Product Catalog

SARGENT
ASSA ABLOY

Electroguard®

Experience a safer
and more open world

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Electroguard®

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MicroShield®

As part of their promise to provide innovative solutions to their customers, certain ASSA ABLOY Group brands offer the MicroShield® technology, a silver-based antimicrobial coating designed to inhibit the growth of bacteria.

Microshield® is a registered trademark of ASSA ABLOY Access and Egress Hardware Group, Inc.

agion The Agion antimicrobial is not intended as a substitute for good hygiene. Coated products must still be cleaned to ensure the surfaces will be free of destructive microbes. ASSA ABLOY makes no representations or warranties, express or implied, as to the efficacy of the Agion antimicrobial. A copy of the Agion warranty is available upon request. Agion is a registered trademark of Agion Technologies, Inc., Wakefield, MA, USA

MicroShield® Coating

- Revolutionary finish coating available on all SARGENT product lines, utilizes a silver-based antimicrobial compound from Agion Technologies
- As an integral part of the finish coating, MicroShield lasts for the life of the hardware
- MicroShield coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. It is effective against a broad spectrum of bacteria.
- Non-toxic and completely safe. The Agion antimicrobial compound is EPA and NSF approved and FDA listed for use in medical and food preparation equipment.
- Applications: Anywhere there is need for a clean environment (hospitals, laboratories, schools, medical centers, daycare, food processing etc.)

On The Cover

• 59-8810 Rim Exit Device

Introduction

Commonly used in schools, nursing homes, shopping centers and libraries, delayed egress exit devices provide a means of monitoring egress to prevent unauthorized exit. When the exit device push pad is depressed, the 59-80 Series delayed egress exit device sounds an alarm from the rail to alert personnel that someone is attempting egress. The exit device stays secure for fifteen seconds, allowing time for personnel to respond.

Momentary release for egress (adjustable for 5, 10, 20 or 40 seconds) is provided by a cylinder on the rail or from a remote location. When the fire alarm system is activated (if connected), the exit device disarms and allows immediate egress.

Note: As of February 2014, the 59- option has a new design. The updated 59- functionalities utilize new sensor technologies and is only available for order as a complete device. Component upgrades are not offered with prior generation products because wire harnesses are not backwards compatible. When replacing an existing device with an updated one, there is no change to door templating or mounting.

UL LISTED c UL LISTED

Features

Compliance

- Conforms to NFPA 101 Special Locking Arrangements
- Available in UL Listed Panic and Fire Rated (12- option) devices
- UL294 Listed for Special Locking Arrangements
- When ordered with BC- option, complies with BOCA code relating to delayed egress. Requires door status switch (3287) ordered separately

Operation

- Depressing the push rail for one second or longer initiates an alarm
- LED visual notification system for easy identification of armed device; LED lights are field-selectable as red or green
- Momentary or maintained egress with key OR from a remote location
- Alarm disabled by key in the rail OR by remote reset
- Alarm sounds for fifteen seconds during unauthorized egress; after fifteen seconds lock releases. 30 second delay available with written permission of Authority having Jurisdiction
- Field adjustable nuisance delay (0 or 1 second)
- External inhibit features with authorized egress, card reader access and scheduled delayed egress from access control panel

Specifications

- Standard size 41 mortise cylinder in rail
- Field adjustable momentary time delay preset for five seconds at factory
- 80dB horn enclosed in rail assembly
- Uses standard electric hinge - no special power transfer required
- Guarded & monitored latch and rail standard
- Power Requirements: 24VDC regulated/filtered power supply
- Key override capabilities
- Current draw: .2 amp. nominal, .5 amp (max) with optional features
- Minimum Door Widths: - Wide Stile Door 32" - Narrow Stile Door 32"
- Ability to gang up to 12 doors
- Shipped with decal "Emergency Exit Only. Push until alarm sounds. Door can be opened in 15 seconds"
- See McKINNEY's Transfer Device Solutions Catalog for QC Hinge and cable requirements
- Available for all 80 Series devices, except LP, LR, LS, SP8600, & FM, ND8700 & and MS, HC800 Devices
- Order as a 59- option (e.g., 59-8813F x ETJ x 32D x 36" Door)
- See page 58 for compatible options

