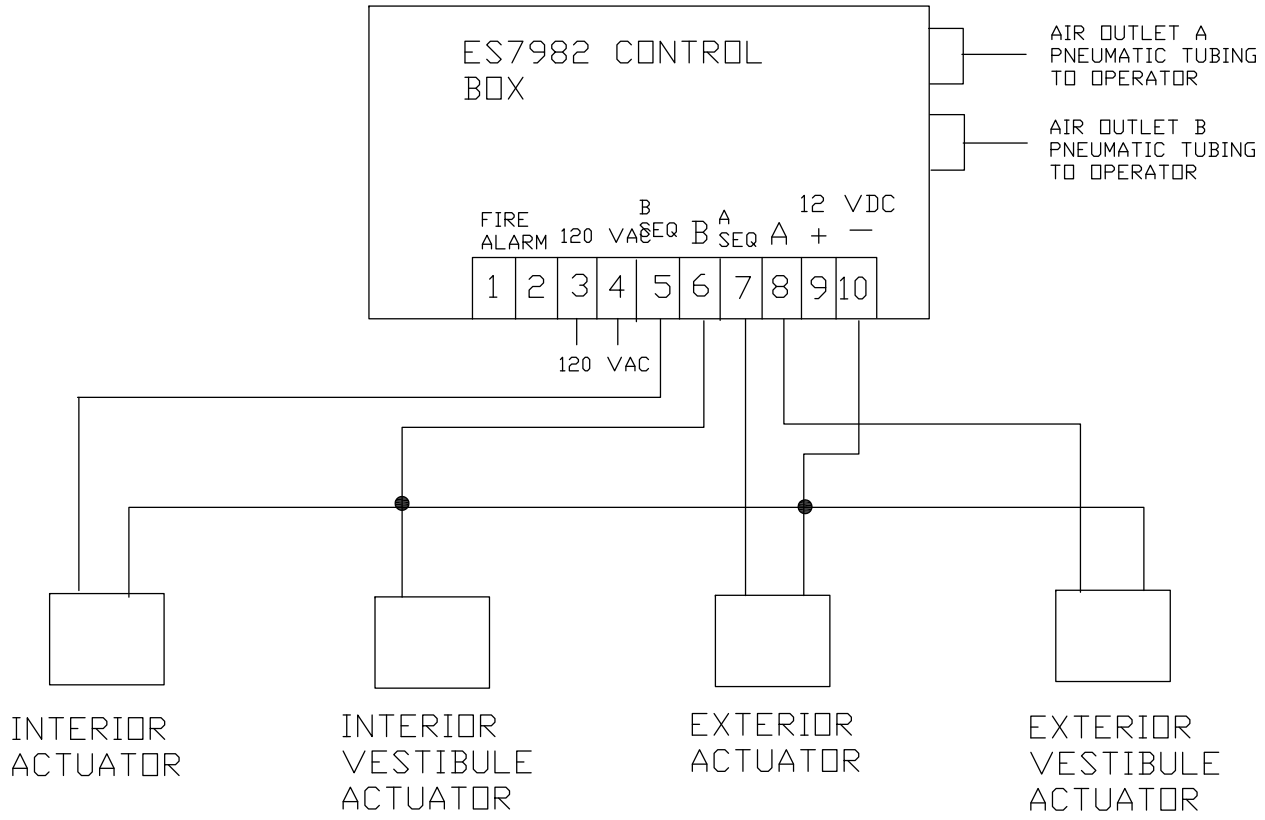
DATE DRAWN: 03-26-13
REVISION DATE: 04-16-14
DRAWN BY: B DOVE
APPROVED BY: MH

ALLEGION™

TITLE: 2 SINGLE DOORS ES7982 X 2 4840 ACTUATORS

DRAWING TYPE: RISER
DWG NO: 104968
DRAWN/CHECKED BY: B DOVE
REV: D

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 - ES7982 CONTROL BOX
4 - 4840 ACTUATORS
2 4840 AUTO OPERATORS

TYPE: 2 SINGLE DOORS

OPERATION:
DOORS NORMALLY CLOSED.
PUSHING INTERIOR VESTIBULE ACTUATOR OPENS INTERIOR DOOR.
PUSHING EXTERIOR VESTIBULE ACTUATOR OPENS EXTERIOR DOOR.
PUSHING INTERIOR ACTUATOR OPENS INTERIOR DOOR & THEN EXTERIOR DOOR IN SEQUENCE.
PUSHING EXTERIOR ACTUATOR OPENS EXTERIOR DOOR & THEN FREE EGRESS AT ALL TIMES.

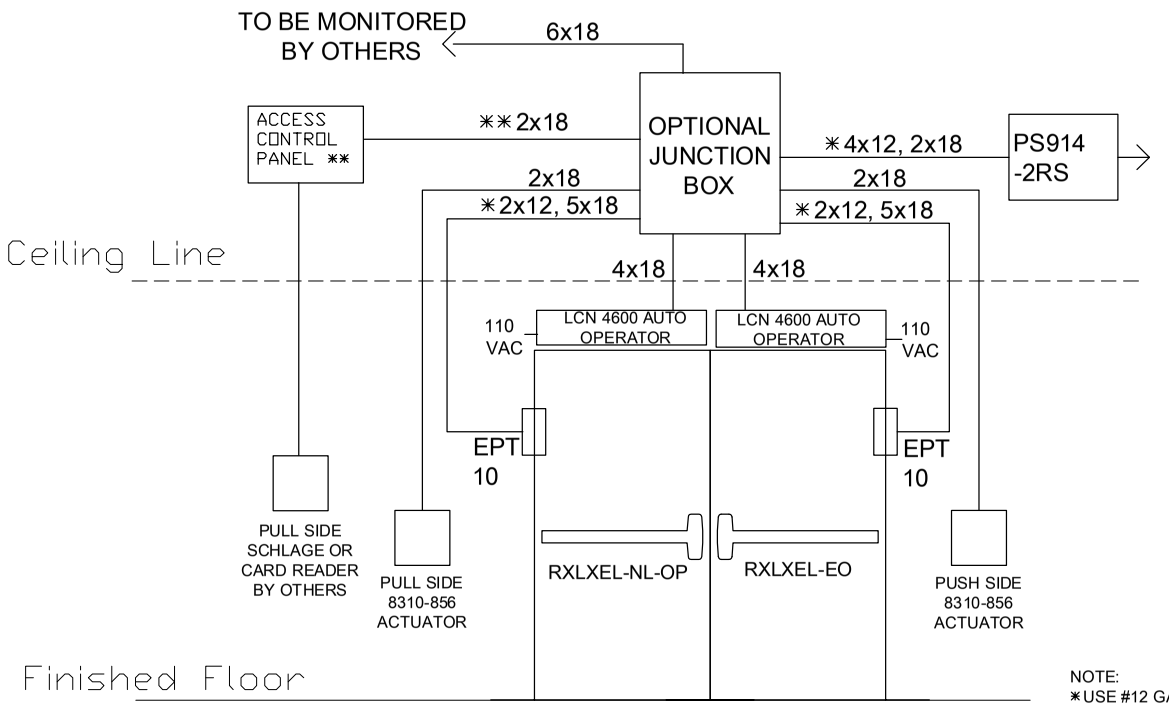
DATE DRAWN: 03-26-13
REVISION DATE: 04-16-14
DRAWN BY: B DOVE
APPROVED BY: MH

ALLEGION™

TITLE: 2 SINGLE DOORS ES7982 X 2 4840 ACTUATORS

DRAWING TYPE: WIRING
DWG NO: 104968
DRAWN/CHECKED BY: B DOVE
REV: D

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914
**ADDITIONAL WIRING IS REQUIRED. SEE MANUFACTURER INSTALLATION INSTRUCTION

OPTIONAL JUNCTION BOX IS AVAILABLE FROM VON DUPRIN AS A JB7

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ** CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
1 RXLXEL EO PANIC
1 RXLXEL-NL-OP PANIC
2 EPT 10
2 8310-856 LCN ACTUATORS
2 4600 AUTO OPERATOR
1 SCHLAGE OR CARD READER BO WITH ACP BO

TYPE

OPERATION:
PUSH SIDE 8310-856 ACTUATOR TO RETRACT THE ELECTRIC PANIC BARS AND OPEN THE LCN 4600 AUTO OPERATORS.
SCHLAGE OR CARD READER BY OTHERS TO SIGNAL EL LATCH RETRACTION AND ENABLE EXTERIOR 8310-856 ACTUATOR

PULL SIDE 8310-856 ACTUATOR TO RETRACT THE ELECTRIC PANIC BARS WHEN ENABLED BY CARD READER AND ACCESS CONTROL PANEL

REQUEST EXIT SWITCH RX TO BE MONITORED BY OTHERS.

DATE DRAWN: 3-26-13
REVISION DATE: 07-03-17

ALLEGION™

TITLE: RXLXEL PAIR WITH LCN 4600 AO AND PS914-2RS

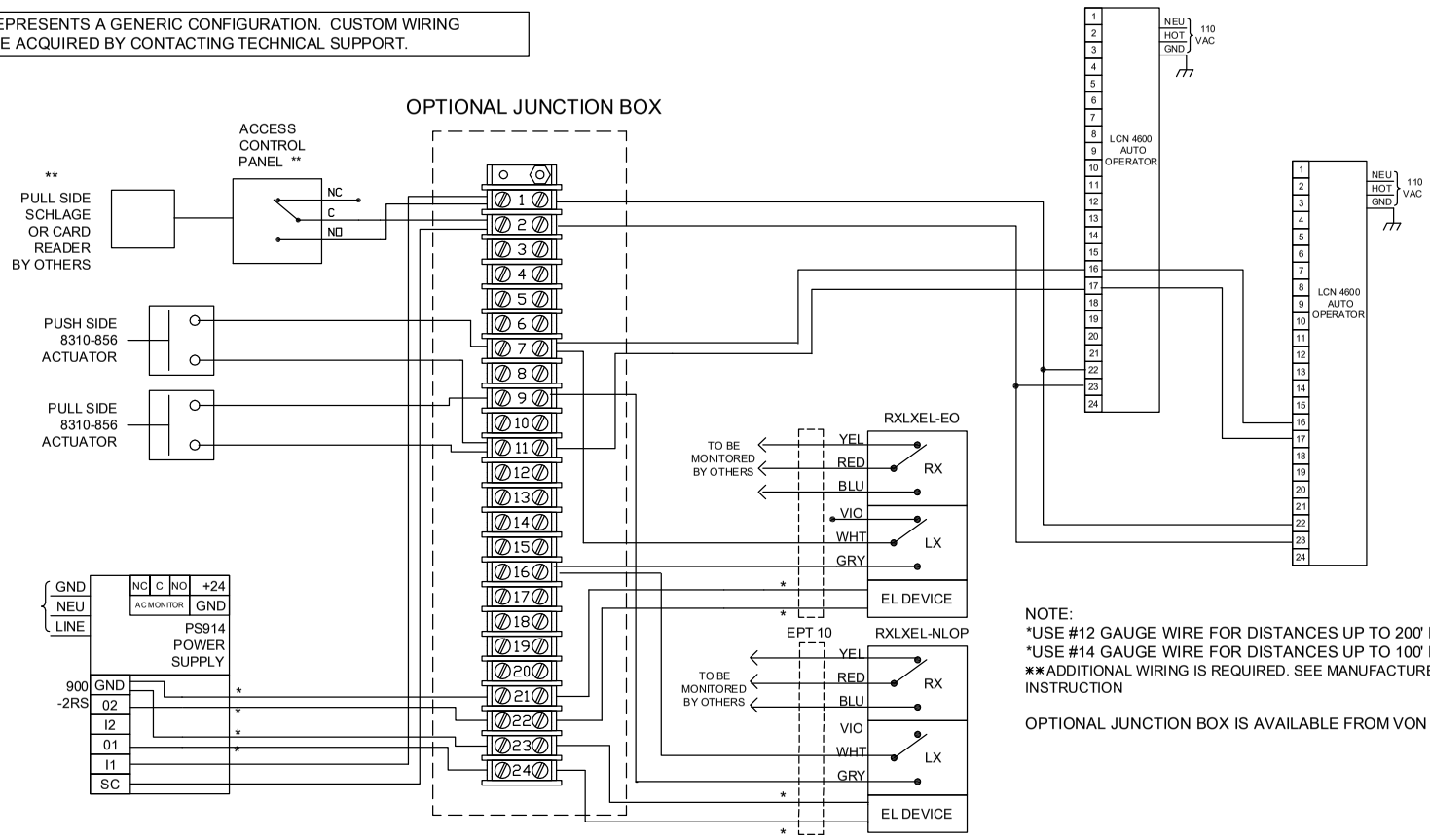
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109463

DRAWN/CHECKED BY: B DOVE/D BOLLENGIER

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914
**ADDITIONAL WIRING IS REQUIRED. SEE MANUFACTURER INSTALLATION INSTRUCTION

OPTIONAL JUNCTION BOX IS AVAILABLE FROM VON DUPRIN AS A JB7

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ** CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
1 RXLXEL EO PANIC
1 RXLXEL-NL-OP PANIC
2 EPT 10
2 8310-856 LCN ACTUATORS
2 4600 AUTO OPERATOR
1 SCHLAGE OR CARD READER BO WITH ACP BO

TYPE

OPERATION:
PUSH SIDE 8310-856 ACTUATOR TO RETRACT THE ELECTRIC PANIC BARS AND OPEN THE LCN 4600 AUTO OPERATOR.

SCHLAGE OR CARD READER BY OTHERS TO SIGNAL EL LATCH RETRACTION AND ENABLE EXTERIOR 8310-856 ACTUATOR

PULL SIDE 8310-856 ACTUATOR TO RETRACT THE ELECTRIC PANIC BARS WHEN ENABLED BY CARD READER AND ACCESS CONTROL PANEL

REQUEST EXIT SWITCH RX TO BE MONITORED BY OTHERS.

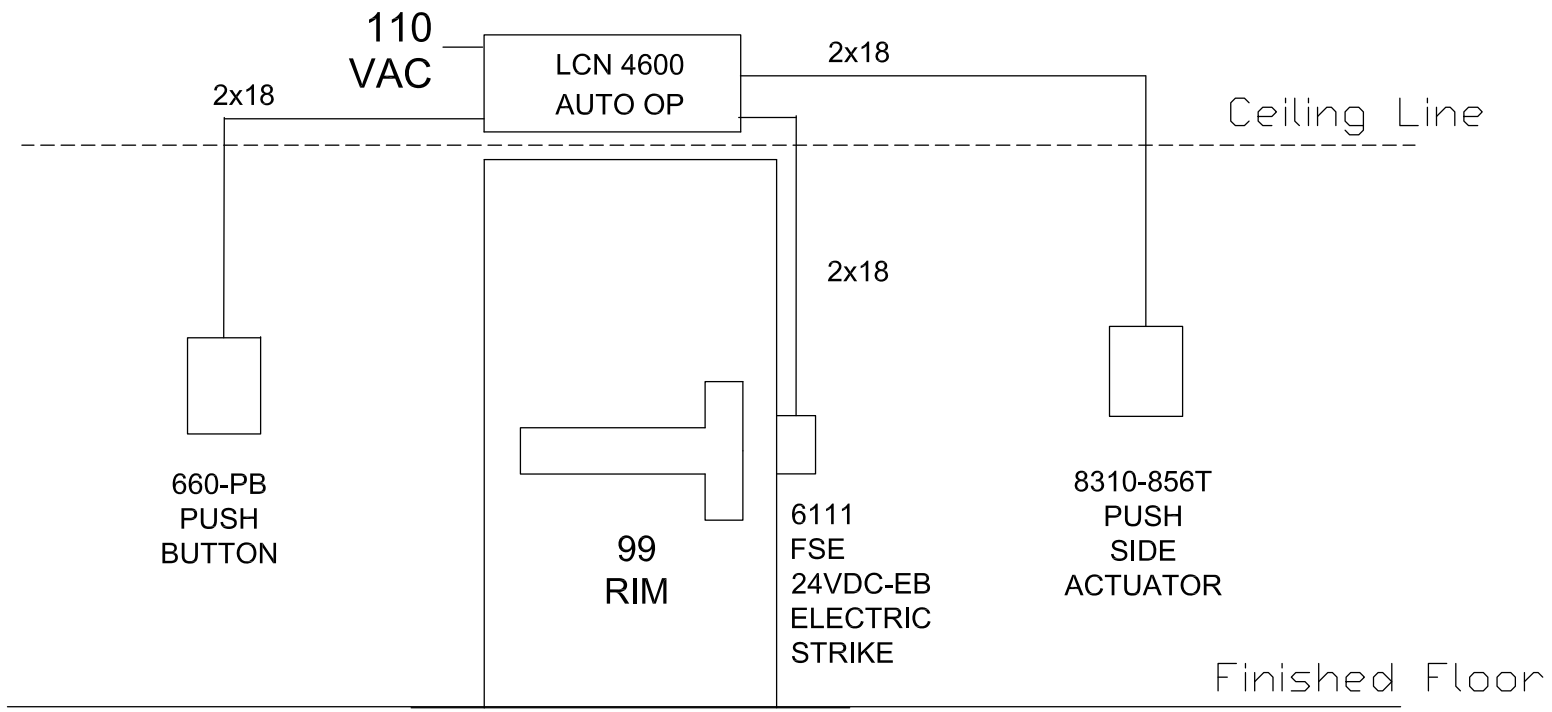
DATE DRAWN: 3-26-13
REVISION DATE: 07-03-17

ALLEGION™

TITLE: RXEL PAIR WITH LCN 4600 AO AND PS914-2RS

DRAWING TYPE: WIRING DIAGRAM
DWG NO: 109463
DRAWN/CHECKED BY: B DOVE/D BOLLENGIER
REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

1 4600 LCN AUTO OPERATOR
1 99 EXIT DEVICE
1 6111 FSE X EB ESTRIKE
1 660PB BUTTON
1 8310-856T ACTUATOR

TYPE
AUTO OPERATOR AND ACTUATORS

OPERATION:
8310-856 ACTUATOR FROM PUSH SIDE TO UNLOCK THE ELECTRIC STRIKE AND OPEN THE DOOR.

660PB REMOTE PUSH BUTTON TO UNLOCK THE 6111 FSE ELECTRIC STRIKE AND OPEN THE DOOR.

DATE DRAWN: 3-27-13
REVISION DATE: 3-27-13

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ALLEGION™

TITLE: LCN 4600 WITH 8310-856 ACT AND 660PB

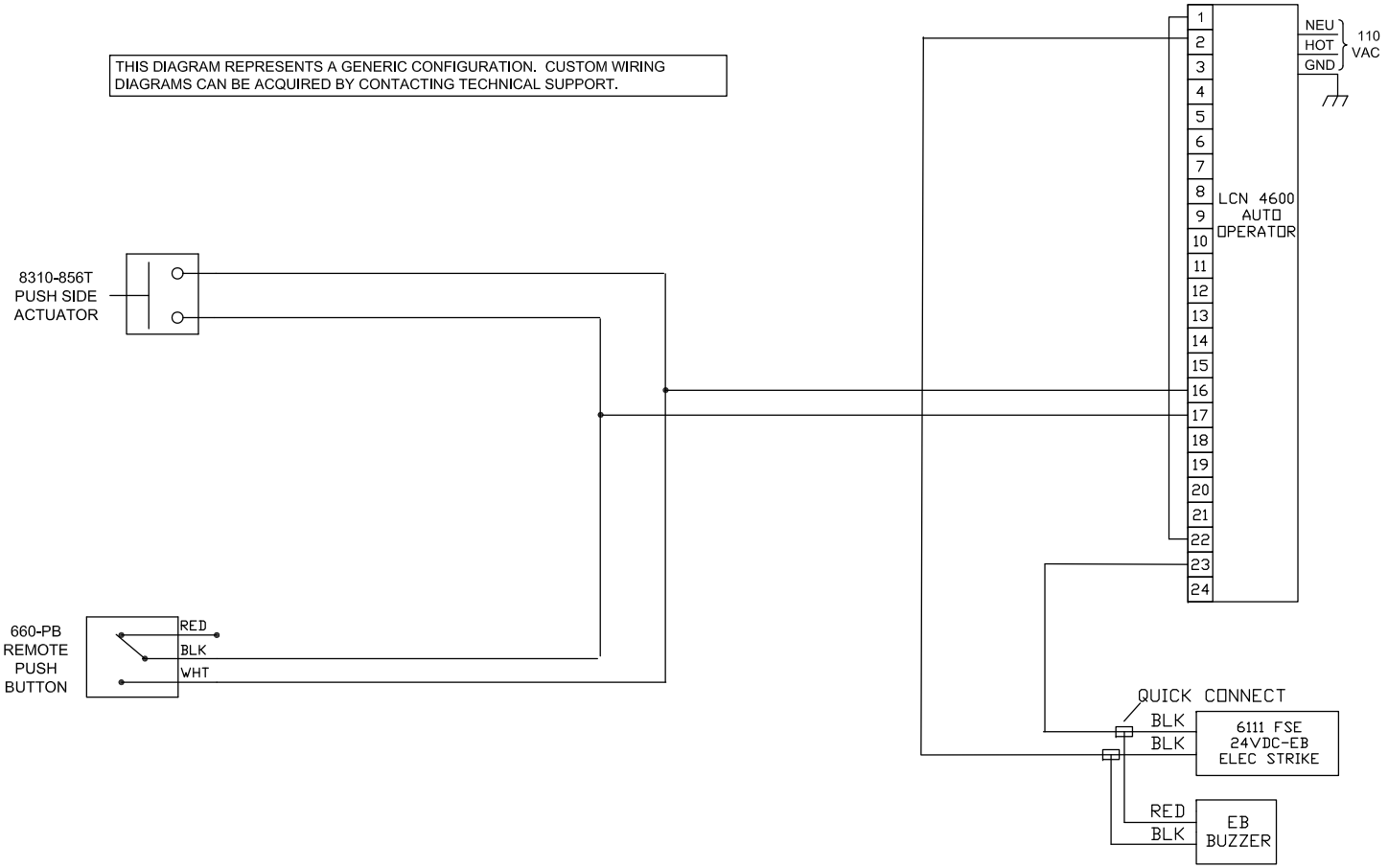
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109464

DRAWN/CHECKED BY: B DOVE/D BOLLENGIER

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 4600 LCN AUTO OPERATOR
1 99 EXIT DEVICE
1 6111 FSE X EB ESTRIKE
1 660PB BUTTON
1 8310-856T ACTUATOR

TYPE
AUTO OPERATOR AND ACTUATORS

OPERATION:
8310-856 ACTUATOR FROM PUSH SIDE TO UNLOCK THE ELECTRIC STRIKE AND OPEN THE DOOR.

660PB REMOTE PUSH BUTTON TO UNLOCK THE 6111 FSE ELECTRIC STRIKE AND OPEN THE DOOR.

DATE DRAWN: 3-27-13
REVISION DATE: 3-27-13

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ALLEGION™

TITLE: LCN 4600 WITH 8310-856 ACT AND 660PB

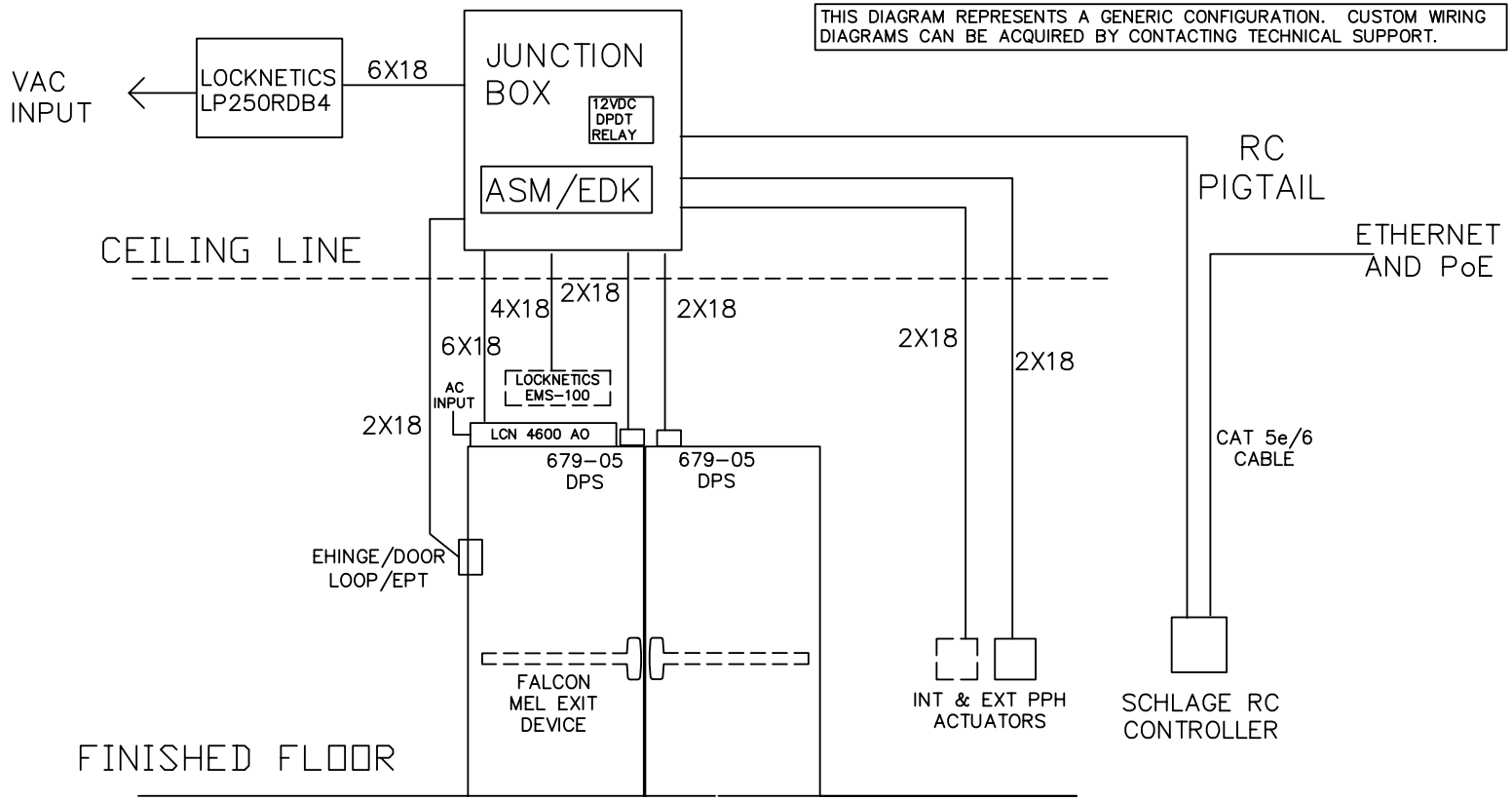
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109464

REV: A

DRAWN/CHECKED BY: B DOVE/ D BOLLENGIER

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS EMS-100 MOTION SENSOR
- 1 FALCON MEL 24/25 EXIT DEVICES
- 2 DOOR LOOP OR EHINGE OR EPT
- LCN 4600 AO
- 2 LOCKNETICS PPH ACTUATORS
- LOCKNETICS LP250RDB4
- 2 679-05 DPS
- 1 12VDC DPDT RELAY
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL SIGNALS MEL LATCH RETRACTION ON RHR LEAF PANIC DEVICE AND ENABLES EXTERIOR ACTUATOR. INTERIOR ACTUATOR ALWAYS ACTIVE.

EMS-100 MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 09-09-20

REVISION DATE: 09-09-20

ALLEGION™

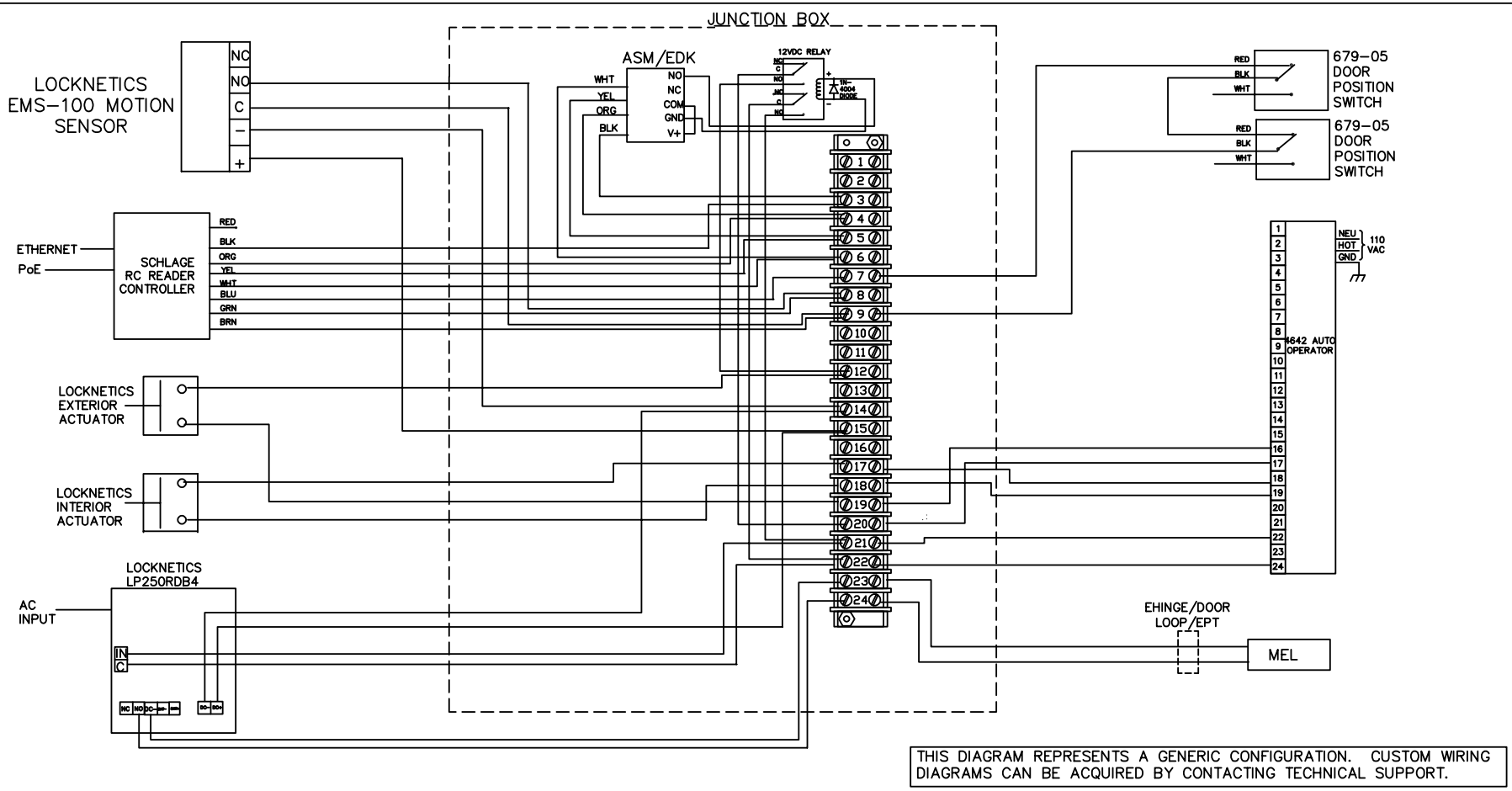
TITLE:
SCHLAGE RC CONTROLLER WITH MEL, AO, MOTION SENSOR, DPS PAIR OF DOORS

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113740R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS EMS-100 MOTION SENSOR
- 1 FALCON MEL 24/25 EXIT DEVICES
- 2 DOOR LOOP OR EHINGE OR EPT
- LCN 4600 AO
- 2 LOCKNETICS PPH ACTUATORS
- LOCKNETICS LP250RDB4
- 2 679-05 DPS
- 1 12VDC DPDT RELAY
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL SIGNALS MEL LATCH RETRACTION ON RHR LEAF PANIC DEVICE AND ENABLES EXTERIOR ACTUATOR. INTERIOR ACTUATOR ALWAYS ACTIVE.

EMS-100 MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 09-09-20

REVISION DATE: 09-09-20

ALLEGION™

TITLE:
SCHLAGE RC CONTROLLER WITH MEL, AO, MOTION SENSOR, DPS PAIR OF DOORS

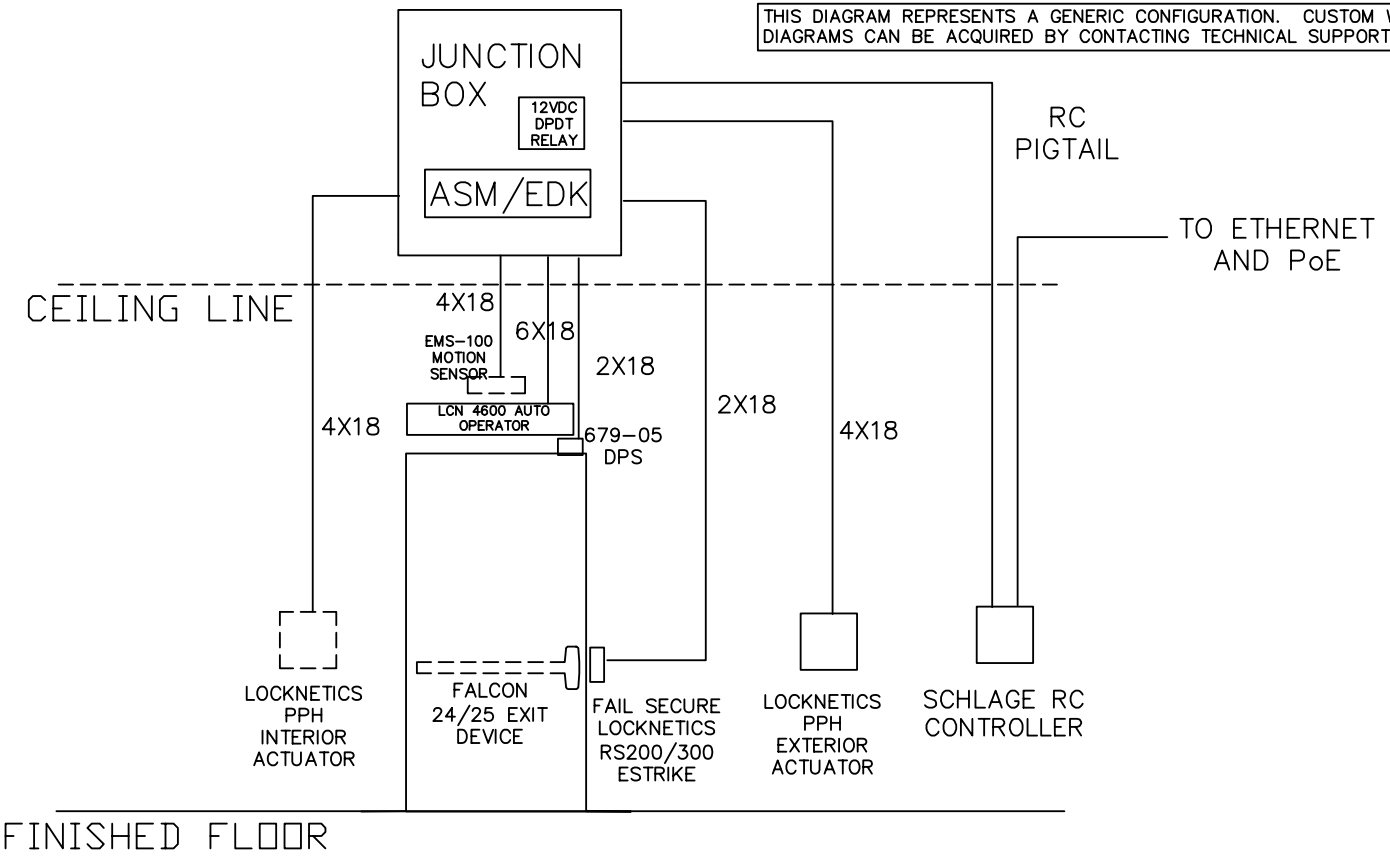
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113740W

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- SCHLAGE RC CONTROLLER
- SCHLAGE RC PIGTAIL
- SCHLAGE ASM/EDK MODULE
- LOCKNETICS RS200/300 ESTRIKE
- LOCKNETICS EMS-100 MOTION SENSOR
- SCHLAGE 679-05 DPS
- 12 VDC DPDT RELAY
- LCN 4600 AUTO OPERATOR
- 2 LOCKNETICS PPH ACUTUATORS
- JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE AND WILL ENABLE EXTERIOR ACTUATOR TO OPEN DOOR VIA AUTO OPERATOR.

INTERIOR ACTUATOR ALWAYS ACTIVE.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-15-20

REVISION DATE: 10-15-20

ALLEGION™

TITLE: SCHLAGE RC CONTROLLER, ESTRIKE AD, DPS, MOTION SENSOR, SINGLE DOOR

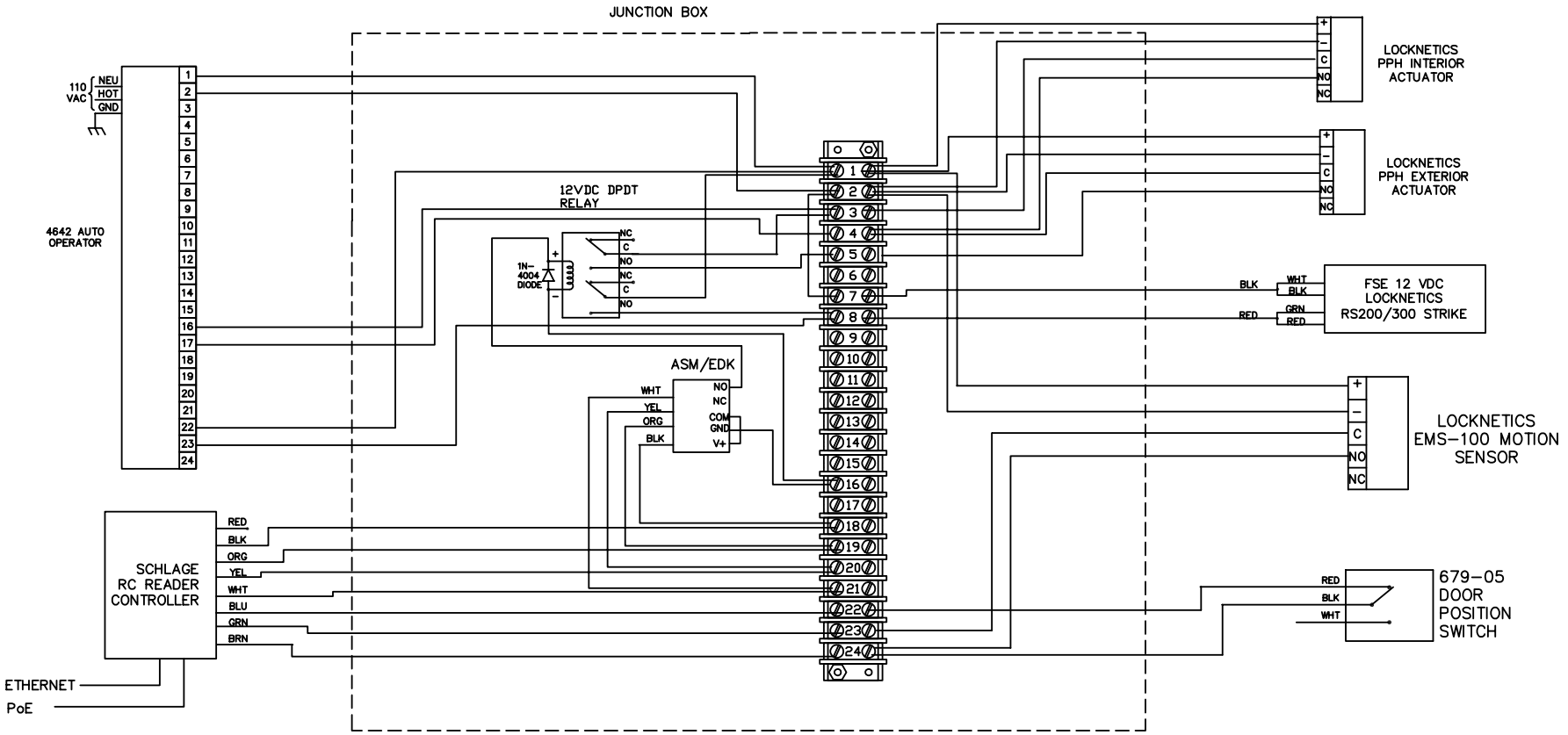
DRAWING TYPE: RISER DIAGRAM

DWG NO: 113752R

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

HARDWARE USED:

SCHLAGE RC CONTROLLER
SCHLAGE RC PIGTAIL
SCHLAGE ASM/EDK MODULE
LOCKNETICS RS200/300 ESTRIKE
LOCKNETICS EMS-100 MOTION SENSOR
SCHLAGE 679-05 DPS
12 VDC DPDT RELAY
LCN 4600 AUTO OPERATOR
2 LOCKNETICS PPH ACUTUATORS
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE AND WILL ENABLE EXTERIOR ACTUATOR TO OPEN DOOR VIA AUTO OPERATOR.

INTERIOR ACTUATOR ALWAYS ACTIVE.

MOTION SENSOR TO SHUNT DOOR FORCED ALARM

FREE EGRESS AT ALL TIMES

DATE DRAWN: 10-15-20

REVISION DATE: 10-15-20

ALLEGION™

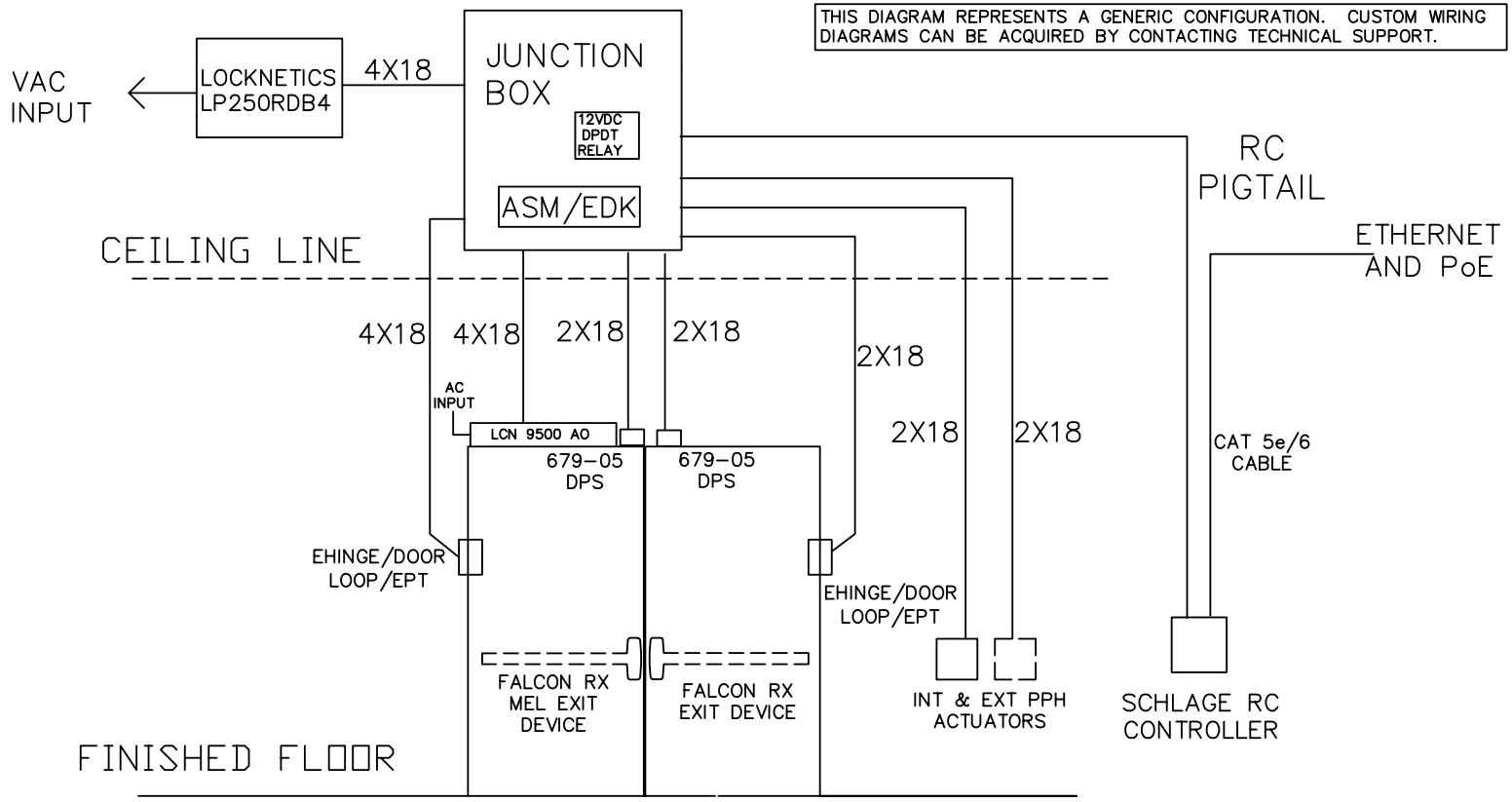
TITLE: SCHLAGE RC CONTROLLER, ESTRIKE AO, DPS, MOTION SENSOR, SINGLE DOOR

DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113752W

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
SCHLAGE RC CONTROLLER
SCHLAGE RC PIGTAIL
SCHLAGE ASM/EDK MODULE
1 FALCON RX MEL 24/25 EXIT DEVICE
1 FALCON RX 24/25 EXIT DEVICE
2 DOOR LOOP OR EHINGE OR EPT
LCN 9500 AO
2 LOCKNETICS PPH ACTUATORS
LOCKNETICS LP250RDB4
2 SCHLAGE 679-05 DPS
1 12 VDC DPDT RELAY
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL SIGNALS MEL LATCH RETRACTION, LHR LEAF, AND ENABLES EXTERIOR ACTUATOR. INTERIOR ACTUATOR ALWAYS ACTIVE.