Installation and Maintenance

- Diagnostic LEDs on PC board for easy troubleshooting

Feature Descriptions

- **Fire Alarm (N.C.) Contact** — When connected to a normally closed contact, the push rail shall unlock upon a signal from the building's fire alarm system When the fire alarm is activated, the push rail releases, Status LED is activated and horn is disabled.
- **Remote Alarm** — A SPDT relay contact, rated 1 amp @ 24VDC will close during an alarm condition. These contacts can be used to operate an LED, horn, or other monitoring device.
- **Key Cylinder Input** — The 41 size cylinder located in the rail assembly of the exit device is used to activate or deactivate the delayed egress system. Will accept most standard SARGENT key systems, SFIC, Removable core, construction keying and Masterkeying.
- **Door Position** — A door position switch (3287) or monitor hinge may be connected to the Electroguard® to signal the circuitry that the door is open, sounding the alarm in the rail. When this input is used, the Electroguard® cannot be armed when the door is open.
- **External Inhibit Input** — Allows the unit to be disarmed remotely by a key switch, key pad or card reader for momentary or extended egress or ingress.
- **Remote Reset** — Allows for a device in alarm to be reset remotely and provides an authorized times egress from access control panel
- **Authorized Entry** — When using an outside trim to retract the latchbolt, a preset time of ten seconds is allowed before the alarm will sound. If more or less time is required, use external inhibit input.
- **Latchbolt Status** — A SPDT relay contact, rated 1 amp @ 24VDC from the Electroguard® which provides an indication to a remote monitoring panel when the latchbolt is retracted or extended.
- **Gang Release** — Allows release of delayed action function for a bank of doors when any door in the bank goes into alarm or the external inhibit is triggered. Once external inhibit is triggered, bank of doors simultaneously releases and can be maintained in that state. Bank of doors must be operated by one power supply.
- **Signage Standard** — "Emergency Exit Only — Push until alarm sounds. Door can be opened in 15 seconds." Provided standard with every Electroguard®. Dimensions: 22-1/2" (572mm) long x 7-3/4" (197mm) high (#68-0704).

BC- Option

The BC- option for Electroguard® indicates the unit has been programmed to comply with the section of BOCA code that relates to delayed egress.

This programming change allows for automatic rearming of the delayed egress unit. Under BOCA, the unit can automatically rearm thirty (30) seconds after the door has been cycled. If the door is opened any time during the thirty (30) second period, the timer in the unit resets and waits another thirty (30) seconds before rearming. This option requires a door position switch (3287) for proper operation.

80 Series Mechanical Features

Electroguard®

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SARGENT 80 Series Exit Devices

SARGENT manufactures a full line of exit devices that includes vertical rod, rim and mortise devices for both standard and narrow stile doors.

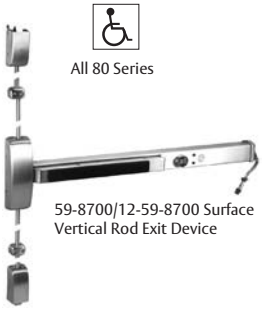
The SARGENT 80 Series provides a robust means to ensure safe egress from schools, auditoriums, public and commercial buildings during routine, daily activities and emergencies, while providing the highest level of security at the opening. Designed and manufactured to survive high use and abuse locations, SARGENT exit devices provide the best combination of **Simplicity, Strength, Durability, Aesthetics** and **Innovation** and are perfect for applications in commercial office buildings, medical and educational institutions.

59-8300/12-59-8300 Narrow Design Mortise Lock Exit Device

59-8500 Narrow Design Rim Exit Device

All 80 Series

59-8600/12-59-8600 Concealed Vertical Rod Exit Device



59-8700/12-59-8700 Surface Vertical Rod Exit Device

59-8400/12-59-MD8400 Vertical Rod Exit Device

59-8800/12-59/8800 Rim Exit Device

59-8900/12-59-8900 Mortise Lock Exit Device

Simplicity

- Chassis, rail and rod assemblies are engineered with minimum components for reduced maintenance
- Modular design allows for phased component installation. Chassis assembly can be mounted separately to latch/secure the door during construction
- Simple installation, no periodic/preventative maintenance required to maintain warranty and proper functioning
- No need to remove device for keying

Strength & Durability

- Reinforced cast (ZA) alloy chassis – exceptional strength and durability. Withstands 2X more static load forces compared to a stamped steel chassis!
- Available to meet Dade County protocols and other local hurricane code requirements for high wind load and missile impact
- Tough, tapered Lexan touch pad and optional flush end cap for a durable, aesthetically pleasing design with reduced susceptibility to damage
- Exceeds ANSI/BHMA A156.3 2001 Grade 1 testing requirements
- Complies with NFPA 80 and 101
- UL and cUL Listed for Panic
- All fire exit hardware for hollow metal door applications listed up to 3 hour, "A" label
- All fire exit hardware for wood door applications listed up to 1-1/2 hour, "B" label
- Rail assemblies and end caps are brass bronze or stainless steel with all stainless steel springs
- 5 year mechanical warranty and 2 year electromechanical warranty

Aesthetics

- Clean, simple lines
- "True" architectural hardware finishes consistent with BHMA/ANSI standards
- Broad selection of trims, including Coastal & Studio Series levers, that match other SARGENT lock product trim (reference 80 Series catalog for details)

Innovation

- Broad offering of electro-mechanical configurations offer higher security for the most demanding access/egress control applications. See Product System Manual
- Built in features to ensure quiet latchbolt operation
- Unique design of chassis, rail and outside trim protect components against vandalism, abuse and potential jobsite damage
- SARGENT uses engineered solutions and flexible manufacturing processes to accommodate special applications

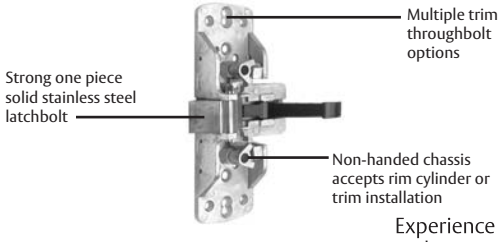
Security

- Double cylinder functions available
- Torx® and spanner screws
- Anti-vandal trim options
- Master keying with SARGENT Security key systems available (Signature, Keso, XC)

Note: For complete information, refer to the 80 Series Exit Devices catalog.