RX SWITCHES IN EXIT DEVICES TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-20-20

REVISION DATE: 10-20-20

ALLEGION™

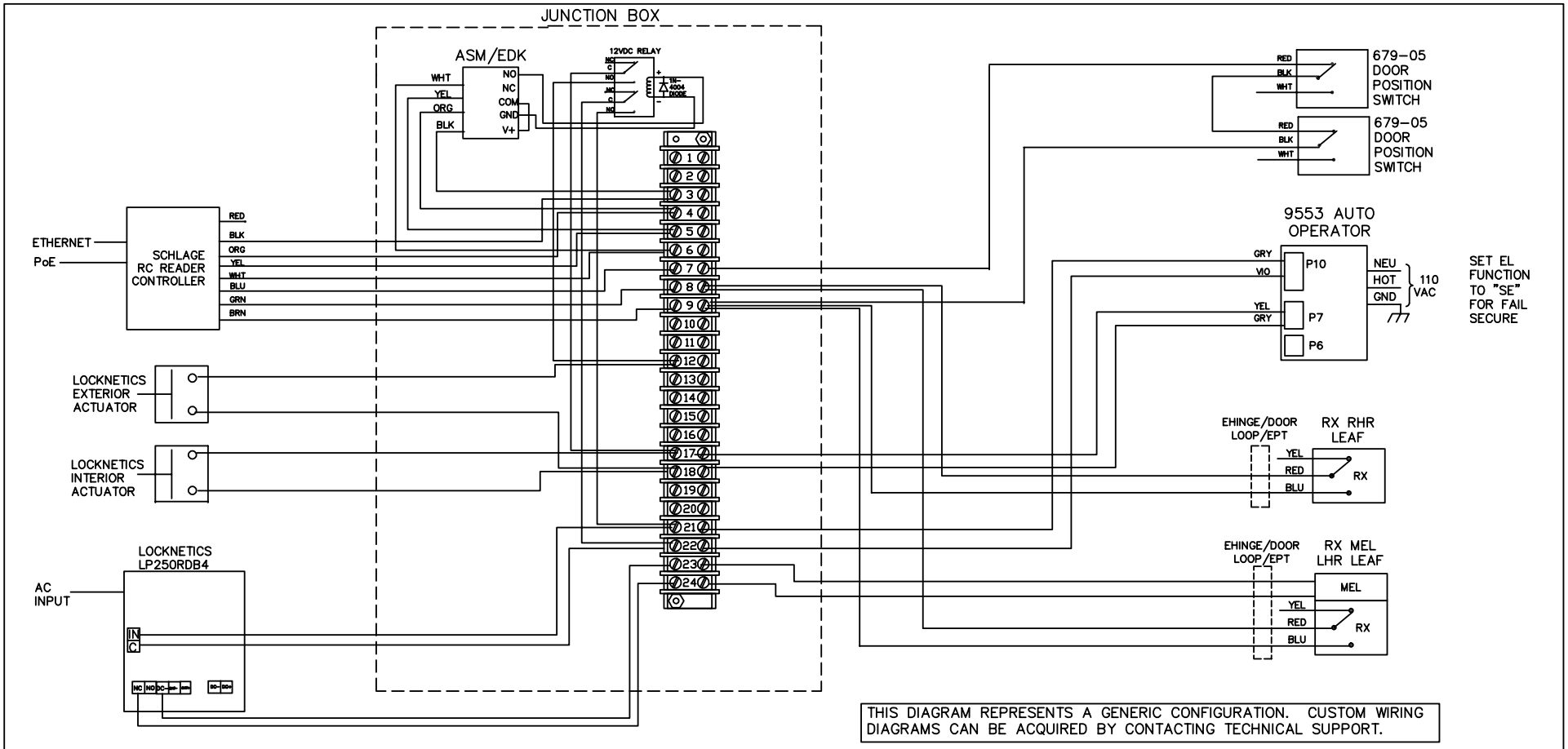
TITLE:
SCHLAGE RC CONTROLLER WITH RX MEL, RX, 9500 AO, DPS, LP250 PAIR OF DOORS

DRAWING TYPE: RISER DIAGRAM

DWG NO: 113768R

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

REV: A




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

SCHLAGE RC CONTROLLER
SCHLAGE RC PIGTAIL
SCHLAGE ASM/EDK MODULE
1 FALCON RX MEL 24/25 EXIT DEVICE
1 FALCON RX 24/25 EXIT DEVICE
2 DOOR LOOP OR EHINGE OR EPT
LCN 9500 AO
2 LOCKNETICS PPH ACTUATORS
LOCKNETICS LP250RDB4
2 SCHLAGE 679-05 DPS
1 12 VDC DPDT RELAY
JUNCTION BOX

OPERATION:
DOORS NORMALLY CLOSED AND LOCKED.

ENTRY BY VALID CREDENTIAL OR KEY OVERRIDE. CREDENTIAL SIGNALS MEL LATCH RETRACTION, LHR LEAF, AND ENABLES EXTERIOR ACTUATOR. INTERIOR ACTUATOR ALWAYS ACTIVE.

RX SWITCHES IN EXIT DEVICES TO SHUNT DOOR FORCED ALARM.

CONFIRM PoE SOURCE SUFFICIENT FOR LOAD.

FREE EGRESS AT ALL TIMES.

DATE DRAWN: 10-20-20

REVISION DATE: 10-20-20

ALLEGION™

TITLE:
SCHLAGE RC CONTROLLER WITH RX MEL, RX, 9500 AO, DPS, LP250 PAIR OF DOORS

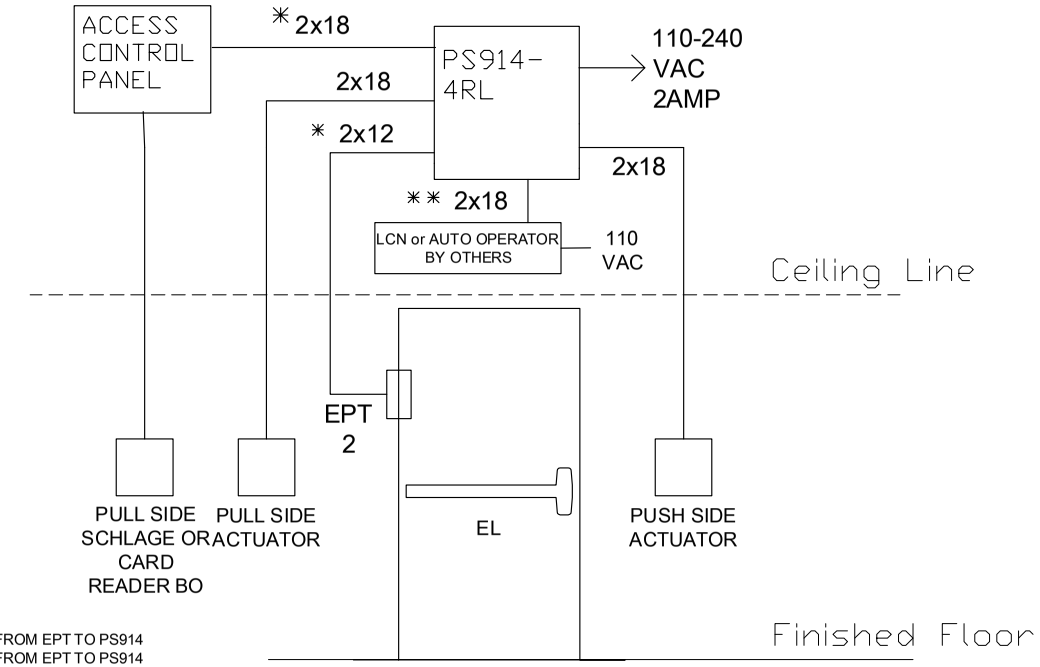
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 113768W

REV: A

DRAWN/CHECKED BY: DOVE/TAMARCHENKO

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914
**ADDITIONAL WIRING IS REQUIRED. SEE MANUFACTURER INSTALLATION INSTRUCTION

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 1 VONDUPRIN OR FALCON EL PANIC DEVICE
- 1 SCHLAGE OR CARD READER BY OTHERS WITH ACP
- 2 ACTUATORS
- 1 PS914-4RL POWER SUPPLY
- 1 EPT POWER TRANSFER
- 1 LCN OR AUTO OPERATOR BY OTHERS

TYPE: IR EL PANIC WITH AO

OPERATION:

PUSH SIDE ACTUATOR TO RETRACT THE ELECTRIC PANIC BAR AND OPEN THE DOOR.

PULL SIDE SCHLAGE OR CARD READER BO TO RETRACT THE ELECTRIC PANIC BAR AND ENABLE THE PULL SIDE ACTUATOR TO OPEN THE DOOR.

THIS CONFIGURATION REPRESENTS A NON FIRE RATED OPENING.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS914 ENCLOSURE.

DATE DRAWN: 3-20-13

REVISION DATE: 07-03-17

ALLEGION™

TITLE: PS914-4RL AS AO WITH EL PANIC

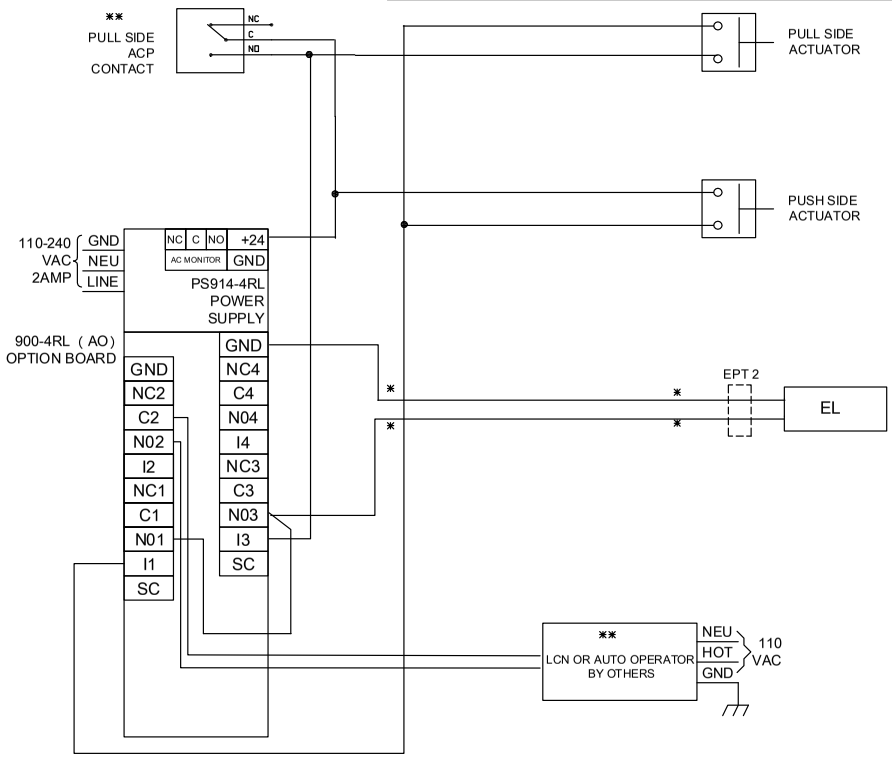
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109441

DRAWN/CHECKED BY: BRENDA DOVE

REV: D

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




SET 900-4RL CARD:
SW2 PACK-SW1 OFF AND SW2 ON.
SW1 PACK-SW1 ON, SW2 OFF, SW3 AND SW4 OFF AND OTHER SWITCHES AS REQUIRED FOR INSTALLTION. SEE 900-4RL INSTALLATION INSTRUCTIONS FOR DETAILS.

PROGRAM C2 AND NO2 FOR DRY CONTACT.

SET ALL OTHER SWITCHES AS REQUIRED FOR INSTALLATION

NOTE:
*USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914
**ADDITIONAL WIRING IS REQUIRED. SEE MANUFACTURER INSTALLATION INSTRUCTION

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
1 VONDUPRIN OR FALCON EL PANIC DEVICE
1 SCHLAGE OR CARD READER BY OTHERS WITH ACP
2 ACTUATORS
1 PS914-4RL POWER SUPPLY
1 EPT POWER TRANSFER
1 LCN OR AUTO OPERATOR BY OTHERS

TYPE: IR EL PANIC WITH AO

OPERATION:

PUSH SIDE ACTUATOR TO RETRACT THE ELECTRIC PANIC BAR AND OPEN THE DOOR.

PULL SIDE SCHLAGE OR CARD READER BO TO RETRACT THE ELECTRIC PANIC BAR AND ENABLE THE PULL SIDE ACTUATOR TO OPEN THE DOOR.

THIS CONFIGURATION REPRESENTS A NON FIRE RATED OPENING.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS914 ENCLOSURE.

DATE DRAWN: 3-20-13
REVISION DATE: 07-03-17

ALLEGION™

TITLE: PS902-4RL AS AO WITH QEL PANIC

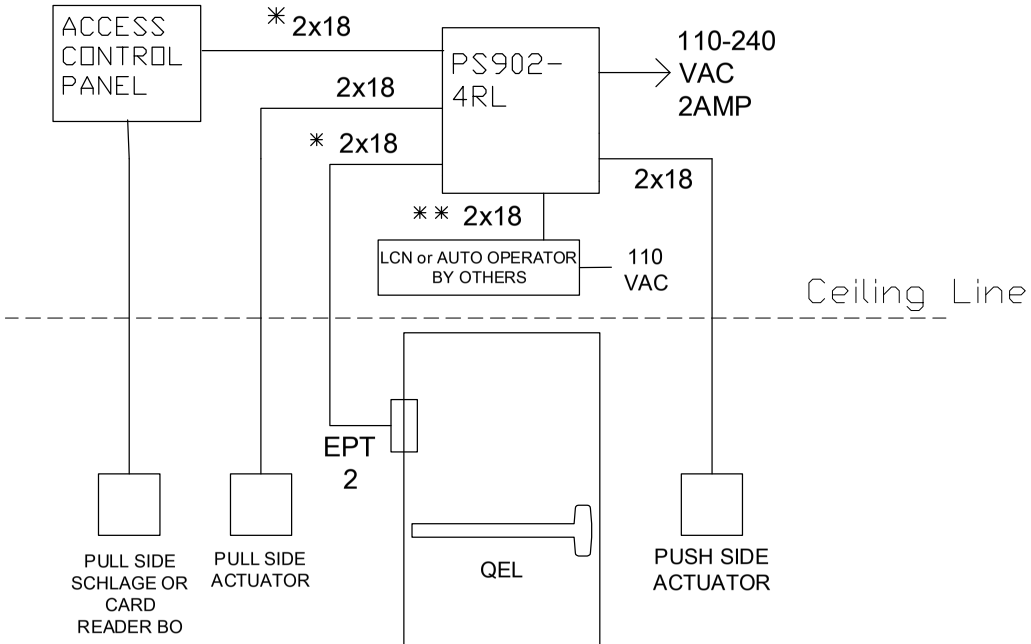
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 021618-2R

DRAWN/CHECKED BY: B DOVE/ B DYE

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*USE #18 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS902
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 500' FROM EPT TO PS902
**ADDITIONAL WIRING IS REQUIRED. SEE MANUFACTURER INSTALLATION INSTRUCTION

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
1 VONDUPRIN QEL PANIC DEVICE
1 SCHLAGE OR CARD READER BY OTHERS WITH ACP
2 ACTUATORS
1 PS902-4RL POWER SUPPLY
1 EPT POWER TRANSFER
1 LCN OR AUTO OPERATOR BY OTHERS

TYPE QEL PANIC WITH AO

OPERATION:

PUSH SIDE ACTUATOR TO RETRACT THE QUIETELECTRIC PANIC BAR AND OPEN THE DOOR.

PULL SIDE SCHLAGE OR CARD READER BO TO RETRACT THE ELECTRIC PANIC BAR AND ENABLE THE PULL SIDE ACTUATOR TO OPEN THE DOOR.

THIS CONFIGURATION REPRESENTS A NON FIRE RATED OPENING.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS902 ENCLOSURE.

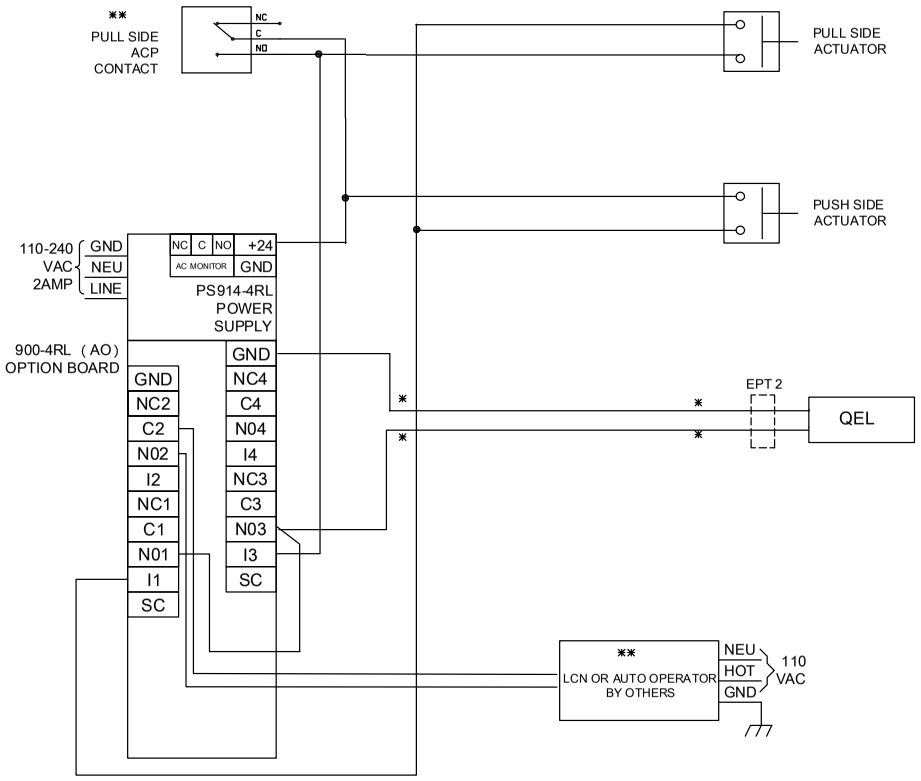
DATE DRAWN: 02-16-18
REVISION DATE: 02-16-18

ALLEGION™

TITLE: PS902-4RL AS AO WITH QEL PANIC

DRAWING TYPE: RISER DIAGRAM
DWG NO: 112132R
DRAWN/CHECKED BY: BRENDA DOVE
REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




SET 900-4RL CARD:
SW2 PACK-SW1 OFF AND SW2 ON.
SW1 PACK-SW1 ON, SW2 OFF, SW3 AND SW4 OFF AND OTHER SWITCHES AS REQUIRED FOR INSTALLTION. SEE 900-4RL INSTALLATION INSTRUCTIONS FOR DETAILS.

PROGRAM C2 AND NO2 FOR DRY CONTACT.

SET ALL OTHER SWITCHES AS REQUIRED FOR INSTALLATION

NOTE:
*USE #18 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS902
*USE #14 GAUGE WIRE FOR DISTANCES UP TO 500' FROM EPT TO PS902
**ADDITIONAL WIRING IS REQUIRED. SEE MANUFACTURER INSTALLATION INSTRUCTION

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
1 VONDUPRIN QEL PANIC DEVICE
1 SCHLAGE OR CARD READER BY OTHERS WITH ACP
2 ACTUATORS
1 PS902-4RL POWER SUPPLY
1 EPT POWER TRANSFER
1 LCN OR AUTO OPERATOR BY OTHERS

TYPE: QEL PANIC WITH AO

OPERATION:

PUSH SIDE ACTUATOR TO RETRACT THE QUIET ELECTRIC PANIC BAR AND OPEN THE DOOR.

PULL SIDE SCHLAGE OR CARD READER BO TO RETRACT THE ELECTRIC PANIC BAR AND ENABLE THE PULL SIDE ACTUATOR TO OPEN THE DOOR.

THIS CONFIGURATION REPRESENTS A NON FIRE RATED OPENING.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS902 ENCLOSURE.

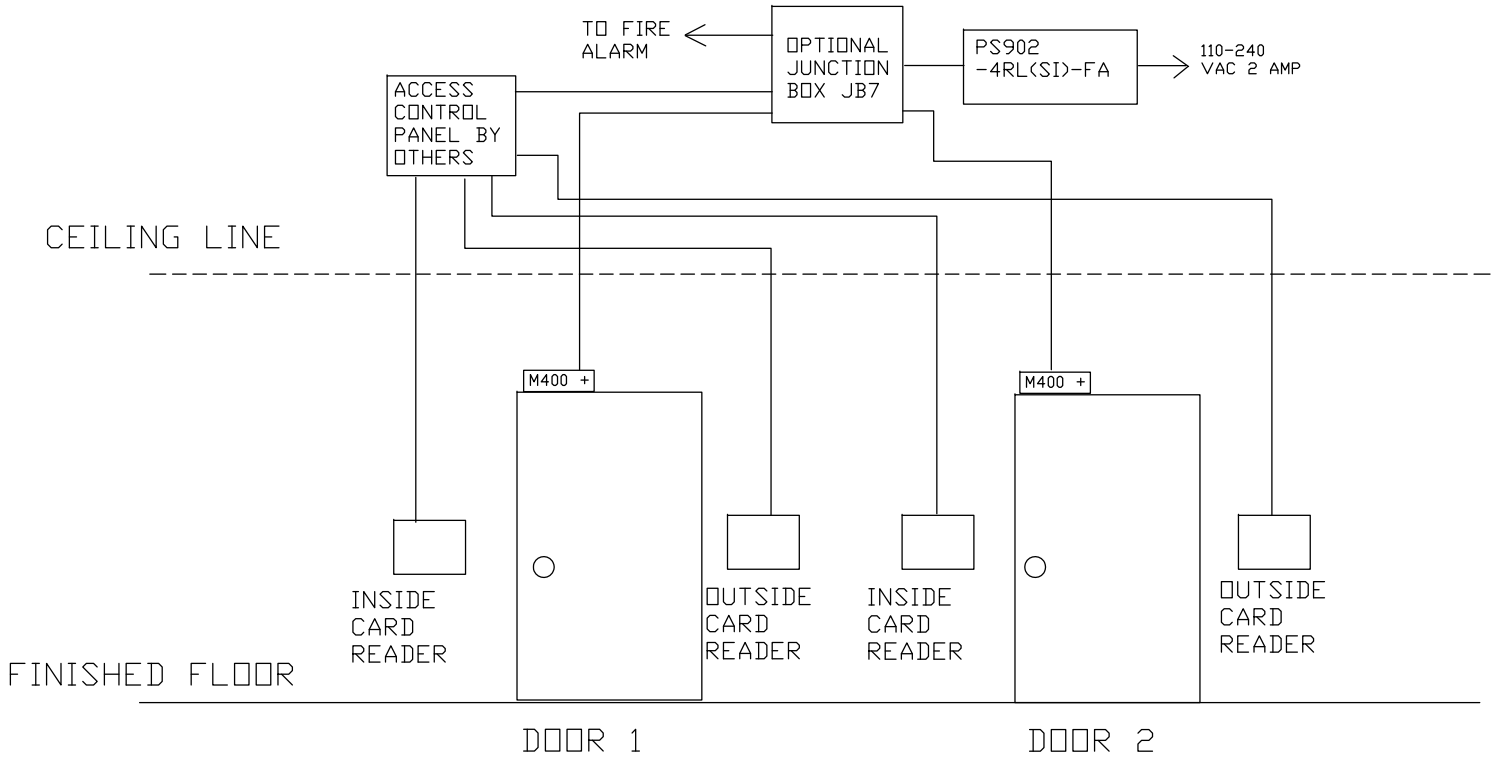
DATE DRAWN: 02-16-18
REVISION DATE: 02-16-18

ALLEGION™

TITLE: PS902-4RL AS AO WITH QEL PANIC

DRAWING TYPE: WIRING DIAGRAM
DWG NO: 112132W
DRAWN/CHECKED BY: B DOVE
REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 - PS902-4RL-FA
2 - M400 PLUS MAGLOCK
4 - CARDREADER 7 ACCESS CONTROL PANEL BY OTHERS
1 - FIRE ALARM CONTACT BY OTHERS
1 - OPTIONAL JUNCION BOX, JB7 BY VON DUPRIN

TYPE
2 DOOR SECURITY INTERLOCK

OPERATION:
DOOR 1 & 2 SHOWN LOCKED & CLOSED.

UNLOCKING DOOR 1 PREVENTS DOOR 2 FROM UNLOCKING UNTIL DOOR 1 IS CLOSED.

UNLOCKING DOOR 2 PREVENTS DOOR 1 FROM UNLOCKING UNTIL DOOR 2 IS CLOSED

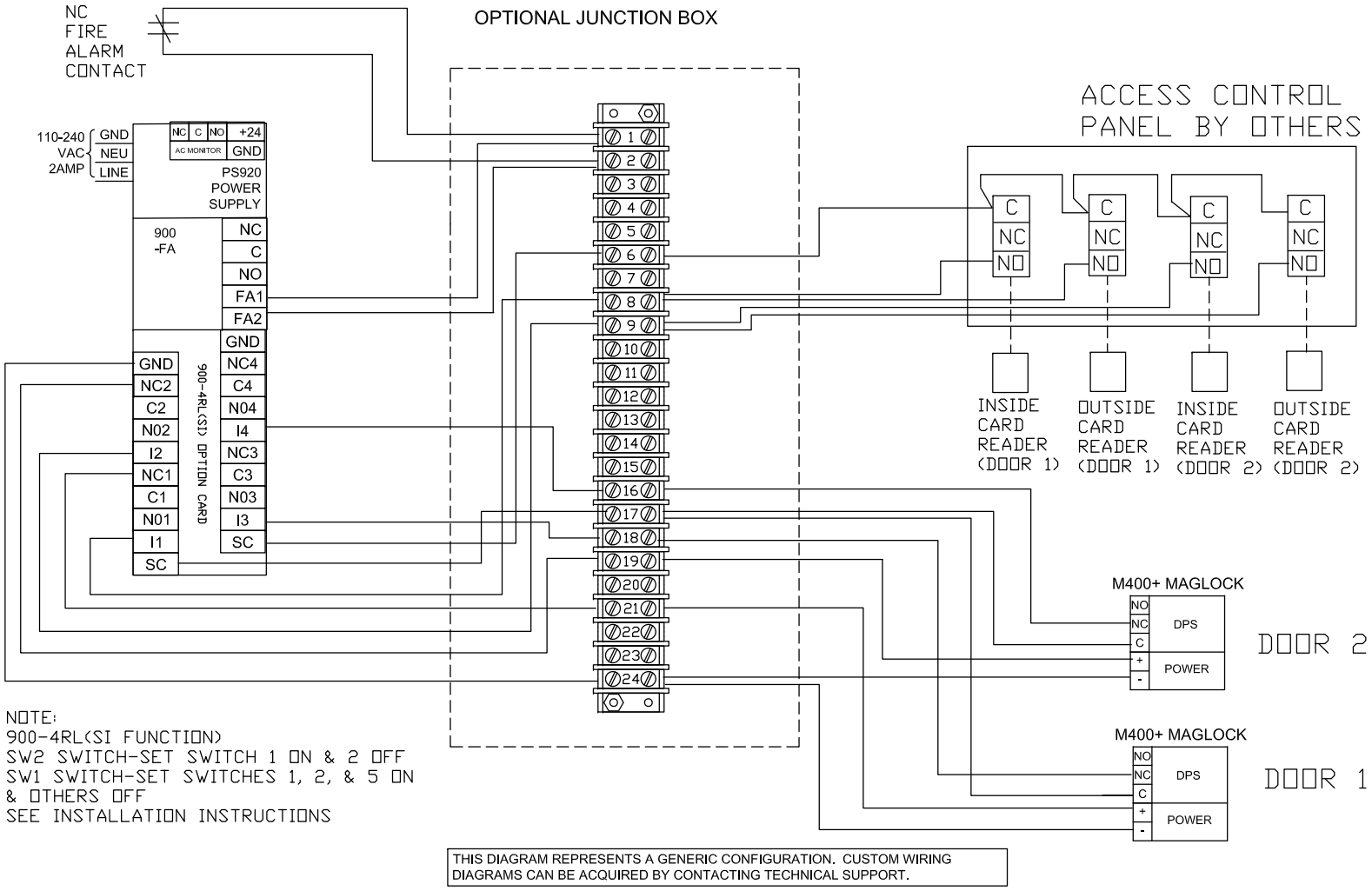
FIRE ALARM UNLOCKS BOTH DOORS.

| DATE DRAWN: 03-26-13 | REVISION DATE: 04-16-14 |
|---|---|
| DRAWN BY: B DOVE | APPROVED BY: MH |

ALLEGION™

TITLE:
2 DOORS PS902-4RL(SI)-fa X 2 M400 PLUS MAGLOCKS X 2 CARD READERS

| DRAWING TYPE: RISER | DWG NO: 104967 | REV D |
|---|---|---|
| | DRAWN/CHECKED BY: B DOVE | |




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 - PS902-4RL-FA
2 - M400 PLUS MAGLOCK
4 - CARDREADER 7 ACCESS CONTROL PANEL BY OTHERS
1 - FIRE ALARM CONTACT BY OTHERS
1 - OPTIONAL JUNCION BOX, JB7 BY VON DUPRIN

TYPE
2 DOOR SECURITY INTERLOCK

OPERATION:
DOOR 1 & 2 SHOWN LOCKED & CLOSED.

UNLOCKING DOOR 1 PREVENTS DOOR 2 FROM UNLOCKING UNTIL DOOR 1 IS CLOSED.

UNLOCKING DOOR 2 PREVENTS DOOR 1 FROM UNLOCKING UNTIL DOOR 2 IS CLOSED

FIRE ALARM UNLOCKS BOTH DOORS.

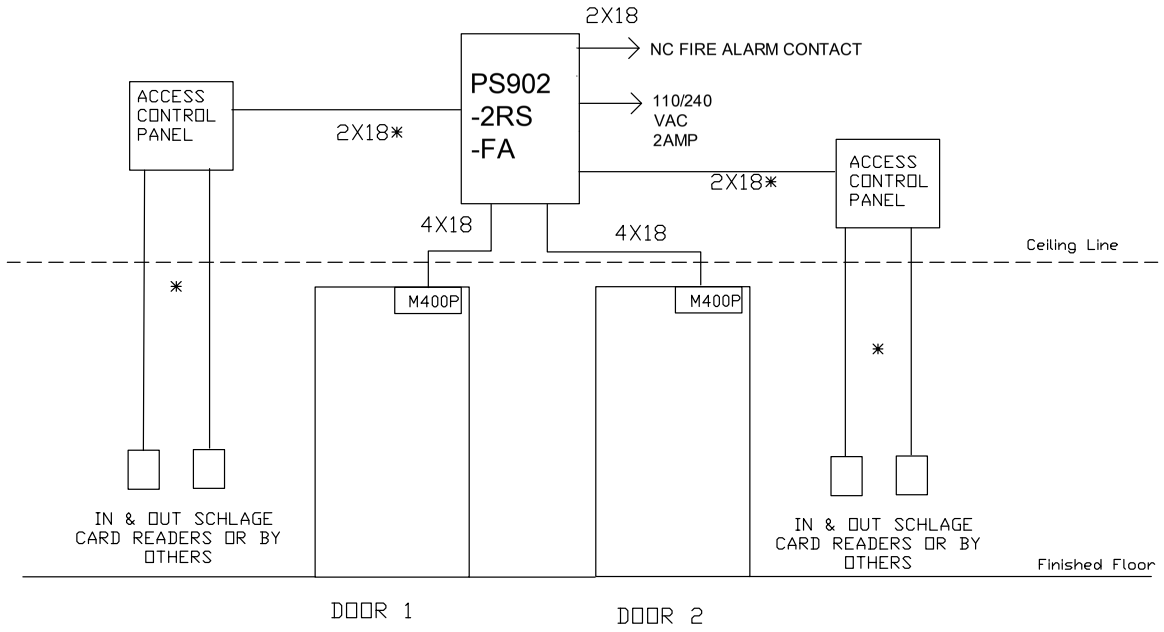
DATE DRAWN: 03-26-13
REVISION DATE: 04-16-14
DRAWN BY: B DOVE
APPROVED BY: MH

ALLEGION™

TITLE:
2 DOORS PS902-4RL(SI)-fa X 2 M400 PLUS MAGLOCKS X 2 CARD READERS

DRAWING TYPE: WIRING
DWG NO: 104967
DRAWN/CHECKED BY: B DOVE
REV: D

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




VERIFY OPERATION
ACCEPTABLE TO LOCAL AHJ.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

Hardware Used:

2 M400P MAGNETIC LOCKS

PS902-2RS-FA POWER SUPPLY

4 SCHLAGE CARD READERS OR BY OTHERS AND ACP

FIRE ALARM CONTACT BY OTHERS

Type
SECURITY INTERLOCK
2 DOOR

OPERATION:

SECURITY INTERLOCK - BOTH DOORS NORMALLY LOCKED. PRESENTING A VALID CREDENTIAL TO THE CARD READERS WILL RELEASE DOOR IF OTHER DOOR IS CLOSED AND LOCKED.

OPPOSITE DOOR REMAINS LOCKED AS LONG AS OTHER DOOR REMAINS UNLOCKED.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

FIRE ALARM TO RELEASE BOTH M490 MAG LOCKS.

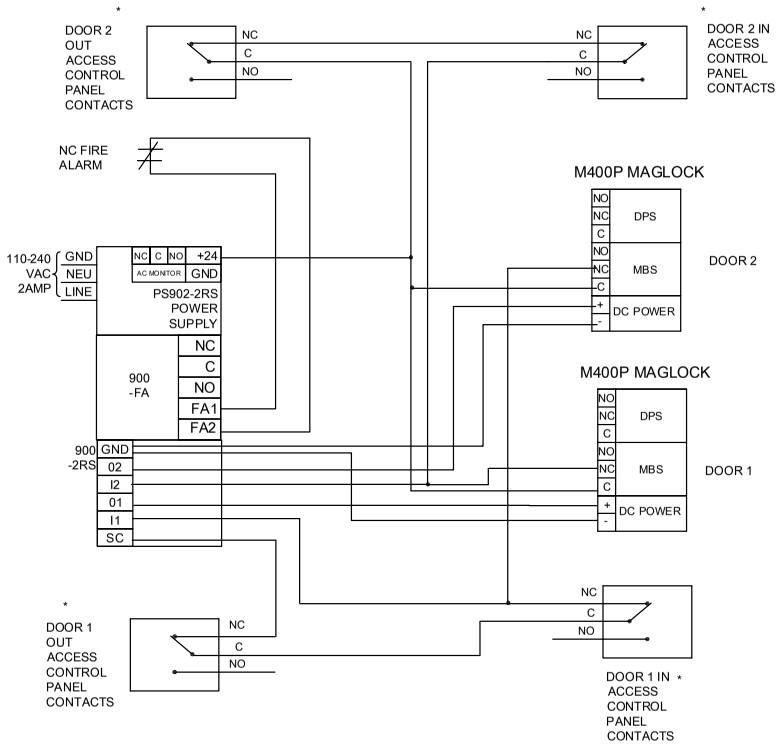
| Date Drawn: | Revision Date: |
|---|---|
| 3-13-13 | 07-03-17 |

ALLEGION™

TITLE: 2 Door PS902-2RS-FA x 2 M400 Plus Maglocks x 4 Card Readers

| DRAWING TYPE: | DWG NO: | REV |
|---|---|---|
| RISER | 109438 | C |
| | DRAWN/CHECKED BY: B DOVE/ B DYE | |

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




VERIFY OPERATION ACCEPTABLE TO LOCAL AHJ.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

Hardware Used:

2 M400P MAGNETIC LOCKS

PS902-2RS-FA POWER SUPPLY

4 SCHLAGE CARD READERS OR BY OTHERS WITH ACP

FIRE ALARM CONTACT BY OTHERS

Type
SECURITY INTERLOCK
2 DOOR

OPERATION:

SECURITY INTERLOCK - BOTH DOORS NORMALLY LOCKED. PRESENTING A VALID CREDENTIAL TO THE CARD READERS WILL RELEASE DOOR IF OTHER DOOR IS CLOSED AND LOCKED.

OPPOSITE DOOR REMAINS LOCKED AS LONG AS OTHER DOOR REMAINS UNLOCKED.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

FIRE ALARM TO RELEASE BOTH M490 MAG LOCKS.

Date Drawn: 3-13-13

Revision Date: 07-03-17

ALLEGION™

TITLE: 2 Door PS902-2RS-FA x 2 M400 Plus Maglocks x 4 Card Readers

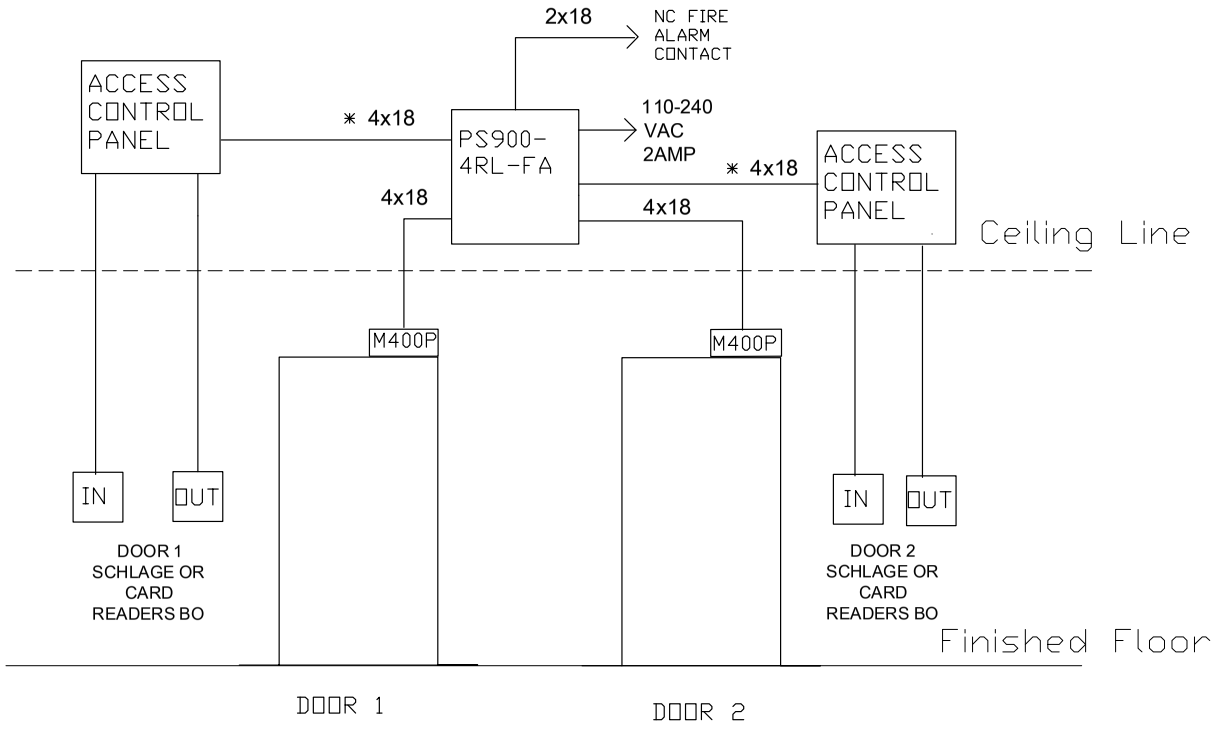
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109438

DRAWN/CHECKED BY: B DOVE/ B DYE

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:

SET SW2 SWITCHES 1 ON AND 2 OFF TO CONFIG 900-4RL AS SI.
SET SW1 SWITCHES AS REQUIRED FOR PARTICULAR INSTALLATION.

* ADDITIONAL CONDUCTORS MAY BE REQUIRED. CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

CONFIRM HARDWARE AND OPERATION ACCEPTABLE TO LOCAL AHJ.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

2 M400P MAG LOCKS

4 SCHLAGE OR CARD READER BY OTHERS WITH ACP

1 PS900-4RL-FA

FIRE ALARM CONTACT BY OTHERS

TYPE 2 DOOR SECURITY INTERLOCK WITH ACCESS CONTROL

OPERATION:

BOTH DOORS NORMALLY LOCKED. CARD READER TO OPEN DOOR ONLY IF OTHER DOOR IS CLOSED AND LOCKED.

NOTE, OPPOSITE DOOR WILL REMAIN LOCKED AS LONG AS OTHER DOOR IS UNLOCKED.

FIRE ALARM TO RELEASE BOTH M490 MAG LOCKS.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS900 ENCLOSURE.

DATE DRAWN: 3-21-13

REVISION DATE: 07-03-17

ALLEGION™

TITLE: PS900-4RL-FA SECURITY INTERLOCK WITH M400P MAG LOCKS

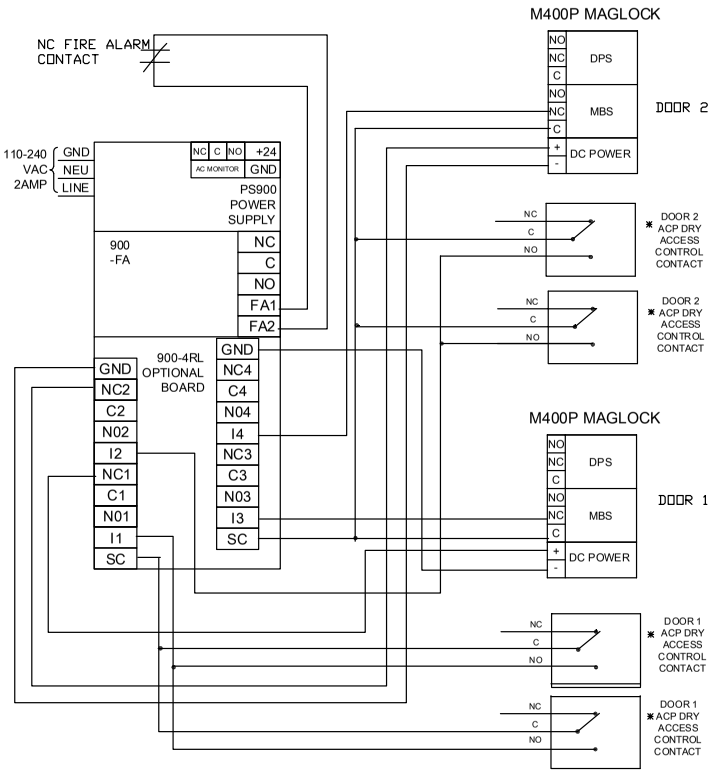
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109442

DRAWN/CHECKED BY: B DOVE/B DYE

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:

SET SW2 SWITCHES 1 ON AND 2 OFF TO CONFIG 900-4RL AS SI.
SET SW1 SWITCHES AS REQUIRED FOR PARTICULAR INSTALLATION.

* ADDITIONAL CONDUCTORS MAY BE REQUIRED. CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

CONFIRM HARDWARE AND OPERATION ACCEPTABLE TO LOCAL AHJ.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

2 M400P MAG LOCKS

4 SCHLAGE OR CARD READER BY OTHERS WITH ACP

1 PS900-4RL-FA

FIRE ALARM CONTACT BY OTHERS

TYPE 2 DOOR SECURITY INTERLOCK WITH ACCESS CONTROL

OPERATION:

BOTH DOORS NORMALLY LOCKED. CARD READER TO OPEN DOOR ONLY IF OTHER DOOR IS CLOSED AND LOCKED.

NOTE, OPPOSITE DOOR WILL REMAIN LOCKED AS LONG AS OTHER DOOR IS UNLOCKED.

FIRE ALARM TO RELEASE BOTH M490 MAG LOCKS.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS900 ENCLOSURE.

DATE DRAWN: 3-21-13

REVISION DATE: 07-03-17

ALLEGION™

TITLE:
PS900-4RL-FA SECURITY INTERLOCK WITH M400P MAG LOCKS

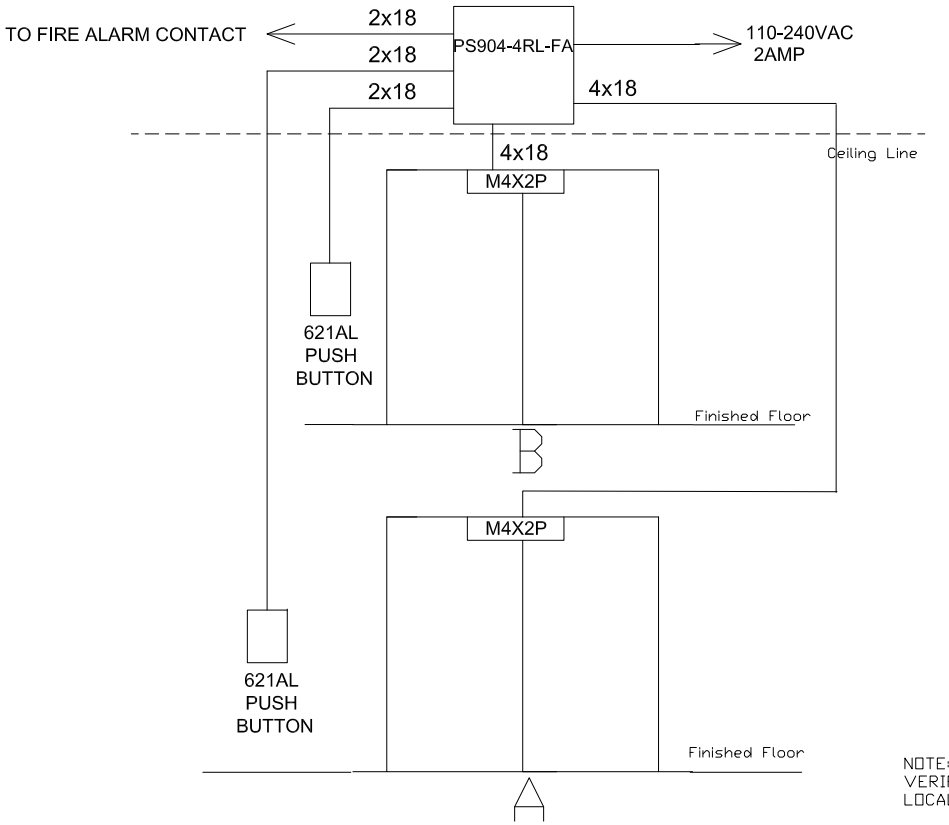
DRAWING TYPE:
RISER DIAGRAM

DWG NO: 109442

DRAWN/CHECKED BY:
B DOVE/B DYE

REV
C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
VERIFY HARDWARE AND OPERATION ACCEPTABLE TO LOCAL AHJ.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
2 M4X2P MAG LOCKS

2 621AL PUSH BUTTONS

1 PS904-4RL-FA POWER SUPPLY

FIRE ALARM CONTACT SUPPLIED BY OTHERS

TYPE
2 DOOR SAFETY INTERLOCK WITH OVERRIDE BUTTONS

DOORS ARE INTERLOCKED WITH EACH OTHER. BOTH DOORS ARE UNLOCKED UNTIL ONE DOOR IS OPENED THEN THE OTHER PAIR OF DOORS WILL BE LOCKED.