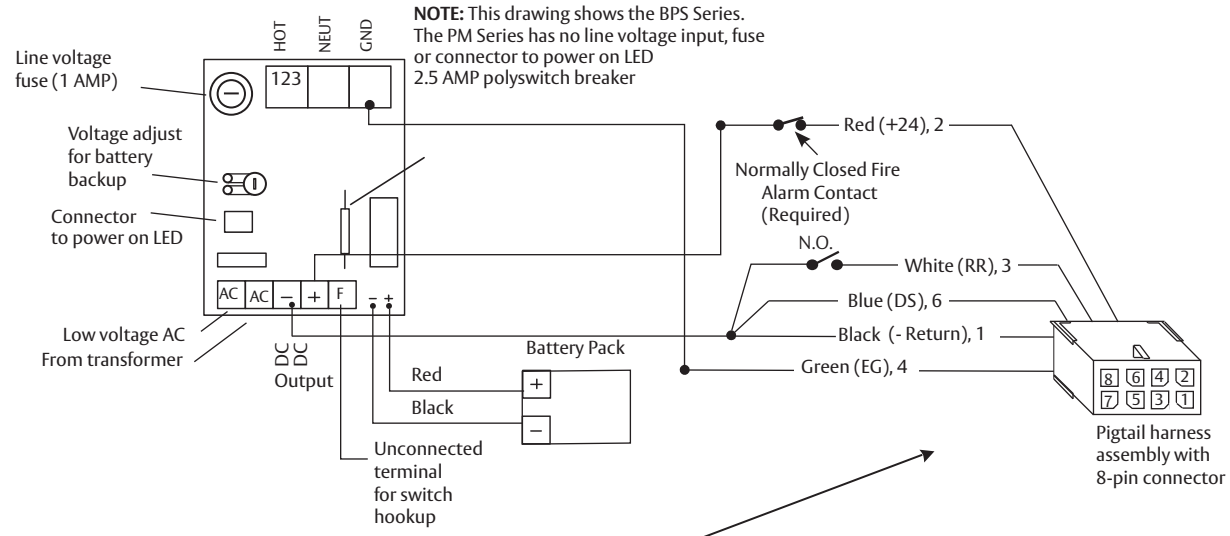
8800 Series Rim Device

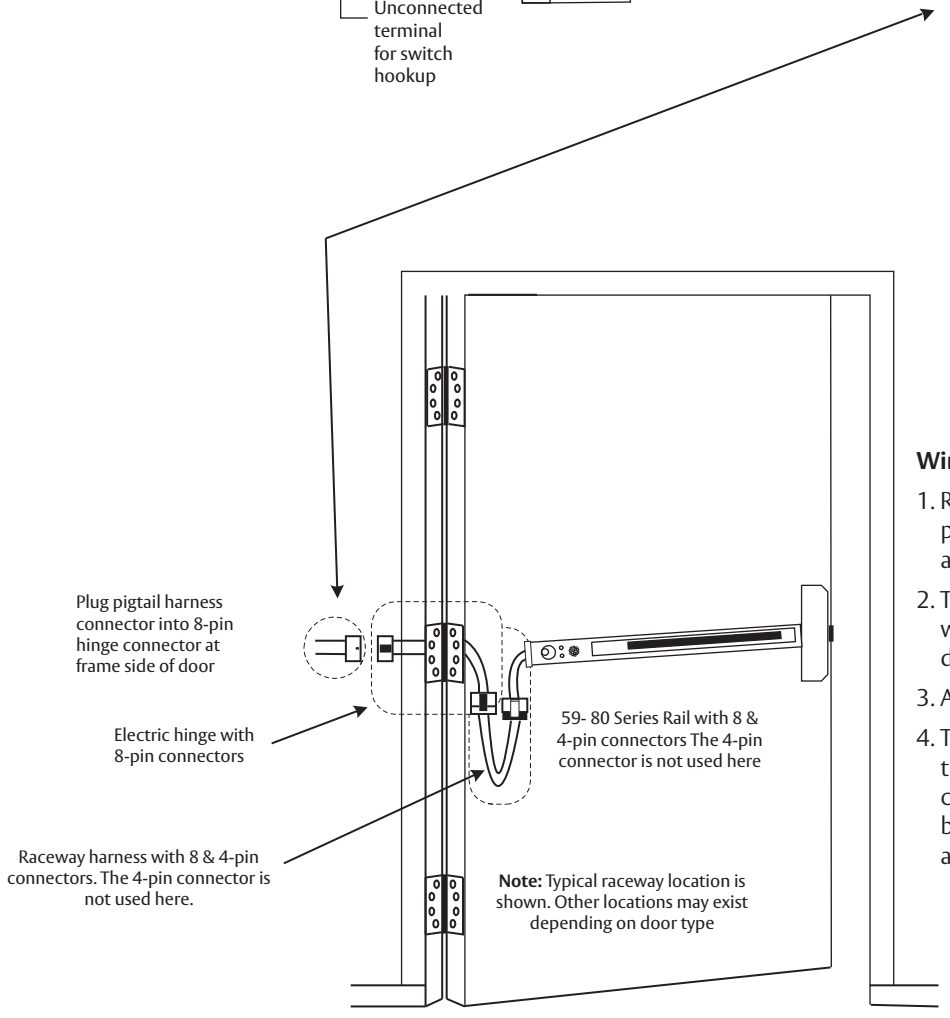
- 17 Functions, one chassis – the perfect stocking device!
- Only 7 components – less wear, less maintenance!
- ZA-27 Alloy chassis for exceptional strength and durability
- Non-handed
- Quick retrofit
- Simple door prep and installation!
- 5 year warranty



24VDC 1.0AMP Regulated and Filtered Power Supply 110-120VAC

During a fire alarm condition, the fire alarm contact opens which de-energizes the rail magnet and allows immediate egress.