EITHER PUSHBUTTON OR FIRE ALARM CONTACT WILL DEACTIVATE BOTH MAGLOCKS.

IN THIS EXAMPLE ALL CONNECTIONS ARE MADE IN THE PS904 ENCLOSURE.

DATE DRAWN: 3-21-13

REVISION DATE: 3-21-13

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ALLEGION™

TITLE:
PS904 -4RL-FA, M4X2P
SAFETY INTERLOCK

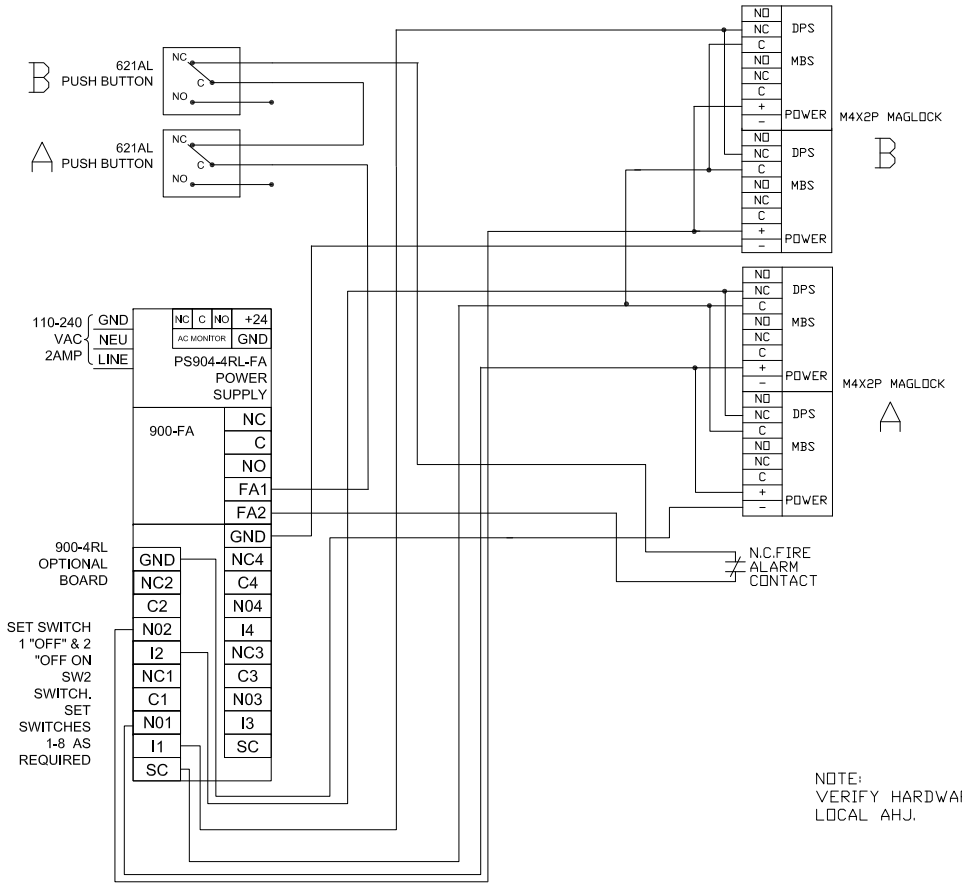
DRAWING TYPE:
RISER DIAGRAM

DWG NO: 109443

DRAWN/CHECKED BY: B DOVE

REV
A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
VERIFY HARDWARE AND OPERATION ACCEPTABLE TO LOCAL AHJ.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
2 M4X2P MAG LOCKS

2 621AL PUSH BUTTONS

1 PS904-4RL-FA POWER SUPPLY

FIRE ALARM CONTACT SUPPLIED BY OTHERS

TYPE
2 DOOR SAFETY INTERLOCK WITH OVERRIDE BUTTONS

DOORS ARE INTERLOCKED WITH EACH OTHER. BOTH DOORS ARE UNLOCKED UNTIL ONE DOOR IS OPENED THEN THE OTHER PAIR OF DOORS WILL BE LOCKED.

EITHER PUSHBUTTON OR FIRE ALARM CONTACT WILL DEACTIVATE BOTH MAGLOCKS.

IN THIS EXAMPLE ALL CONNECTIONS ARE MADE IN THE PS904 ENCLOSURE.

DATE DRAWN: 3-21-13

REVISION DATE: 3-21-13

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ALLEGION™

TITLE:
PS904 -4RL-FA, M4X2P
SAFETY INTERLOCK

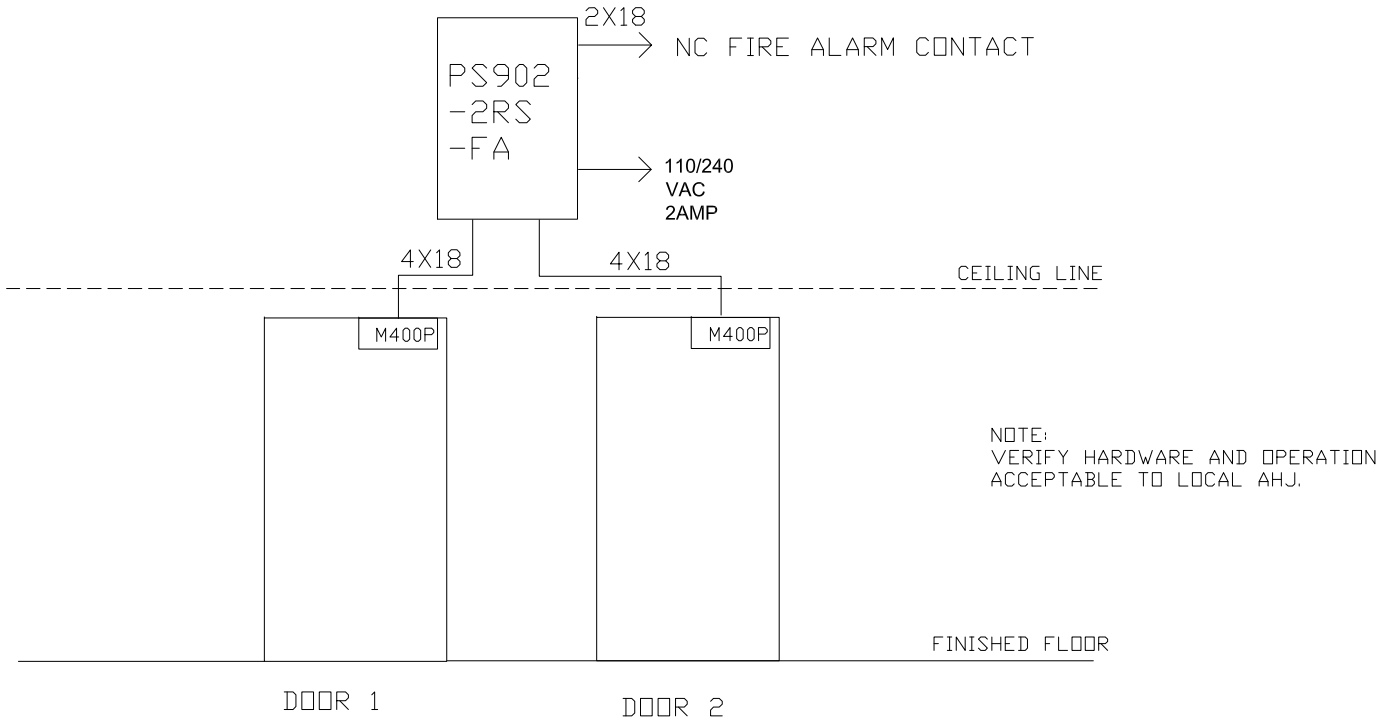
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109443

DRAWN/CHECKED BY: B DOVE

REV A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
VERIFY HARDWARE AND OPERATION ACCEPTABLE TO LOCAL AHJ.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

2 M400P MAGNETIC LOCKS

1 PS902-2RS-FA POWER SUPPLY

FIRE ALARM CONTACT SUPPLIED BY OTHERS

TYPE

2 DOOR SAFETY INTERLOCK

OPERATION:

SAFETY INTERLOCK - WHEN ONE DOOR OPENS OTHER DOOR LOCKS. WHEN BOTH DOORS CLOSED BOTH ARE UNLOCKED

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

FIRE ALARM TO RELEASE BOTH M400P MAG LOCKS

DATE DRAWN: 3-14-13

REVISION DATE: 3-14-13

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ALLEGION™

TITLE: PS902-2RS-FA x 2 M400+ MAG LOCKS X 4 CARD READERS

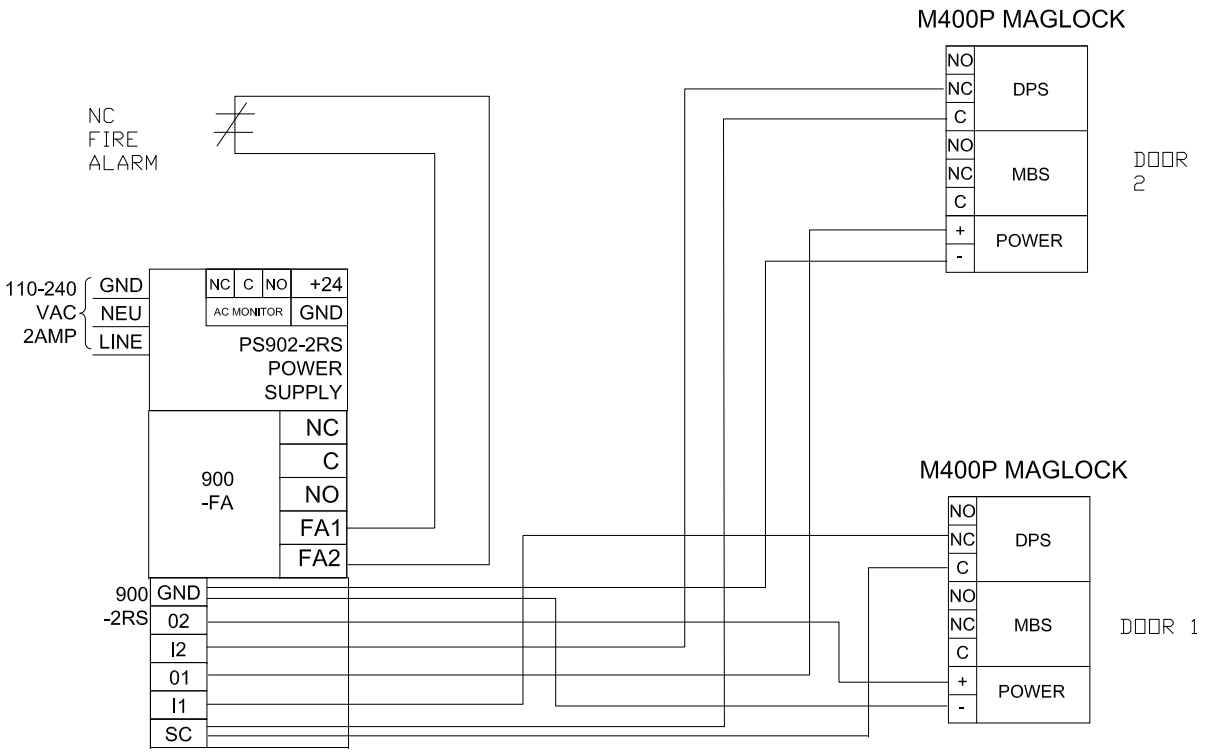
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109437

DRAWN/CHECKED BY: B DOVE

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
VERIFY HARDWARE AND OPERATION ACCEPTABLE TO LOCAL AHJ.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

2 M400P MAGNETIC LOCKS

1 PS902-2RS-FA POWER SUPPLY

FIRE ALARM CONTACT SUPPLIED BY OTHERS

TYPE

2 DOOR SAFETY INTERLOCK

OPERATION:

SAFETY INTERLOCK - WHEN ONE DOOR OPENS OTHER DOOR LOCKS. WHEN BOTH DOORS CLOSED BOTH ARE UNLOCKED

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

FIRE ALARM TO RELEASE BOTH M400P MAG LOCKS

DATE DRAWN: 3-14-13

REVISION DATE: 3-14-13

copyright 2013

ALLEGION™

TITLE:
PS902-2RS-FA x 2 M400+ MAG LOCKS X 4 CARD READERS

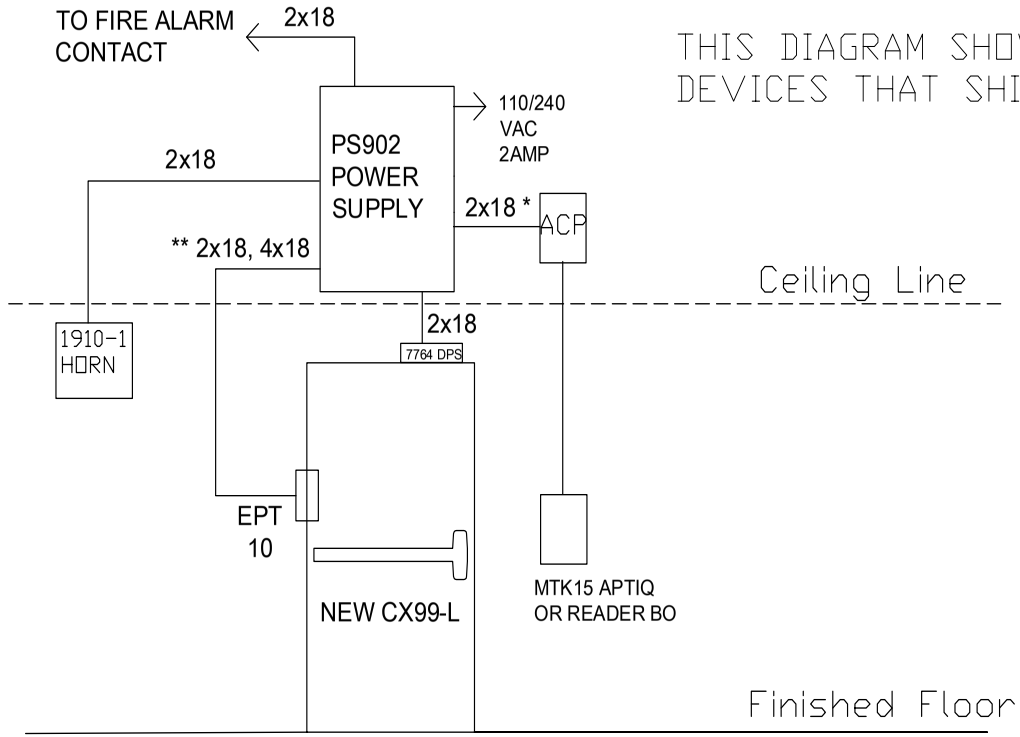
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109437

DRAWN/CHECKED BY: B DOVE

REV A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




THIS DIAGRAM SHOWS WIRING FOR CX DEVICES THAT SHIPPED AFTER 08-24-15

* CONDUCTOR COUNT AND CONNECTIONS TO BE DETERMINED BY ACP PROVIDER

** USE 18 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS902 OR USE 14 GAUGE FOR DISTANCES UP TO 500' FROM EPT TO PS902

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

1 NEW CX 98/99-L RIM DEVICE
1 EPT10
1 7764 DPS
1 1910-1 HORN
1 PS902
1 MTK15 READER BY ACP BO
1 FIRE ALARM CONTACT

TYPE DELAYED EGRESS SINGLE DOOR

OPERATION:

CHEXIT TO PROVIDE DELAY EGRESS. WHEN CX IS IN ALARM AUDIBLE WILL SOUND IN CX DEVICE AND EXTERNAL 1910-1 HORN.

FIRE ALARM TO RELEASE DOOR FOR IMMEDIATE EGRESS.

MTK15 READER TO RELEASE CX THROUGH ACP CONTROL CONTACT FOR AUTHORIZED PASSAGE . MTK15 OR KEYSWITCH IN CX DEVICE TO RESET CX FROM ALARM.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

DATE DRAWN: 07-11-18

REVISION DATE: 07-11-18

ALLEGION™

TITLE: CX SINGLE DOOR CX WITH PS902

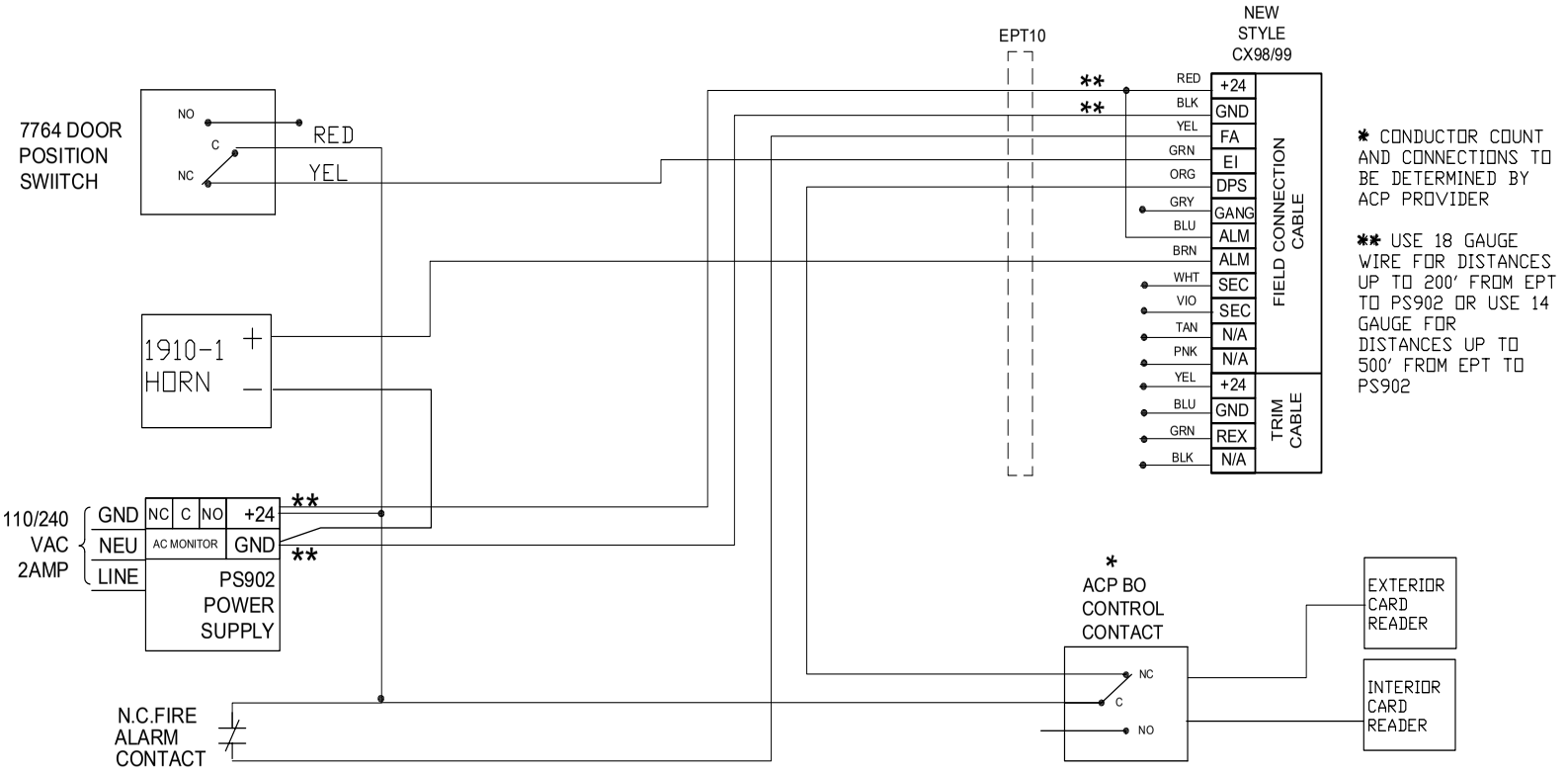
DRAWING TYPE: RISER DIAGRAM

DWG NO: 112289

DRAWN/CHECKED BY: B DOVE

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




THIS DIAGRAM SHOWS WIRING FOR CX DEVICES THAT SHIPPED AFTER 08-24-15

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

1 NEW CX 98/99-L RIM DEVICE
1 EPT10
1 7764 DPS
1 1910-1 HORN
1 PS902
2 CARD READER BY ACP BO
1 FIRE ALARM CONTACT

TYPE
DELAYED EGRESS SINGLE DOOR

OPERATION:

CHEXIT TO PROVIDE DELAY EGRESS. WHEN CX IS IN ALARM AUDIBLE WILL SOUND IN CX DEVICE AND EXTERNAL 1910-1 HORN.

FIRE ALARM TO RELEASE DOOR FOR IMMEDIATE EGRESS.

CARD READERS TO RELEASE CX THROUGH ACP CONTROL CONTACT FOR AUTHORIZED PASSAGE . CARD READER OR KEYSWITCH IN CX DEVICE TO RESET CX FROM ALARM.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS914 ENCLOSURE.

DATE DRAWN: 07-11-18
REVISION DATE: 07-11-18

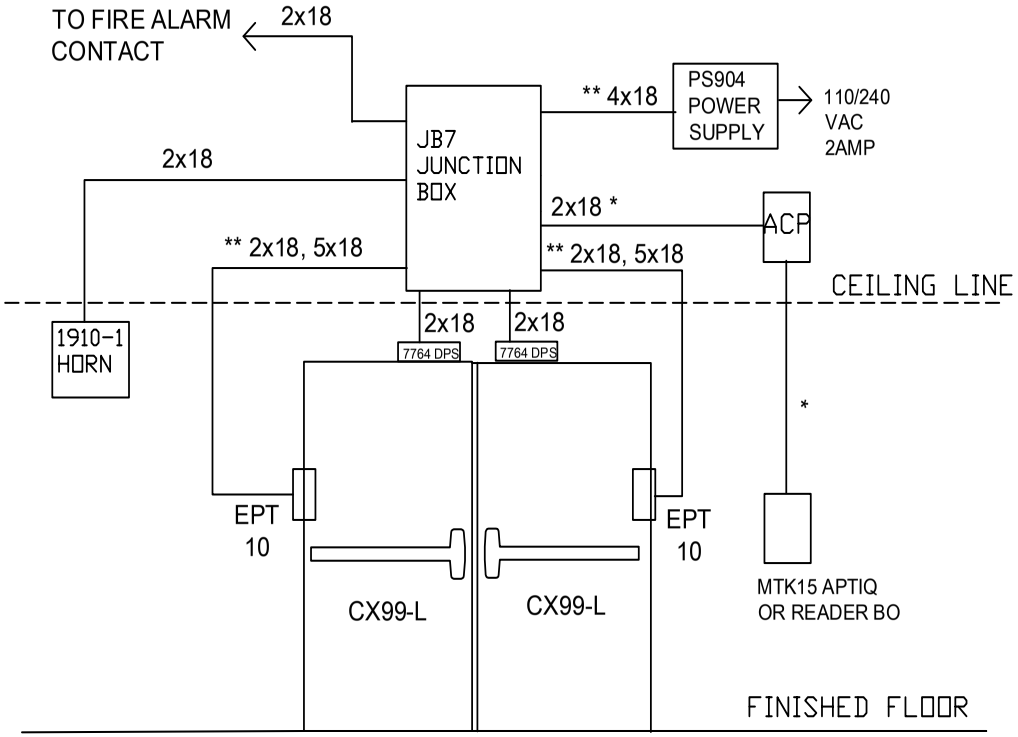
ALLEGION™

TITLE: CX SINGLE DOOR WITH PS902 AND INT/EXT CARD READERS

DRAWING TYPE: WIRING DIAGRAM
DWG NO: 112289
REV: A
DRAWN/CHECKED BY: B DOVE/

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

# THIS DIAGRAM SHOWS WIRING FOR CX DEVICES THAT SHIPPED AFTER 08-24-15




* CONDUCTOR COUNT AND CONNECTIONS TO BE DETERMINED BY ACP PROVIDER

** USE 18 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS902 OR USE 14 GAUGE FOR DISTANCES UP TO 500' FROM EPT TO PS902

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 2 NEW CX99-L RIM DEVICE
- 2 EPT10
- 2 7764 DPS
- 1 JB7 JUNCTION BOX
- 1 MULLION
- 1 1910-1 HORN
- 1 PS904
- 1 MTK15 READER BY ACP BO
- 1 FIRE ALARM CONTACT

TYPE: DELAYED EGRESS DOUBLE DOOR

OPERATION:

CHEXITS TO PROVIDE DELAY EGRESS. WHEN CX IS IN ALARM AUDIBLE WILL SOUND IN CX DEVICE AND EXTERNAL 1910-1 HORN.

FIRE ALARM TO RELEASE DOORS FOR IMMEDIATE EGRESS.

STAGGER REARM TIMES ON CX DEVICES BY SETTING SWITCHES ON CX PCB DIFFERENTLY.

MTK15 READER TO RELEASE BOTH CX THROUGH ACP CONTROL CONTACT FOR AUTHORIZED PASSAGE . MTK15 OR KEYSWITCH IN CX DEVICE TO RESET CX FROM ALARM.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN JB7 JUNCTION BOX.

DATE DRAWN: 07-11-18

REVISION DATE: 07-11-18

ALLEGION™

TITLE: CX DOUBLE DOOR CX WITH PS904

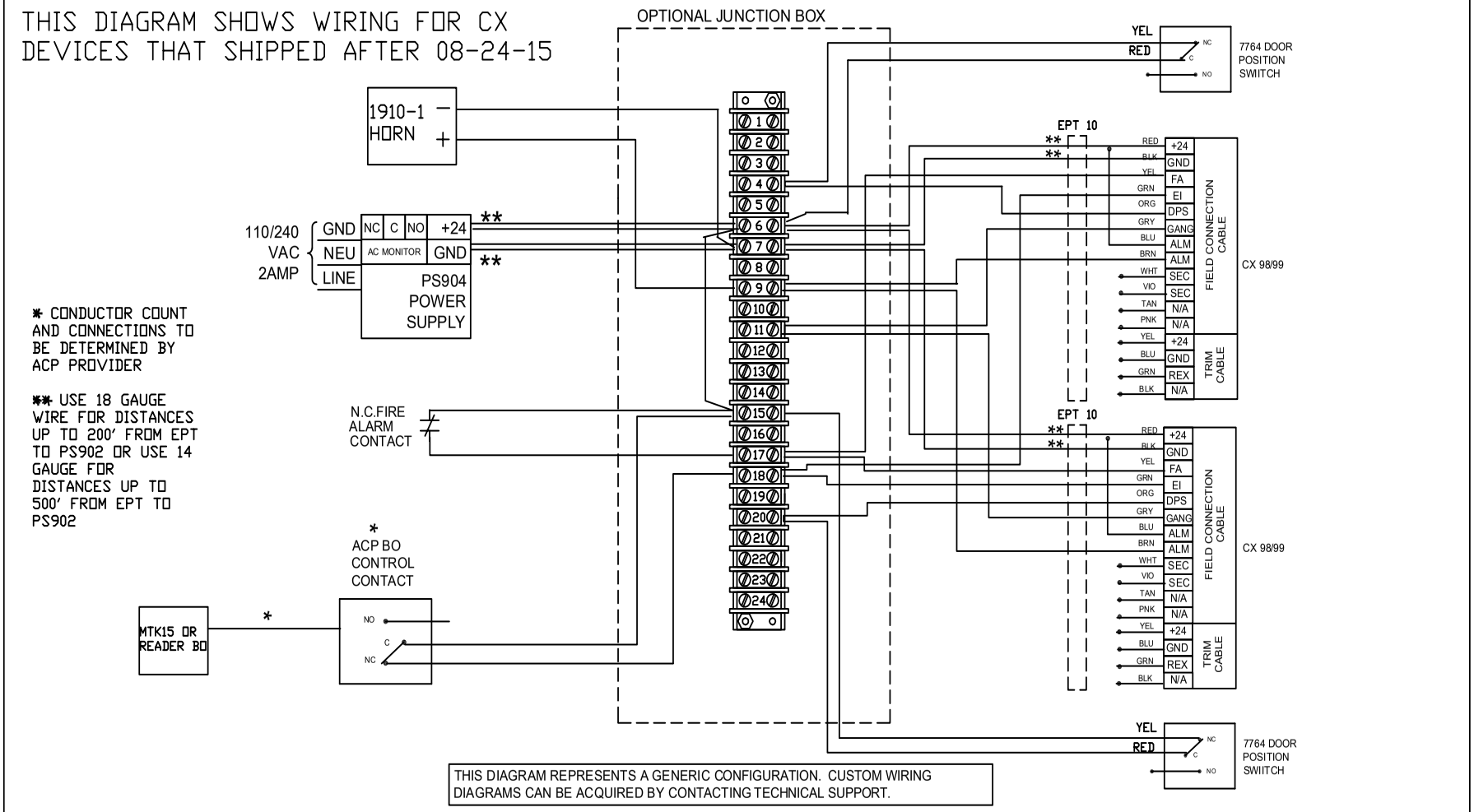
DRAWING TYPE: RISER DIAGRAM

DWG NO: 112290R

DRAWN/CHECKED BY: B DOVE

REV: A

# THIS DIAGRAM SHOWS WIRING FOR CX DEVICES THAT SHIPPED AFTER 08-24-15




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:

2 CX 98/99-L RIM DEVICE
2 EPT10
2 7764 DPS
1 JB7 JUNCTION BOX
1 MULLION
1 1910-1 HORN
1 PS904
1 MTK15 READER BY ACP BO
1 FIRE ALARM CONTACT

TYPE
DELAYED EGRESS DOUBLE DOOR

OPERATION:

CHEXITS TO PROVIDE DELAY EGRESS. WHEN CX IS IN ALARM AUDIBLE WILL SOUND IN CX DEVICE AND EXTERNAL 1910-1 HORN.

FIRE ALARM TO RELEASE DOORS FOR IMMEDIATE EGRESS.

STAGGER REARM TIMES ON CX DEVICES BY SETTING SWITCHES ON CX PCB DIFFERENTLY.

MTK15 READER TO RELEASE BOTH CX THROUGH ACP CONTROL CONTACT FOR AUTHORIZED PASSAGE . MTK15 OR KEYSWITCH IN CX DEVICE TO RESET CX FROM ALARM.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN JB7 JUNCTION BOX.

DATE DRAWN: 07-11-18

REVISION DATE: 07-11-18

ALLEGION™

TITLE:
CX DOUBLE DOOR CX WITH PS904

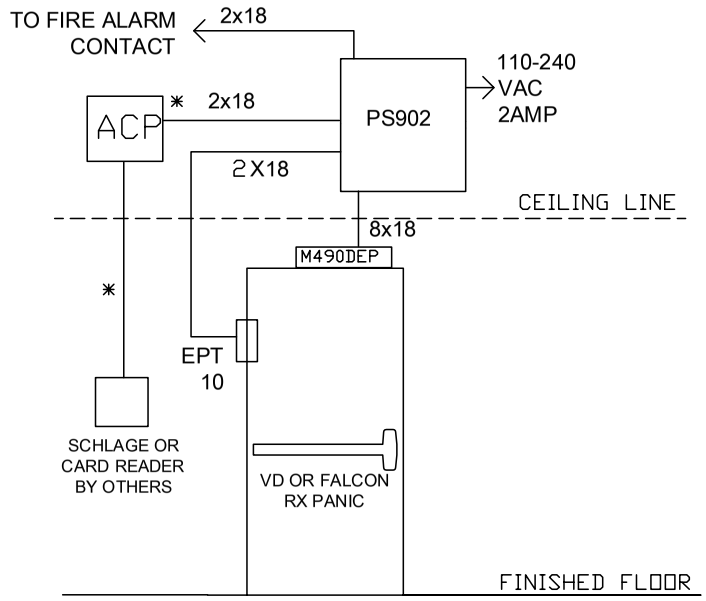
DRAWING TYPE:
WIRING DIAGRAM

DWG NO: 112290

DRAWN/CHECKED BY:
B DOVE/

REV
A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*ADDITIONAL WIRING IS REQUIRED. SEE MANUFACTURER INSTALLATION INSTRUCTION

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

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3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 1 VD OR FALCON RX PANIC DEVICE
- 1 EPT10 POWER TRANSFERS
- 1 M490DEP MAG LOCK
- 1 PS902 POWER SUPPLY
- 1 SCHLAGE OR CARD READER BY OTHERS WITH ACP
- FIRE ALARM CONTACT BY OTHERS

TYPE DELAYED EGRESS SINGLE

OPERATION:
M490DEP MAG LOCK TO PROVIDE DELAYED EGRESS. PUSHING ON PANIC INITIATES 15 SECOND RELEASE COUNTDOWN.

FIRE ALARM TO RELEASE DOORS IMMEDIATELY.

NTERIOR SCHLAGE OR CARD READER BY OTHERS TO RELEASE DOORS FOR UNAUTHORIZED EGRESS OR WILL RESET M490PDEP FROM ALARM.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

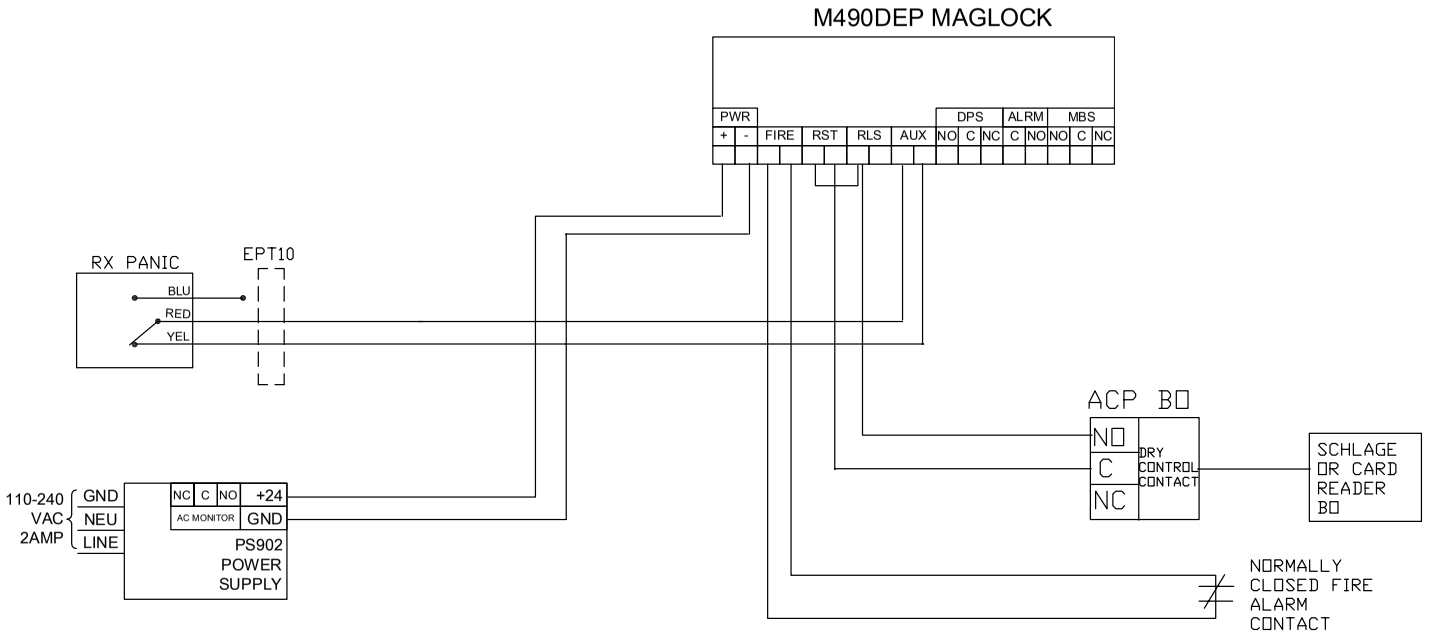
DATE DRAWN: 4-4-2013
REVISION DATE: 07-03-17

ALLEGION™

TITLE: M490DEP WITH RX PANIC, ACCESS CONTROL AND PS902

DRAWING TYPE: RISER DIAGRAM
DWG NO: 109498
DRAWN/CHECKED BY: B DOVE
REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 1 VD OR FALCON RX PANIC DEVICE
- 1 EPT10 POWER TRANSFERS
- 1 M490DEP MAG LOCK
- 1 PS902 POWER SUPPLY
- 1 SCHLAGE OR CARD READER BY OTHERS WITH ACP
- FIRE ALARM CONTACT BY OTHERS

TYPE: DELAYED EGRESS SINGLE

OPERATION:
M490DEP MAG LOCK TO PROVIDE DELAYED EGRESS. PUSHING ON PANIC INITIATES 15 SECOND RELEASE COUNTDOWN.

FIRE ALARM TO RELEASE DOORS IMMEDIATELY.

NTERIOR SCHLAGE OR CARD READER BY OTHERS TO RELEASE DOORS FOR UNAUTHORIZED EGRESS OR WILL RESET M490PDEP FROM ALARM.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

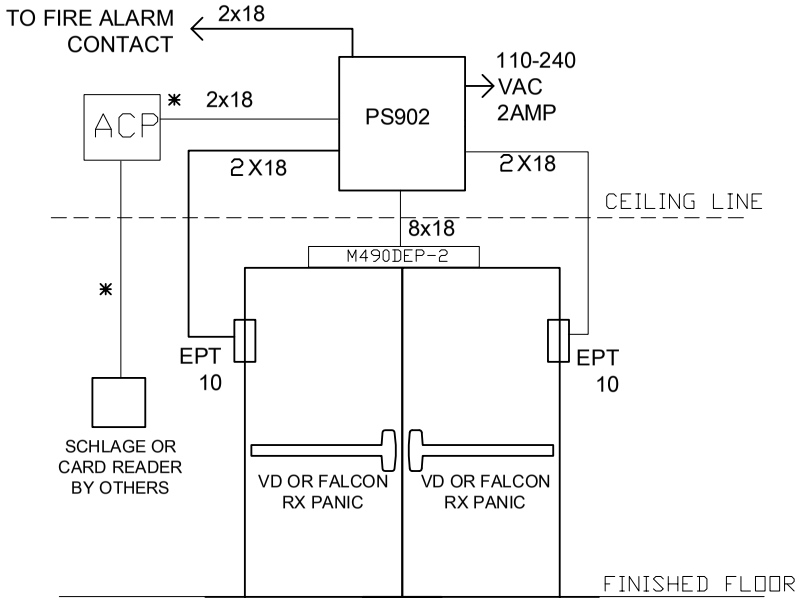
DATE DRAWN: 4-4-2013
REVISION DATE: 07-03-17

ALLEGION™

TITLE:
M490DEP WITH RX PANIC, ACCESS CONTROL AND PS902

DRAWING TYPE: WIRING DIAGRAM
DWG NO: 109498
REV: C
DRAWN/CHECKED BY: B DOVE/

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
*ADDITIONAL WIRING IS REQUIRED. SEE MANUFACTURER INSTALLATION INSTRUCTION

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 2 VD OR FALCON RX PANIC DEVICES
- 2 EPT10 POWER TRANSFERS
- 1 M490DEP-2 MAG LOCK
- 1 PS902 POWER SUPPLY
- 1 SCHLAGE OR CARD READER BY OTHERS WITH ACP
- FIRE ALARM CONTACT BY OTHERS

TYPE DELAYED EGRESS PAIR

OPERATION:
M490DEP-2 MAG LOCK TO PROVIDE DELAYED EGRESS. PUSHING ON EITHER PANIC INITIATES 15 SECOND RELEASE COUNTDOWN.

FIRE ALARM TO RELEASE DOORS IMMEDIATELY.

NTERIOR SCHLAGE OR CARD READER BY OTHERS TO RELEASE DOORS FOR AUTHORIZED EGRESS OR WILL RESET M490DEP-2 FROM ALARM.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

DATE DRAWN: 4-3-2013
REVISION DATE: 07-03-17

ALLEGION™

TITLE: M490DEP-2 WITH PAIR RX PANICS, ACCESS CONTROL AND PS902

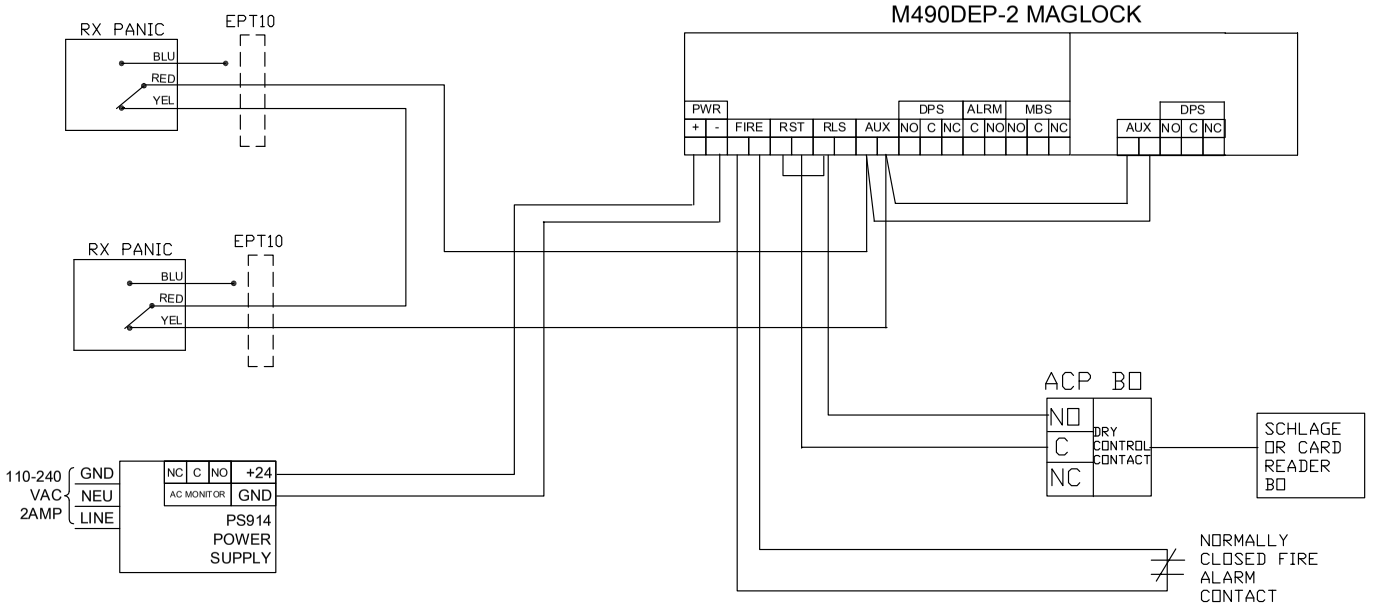
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109500

DRAWN/CHECKED BY: B DOVE

REV: C

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 2 VD OR FALCON RX PANIC DEVICES
- 2 EPT10 POWER TRANSFERS
- 1 M490DEP-2 MAG LOCK
- 1 PS902 POWER SUPPLY
- 1 SCHLAGE OR CARD READER BY OTHERS WITH ACP
- FIRE ALARM CONTACT BY OTHERS

TYPE: DELAYED EGRESS PAIR

OPERATION:
M490DEP-2 MAG LOCK TO PROVIDE DELAYED EGRESS. PUSHING ON EITHER PANIC INITIATES 15 SECOND RELEASE COUNTDOWN.

FIRE ALARM TO RELEASE DOORS IMMEDIATELY.

NTERIOR SCHLAGE OR CARD READER BY OTHERS TO RELEASE DOORS FOR AUTHORIZED EGRESS OR WILL RESET M490DE-2 FROM ALARM.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN PS902 ENCLOSURE.

DATE DRAWN: 4-3-2013

REVISION DATE: 07-03-17

ALLEGION™

TITLE: M490DE-2 WITH PAIR RX PANICS, ACCESS CONTROL AND PS902

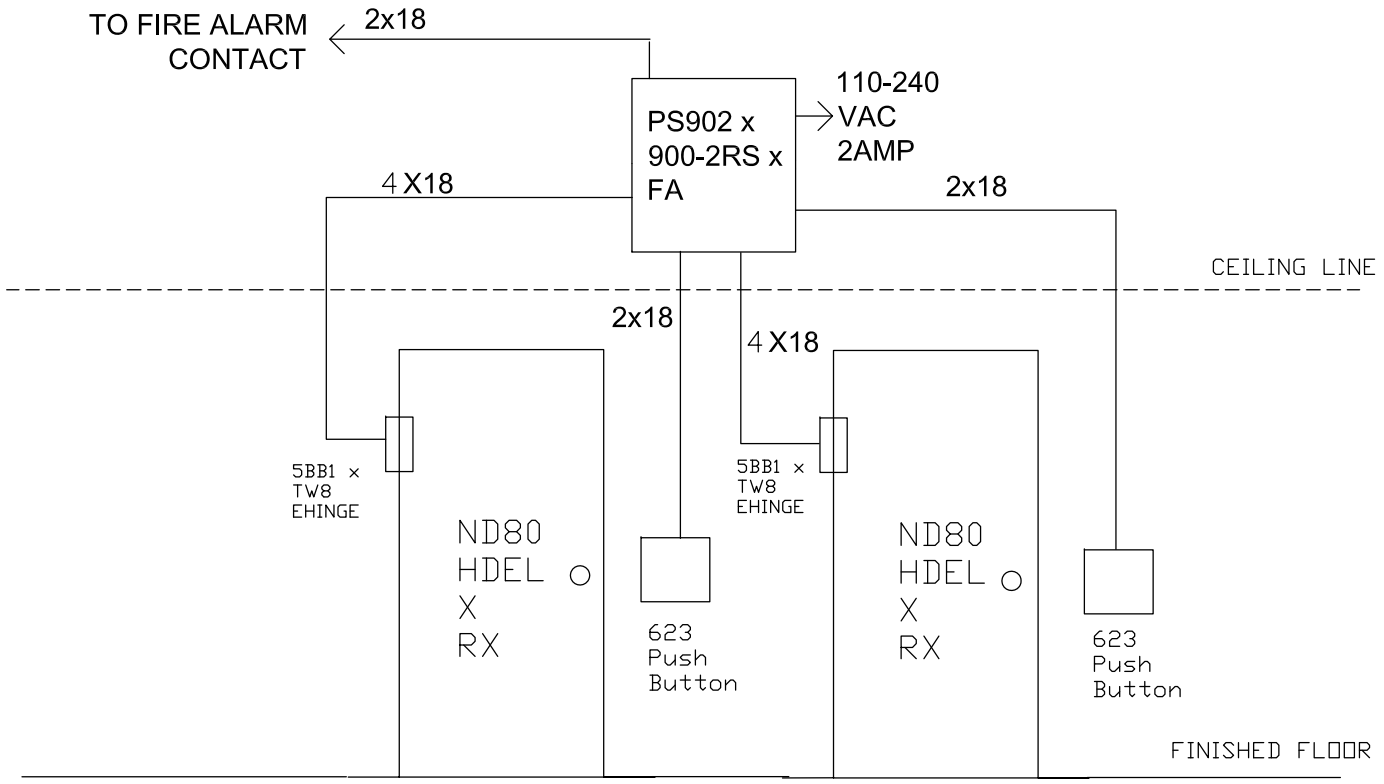
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109500

REV: C

DRAWN/CHECKED BY: B DOVE/

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

1 PS902-2RS-FA

2 623 PUSHBUTTONS

2 5BB1 TW8 EHINGES

2 ND80 HDEL X RX LOCKSETS

1 FIRE ALARM CONTACT BY BUILDING SYSTEM

TYPE

SHARED RESTROOM

OPERATION:
COMMON RESTROOM SHARED BY 2 ROOMS.

DOORS NORMALLY UNLOCKED.

UPON ENTERING RESTROOM ONE OF THE MOMENTARY 623 PUSHBUTTONS WILL BE PRESSED TO LOCK BOTH DOORS.

LEAVING THE RESTROOM - WHEN EITHER LEVER IS USED TO EXIT. RX SWITCH IN LEVER WILL ELECTRICALLY UNLOCK BOTH DOORS.

FIRE ALARM ACTIVATION TO CAUSE ND EL LOCKS TO UNLOCK.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS902 POWER SUPPLY.

DATE DRAWN: 4-25-13

REVISION DATE: 4-25-13

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ALLEGION™

TITLE: ND80 HDEL X RX LOCKSETS ON SHARED RESTROOM

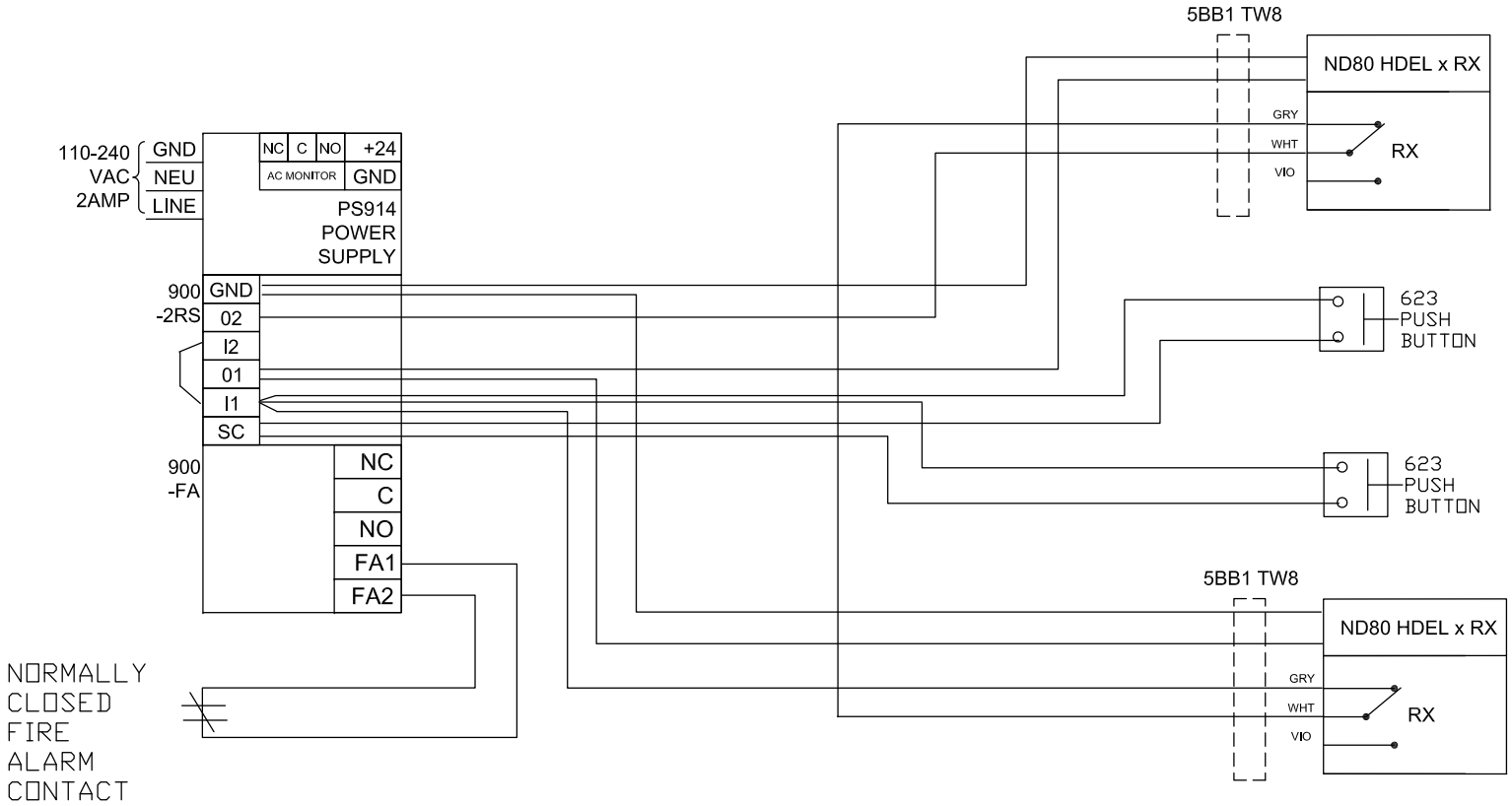
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109529

DRAWN/CHECKED BY: B DOVE

REV A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

1 PS902-2RS-FA

2 623 PUSHBUTTONS

2 5BB1 TW8 HINGES

2 ND80 HDEL X RX LOCKSETS

1 FIRE ALARM CONTACT BY BUILDING SYSTEM

TYPE

SHARED RESTROOM

OPERATION:
COMMON RESTROOM SHARED BY 2 ROOMS.

DOORS NORMALLY UNLOCKED.

UPON ENTERING RESTROOM ONE OF THE MOMENTARY 623 PUSHBUTTONS WILL BE PRESSED TO LOCK BOTH DOORS.

LEAVING THE RESTROOM - WHEN EITHER LEVER IS USED TO EXIT. RX SWITCH IN LEVER WILL ELECTRICALLY UNLOCK BOTH DOORS.

FIRE ALARM ACTIVATION WILL CAUSE BOTH ND EL LOCKS TO UNLOCK.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS902 POWER SUPPLY.

DATE DRAWN: 4-25-13

REVISION DATE: 4-25-13

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ALLEGION™

TITLE: ND80 HDEL X RX LOCKSETS ON SHARED RESTROOM

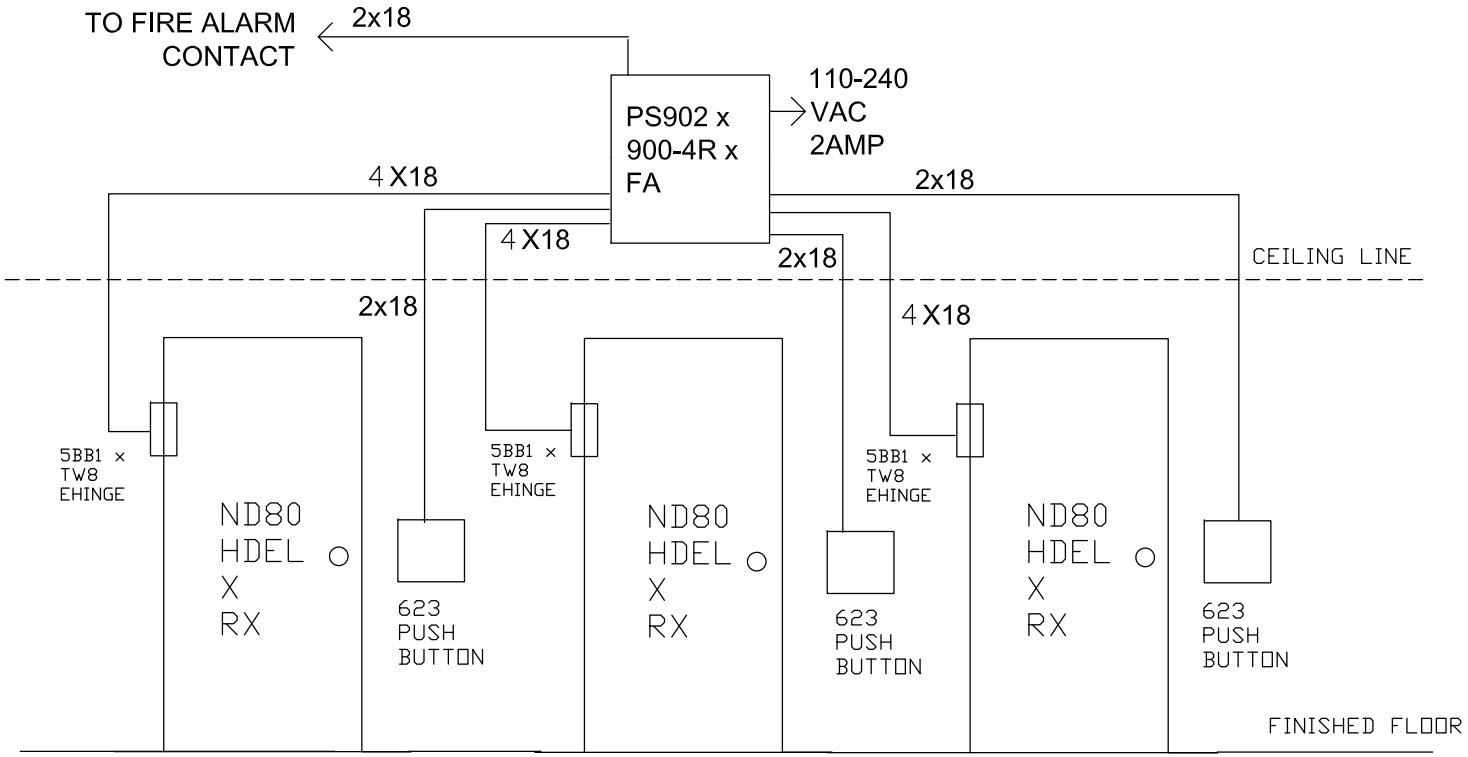
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 109529

DRAWN/CHECKED BY: B DOVE

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:

1 PS902-4R-FA

3 623 PUSHBUTTONS

3 5BB1 TW8 EHINGES

3 ND80 HDEL X RX LOCKSETS

1 FIRE ALARM CONTACT BY BUILDING SYSTEM

TYPE: SHARED RESTROOM - 3 DOORS

OPERATION:
COMMON RESTROOM SHARED BY 3 ROOMS.

DOORS NORMALLY UNLOCKED.

UPON ENTERING RESTROOM ONE OF THE MOMENTARY 623 PUSHBUTTONS WILL BE PRESSED TO LOCK ALL DOORS.

LEAVING THE RESTROOM - WHEN ANY LEVER IS USED TO EXIT. RX SWITCH IN LEVER WILL ELECTRICALLY UNLOCK ALL DOORS.

FIRE ALARM ACTIVATION TO CAUSE ALL ND EL LOCKS TO UNLOCK.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS902 POWER SUPPLY.

DATE DRAWN: 4-30-13

REVISION DATE: 4-30-13

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ALLEGION™

TITLE: 3 ND80 HDEL X RX LOCKSETS ON SHARED RESTROOM

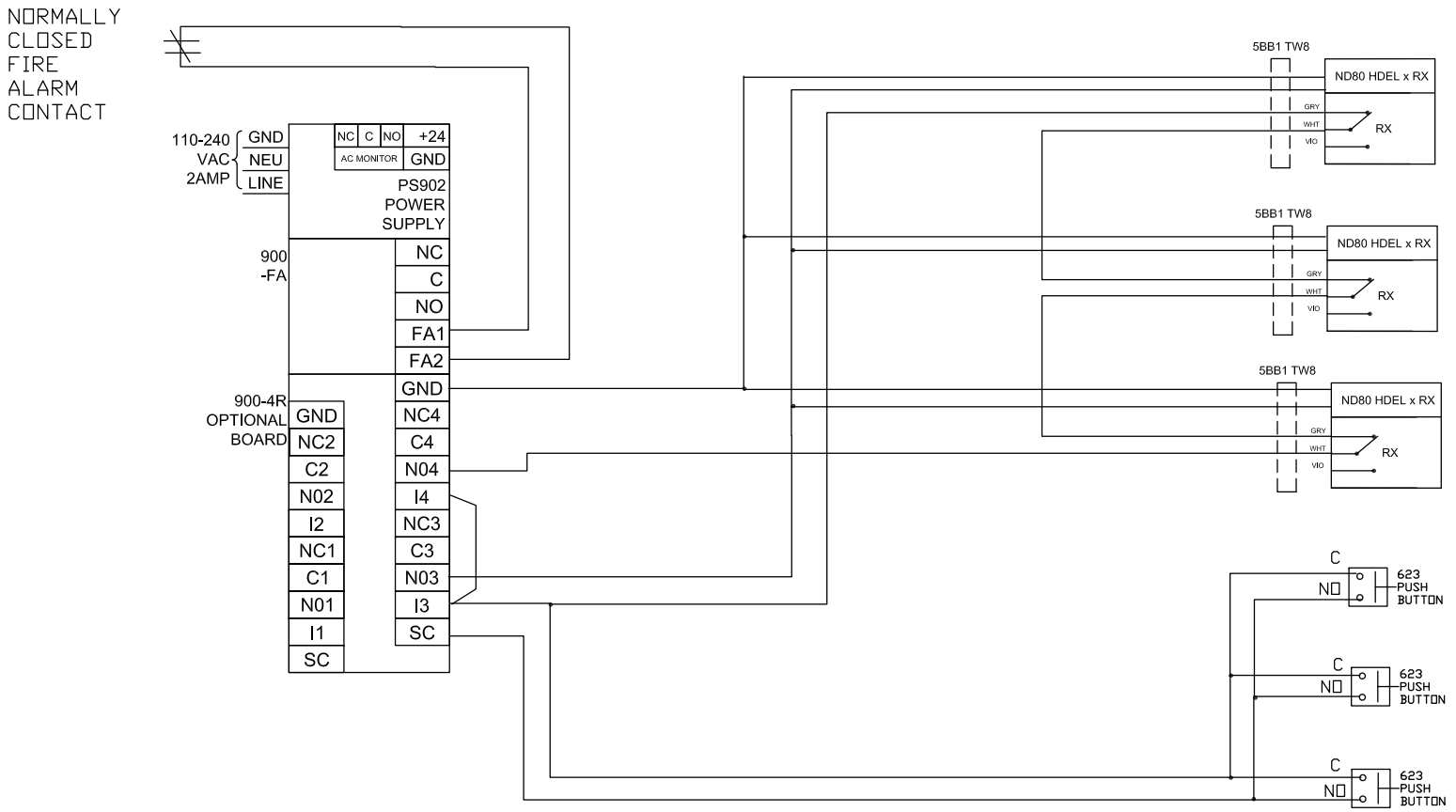
DRAWING TYPE: RISER DIAGRAM

DWG NO: 109537

DRAWN/CHECKED BY: B DOVE

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPESCIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 PS902-4R-FA
3 623 PUSHBUTTONS
3 5BB1 TW8 EHINGES
3 ND80 HDEL X RX LOCKSETS
1 FIRE ALARM CONTACT BY BUILDING SYSTEM

TYPE SHARED RESTROOM - 3 DOORS

OPERATION:
COMMON RESTROOM SHARED BY 3 ROOMS.

DOORS NORMALLY UNLOCKED.

UPON ENTERING RESTROOM ONE OF THE MOMENTARY 623 PUSHBUTTONS WILL BE PRESSED TO LOCK ALL DOORS.

LEAVING THE RESTROOM - WHEN ANY LEVER IS USED TO EXIT. RX SWITCH IN LEVER WILL ELECTRICALLY UNLOCK ALL DOORS.

FIRE ALARM ACTIVATION TO CAUSE ALL ND EL LOCKS TO UNLOCK.

IN THIS EXAMPLE ALL WIRING CONNECTIONS ARE MADE IN THE PS902 POWER SUPPLY.

DATE DRAWN: 4-30-13
REVISION DATE: 4-30-13

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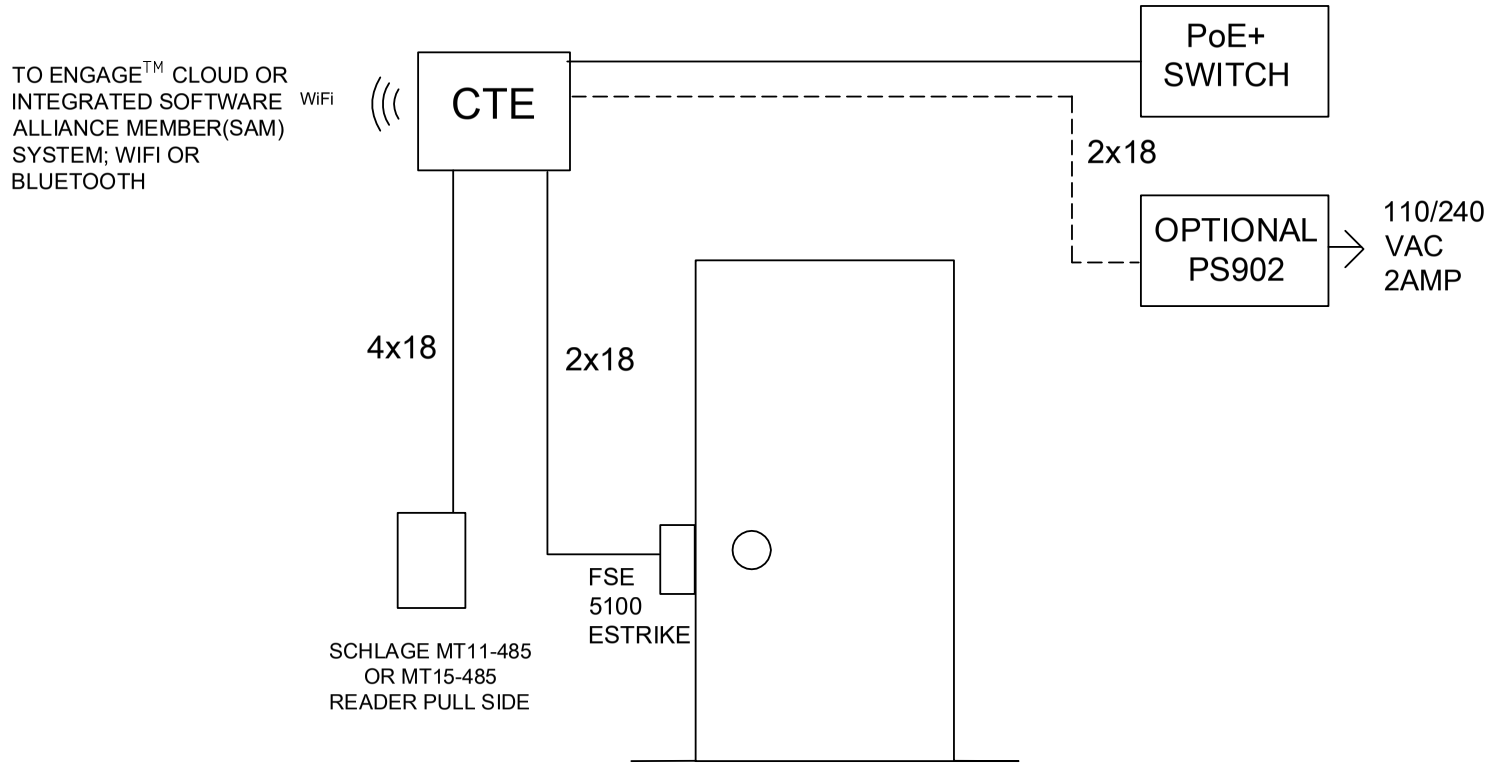
ALLEGION™

TITLE: 3 ND80 HDEL X RX LOCKSETS ON SHARED RESTROOM

DRAWING TYPE: WIRING DIAGRAM
DWG NO: 109537
DRAWN/CHECKED BY: B DOVE
REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 CTE
1 MT11-485 OR MT15-485 SCHLAGE READER
1 VD 5100 ESTRIKE
1 PoE+ SWITCH
1 OPTIONAL PS902

TYPE PoE+ CTE ACCESS CONTROL WITH 5100 ESTRIKE - BASIC

OPERATION:
SCHLAGE MT11-485 OR MT15-485 READER TO RELEASE FSE 5100 ESTRIKE TO ALLOW ENTRY.

CTE CAN BE USED WITH ENGAGE™ CLOUD OR SOFTWARE ALLIANCE MEMBER (SAM) SYSTEM

VERIFY PoE+ POWER SOURCE APPROPRIATE TO HANDLE LOAD AT OPENING. ADDITIONAL WIRING WILL BE REQUIRED THAT IS NOT SHOWN HERE.

FREE EGRESS ALWAYS PERMITTED.

THIS IS NOT A FIRE RATED APPLICATION

DATE DRAWN: 08-21-17

REVISION DATE: 08-21-17

ALLEGION™

TITLE: PoE+ CTE WITH 5100 ESTRIKE BASIC CONFIGURATION

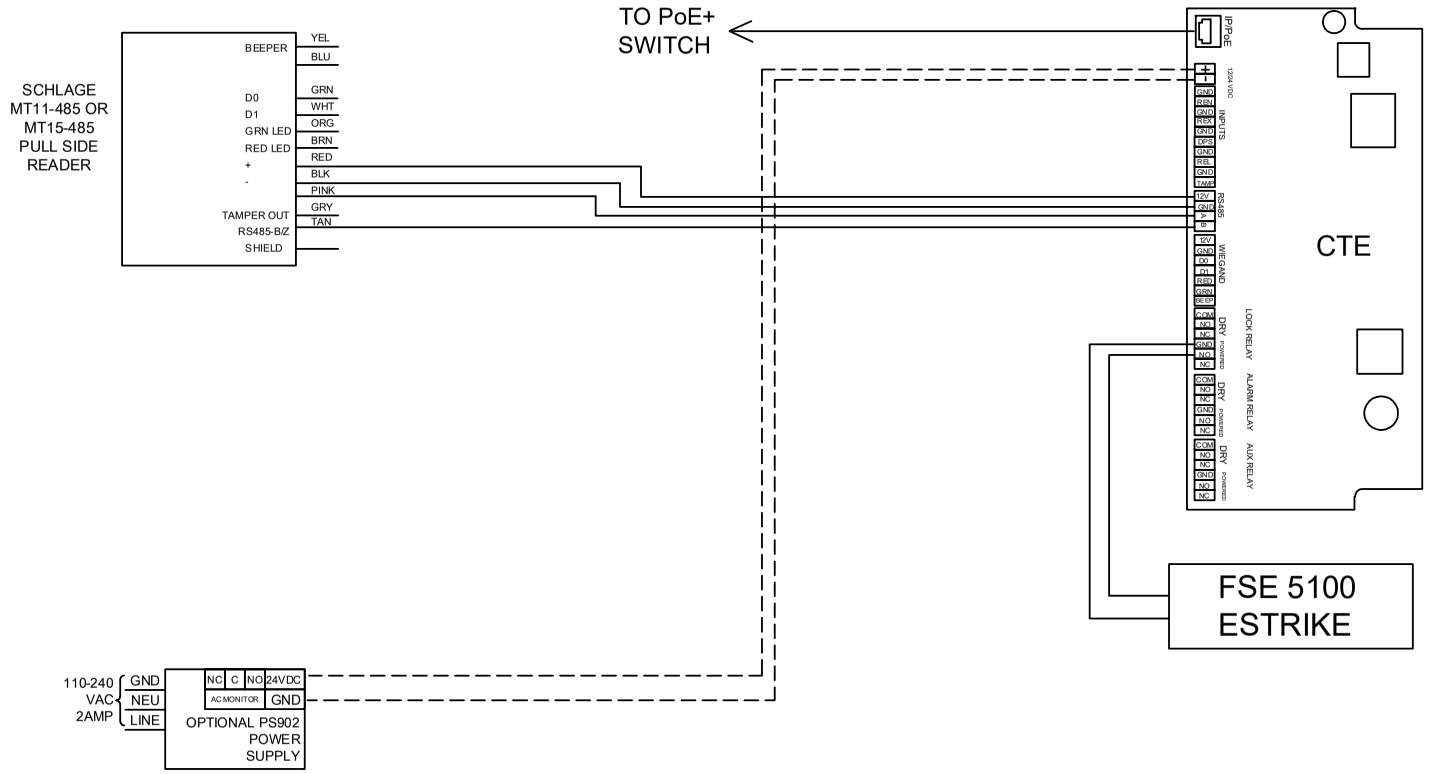
DRAWING TYPE:

DWG NO: 112089

REV: A

DRAWN/CHECKED BY: BRENDA DOVE

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
1 CTE
1 MT11-485 OR MT15-485 SCHLAGE READER
1 VD 5100 ESTRIKE
1 PoE+ SWITCH
1 OPTIONAL PS902

TYPE PoE+ CTE ACCESS CONTROL WITH 5100 ESTRIKE - BASIC

OPERATION:
SCHLAGE MT11-485 OR MT15-485 READER TO RELEASE FSE 5100 ESTRIKE TO ALLOW ENTRY.

CTE CAN BE USED WITH ENGAGE™ CLOUD OR SOFTWARE ALLIANCE MEMBER ( SAM) SYSTEM

VERIFY PoE+ POWER SOURCE APPROPRIATE TO HANDLE LOAD AT OPENING. ADDITIONAL WIRING WILL BE REQUIRED THAT IS NOT SHOWN HERE.

FREE EGRESS ALWAYS PERMITTED.

THIS IS NOT A FIRE RATED APPLICATION

DATE DRAWN: 08-21-17

REVISION DATE: 08-21-17

ALLEGION™

TITLE: PoE+ CTE WITH 5100 ESTRIKE BASIC CONFIGURATION

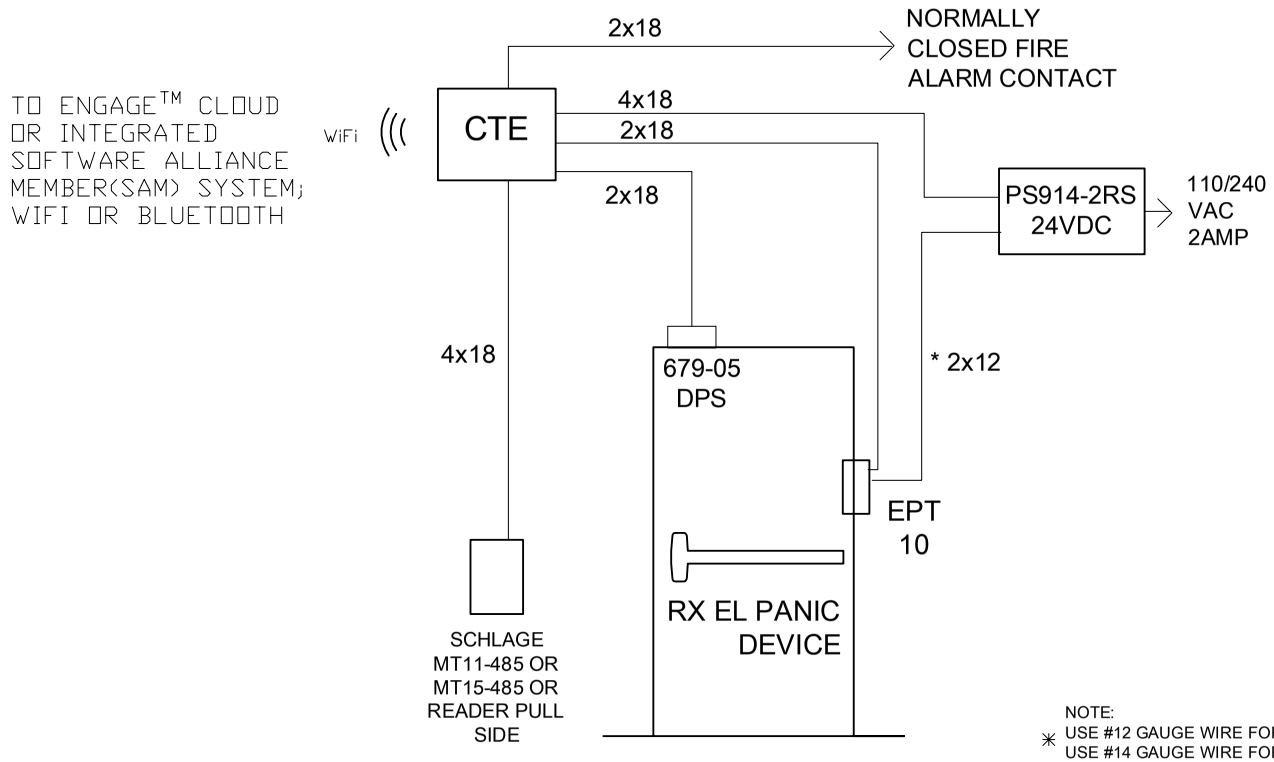
DRAWING TYPE:

DWG NO: 112089W

REV: A

DRAWN/CHECKED BY: BRENDA DOVE

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTE:
* USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914.
USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 1 CTE
- 1 MT11-485 OR MT15-485 SCHLAGE READER
- 1 VD OR FALCON RX EL PANIC
- 1 EPT10
- 1 PS914-2RS
- 1 679-05 DPS

TYPE: CTE ACCESS CONTROL WITH EL PANIC- FIRE RATED

OPERATION:
SCHLAGE MT11-485 OR MT15-485 READER TO SIGNAL EL TO RETRACT THE ELECTRIC LATCH ON PANIC BAR THROUGH THE CTE TO ALLOW ENTRY.

CTE CAN BE USED WITH ENGAGE™ CLOUD OR SOFTWARE ALLIANCE MEMBER ( SAM) INTEGRATED SYSTEM.

FREE EGRESS ALWAYS PERMITTED.

FIRE ALARM TO EXTEND EL LATCH.

DATE DRAWN: 08-21-17

REVISION DATE: 08-21-17

ALLEGION™

TITLE: CTE WITH EL AND PS914-2RS - FIRE RATED

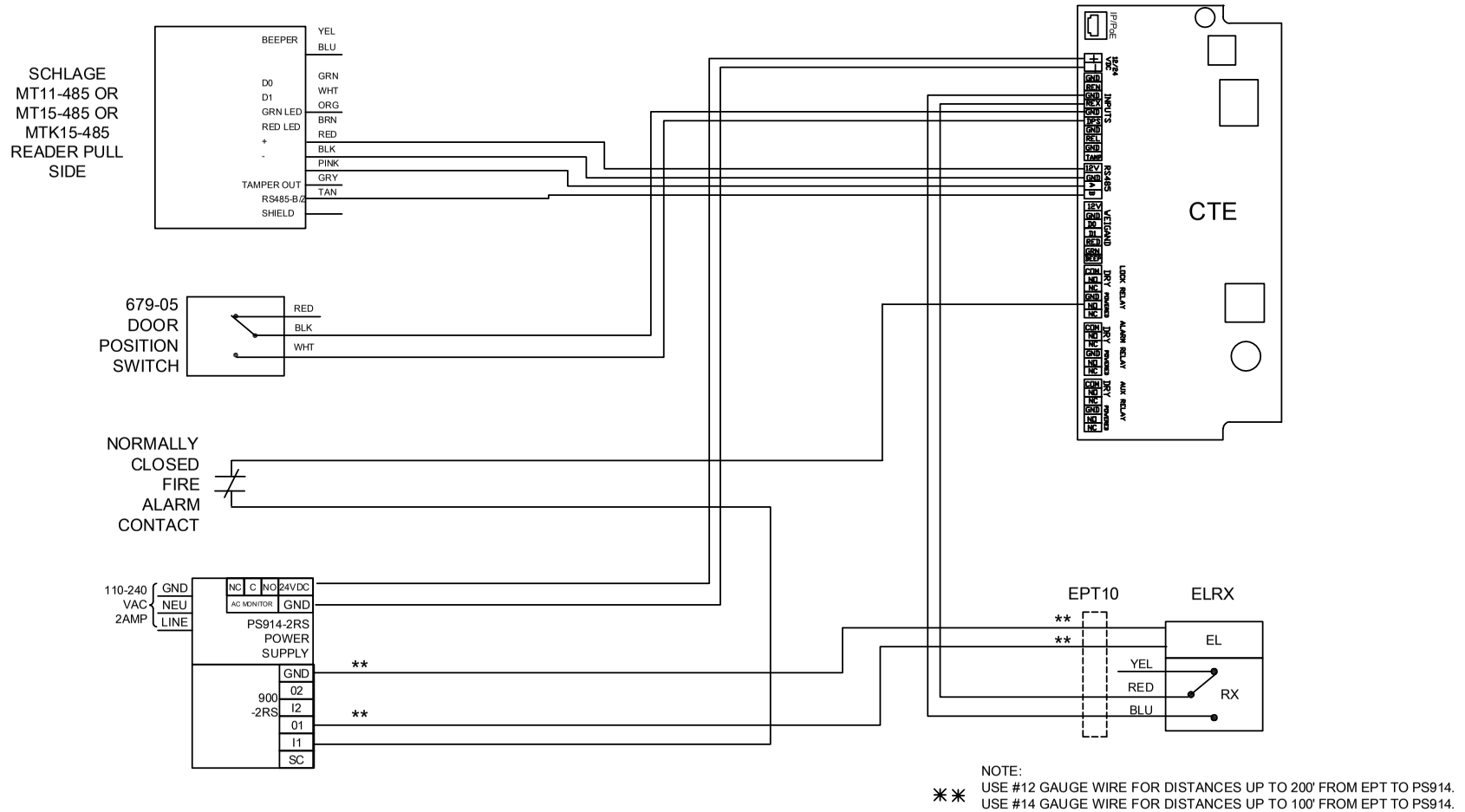
DRAWING TYPE: RISER DIAGRAM

DWG NO: 112090

DRAWN/CHECKED BY: BRENDA DOVE

REV: A

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




** NOTE:
USE #12 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS914.
USE #14 GAUGE WIRE FOR DISTANCES UP TO 100' FROM EPT TO PS914.

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
- 1 CTE
- 1 MT11-485 OR MT15-485 OR MTK15-485 SCHLAGE READER
- 1 VD OR FALCON RX EL PANIC
- 1 EPT10
- 1 PS914-2RS
- 1 679-05 DPS

TYPE: CTE ACCESS CONTROL WITH EL PANIC-FIRE RATED

OPERATION:
SCHLAGE MT11-485 OR MT15-485 OR MTK15-485 READER TO SIGNAL EL TO RETRACT THE ELECTRIC LATCH ON PANIC BAR THROUGH THE CTE TO ALLOW ENTRY.

CTE CAN BE USED WITH ENGAGE ™ CLOUD OR SOFTWARE ALLIANCE MEMBER ( SAM) INTEGRATED SYSTEM.

FREE EGRESS ALWAYS PERMITTED.

FIRE ALARM TO EXTEND EL LATCH.

DATE DRAWN: 08-21-17

REVISION DATE: 08-21-17

ALLEGION™

TITLE: CTE WITH EL AND PS914-2RS-FIRE RATED

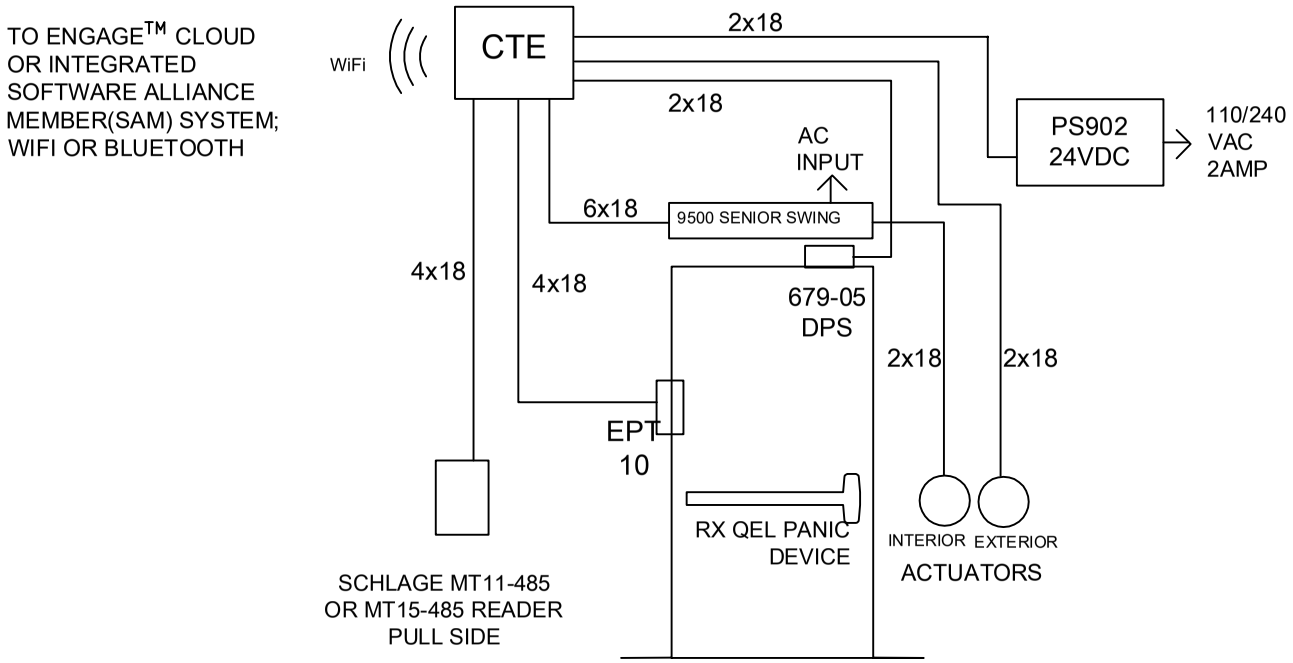
DRAWING TYPE: WIRING DIAGRAM

DWG NO: 112090

REV: A

DRAWN/CHECKED BY: BRENDA DOVE

THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.




NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) * CONDUCTOR COUNT TO BE DETERMINED BY ACCESS CONTROL PANEL PROVIDER.

HARDWARE USED:
- 1 CTE
- 1 MT11-485 OR MT15-485 SCHLAGE READER
- 1 VD QEL PANIC
- 1 EPT 10
- 1 PS902
- 1 679-05 DPS
- 1 9500 SENIOR SWING
- 2 ACTUATORS

TYPE: CTE ACCESS CONTROL WITH QEL PANIC WITH SENIOR SWING AO

OPERATION:
SCHLAGE MT11-485 OR MT15-485 READER TO SIGNAL EL TO RETRACT THE ELECTRIC LATCH ON VON DUPRIN RX QEL PANIC BAR AND ENABLE EXTERIOR ACTUATOR TO ALLOW ENTRY. FREE EGRESS ALWAYS PERMITTED. INTERIOR ACTUATOR ALWAYS ACTIVE.

ADDITIONAL WIRING WILL BE REQUIRED THAT IS NOT SHOWN HERE.

CTE TO COMMUNICATE TO ENGAGE™ CLOUD OR SOFTWARE ALLIANCE MEMBER ( SAM) SYSTEM

THIS IS NOT A FIRE RATED APPLICATION

DATE DRAWN: 08-24-17

REVISION DATE: 08-24-17

ALLEGION™

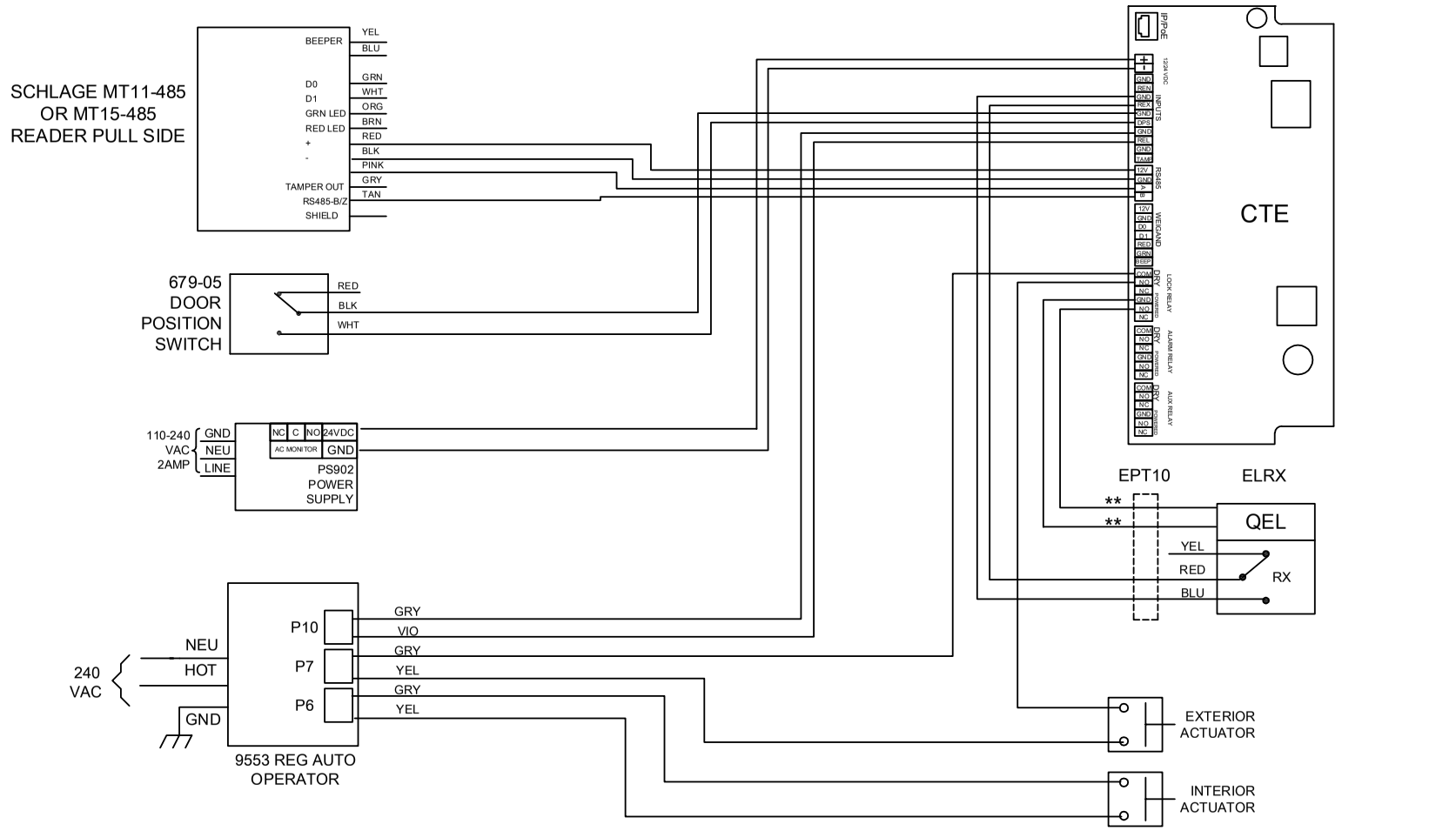
TITLE: CTE WITH QEL AND PS902 WITH 9500 SENIOR SWING AO

DRAWING TYPE: RISER DIAGRAM

DWG NO: 112091

DRAWN/CHECKED BY: BRENDA DOVE

REV: A




THIS DIAGRAM REPRESENTS A GENERIC CONFIGURATION. CUSTOM WIRING DIAGRAMS CAN BE ACQUIRED BY CONTACTING TECHNICAL SUPPORT.

** NOTE:
USE #18 GAUGE WIRE FOR DISTANCES UP TO 200' FROM EPT TO PS902

NOTES:
1) ALL LOW VOLTAGE WIRING TO BE STANDARD, MULTI-CONDUCTOR COLOR CODED WITHOUT SPLICES.

2) WIRING TO CONFORM TO APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

3) REFER TO SPECIFIC PRODUCT INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING REQUIREMENTS.

4) THIS DRAWING IS FOR GRAPHICAL REPRESENTATION OF PRODUCTS DETAILED IN THE HARDWARE SET ONLY.

5) ADDITIONAL WIRING WILL BE REQUIRED FROM ACP THAT IS NOT SHOWN HERE. CONSULT PROVIDER FOR DETAILS.

HARDWARE USED:
- 1 CTE
- 1 MT11-485 OR MT15-485 SCHLAGE READER
- 1 VD QEL PANIC
- 1 EPT 10
- 1 PS902
- 1 679-05 DPS
- 1 9500 SENIOR SWING
- 2 ACTUATORS

TYPE: CTE ACCESS CONTROL WITH QEL PANIC WITH SENIOR SWING AO

OPERATION:
SCHLAGE MT11-485 OR MT15-485 READER TO SIGNAL EL TO RETRACT THE ELECTRIC LATCH ON VON DUPRIN RX QEL PANIC BAR AND ENABLE EXTERIOR ACTUATOR TO ALLOW ENTRY. FREE EGRESS ALWAYS PERMITTED. INTERIOR ACTUATOR ALWAYS ACTIVE.

ADDITIONAL WIRING WILL BE REQUIRED THAT IS NOT SHOWN HERE.

CTE TO COMMUNICATE TO ENGAGE™ CLOUD OR SOFTWARE ALLIANCE MEMBER ( SAM) SYSTEM

THIS IS NOT A FIRE RATED APPLICATION

DATE DRAWN: 08-24-17

REVISION DATE: 08-24-17

ALLEGION™

TITLE: CTE WITH QEL AND PS902 WITH 9500 SENIOR SWING AO

DRAWING TYPE: WIRING DIAGRAM

DWG NO: 112091

REV: A

DRAWN/CHECKED BY: BRENDA DOVE

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Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in seamless access, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion secures people and assets with a range of solutions for homes, businesses, schools and institutions. Allegion had $2.7 billion in revenue in 2018, and sells products in almost 130 countries.

For more, visit **www.allegion.com.**

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