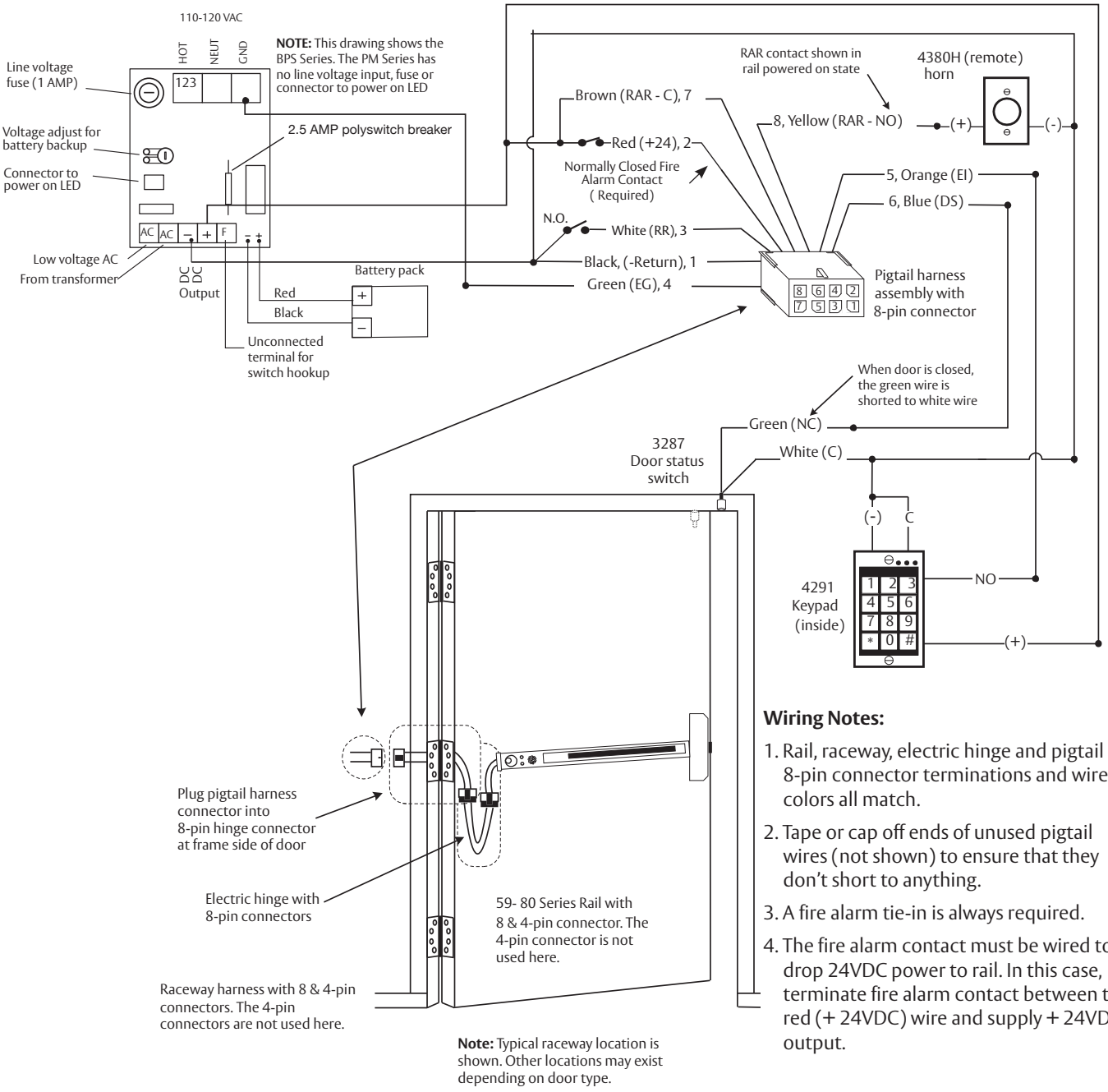


Wiring Notes:

1. Rail, raceway, electric hinge and pigtail 8-pin connector terminations and wire colors all match.
2. Tape or cap off ends of unused pigtail wires (not shown) to ensure that they do not short.
3. A fire alarm tie-in is always required.
4. The fire alarm contact must be wired to drop 24VDC power to rail. In this case, terminate fire alarm contact between the red (+ 24VDC) wire and supply + 24VDC output.

3520 24VDC 1.0AMP Regulated and Filtered Power Supply

The following is a typical point-to-point wiring diagram for an Electroguard® application with inside Keypad, Fire Alarm, Door Status and Remote Horn. A valid code entry at the 4291 (Inside) keypad shunts the Electroguard exit device and allows egress for a time period programmable at the keypad. During a fire alarm condition, the contact opens which de-energizes the rail electromagnet and allows immediate egress. When the rail is armed and the door is forced open, the 3287 door status switch signals the rail, sounding the rail alarm. When the rail is armed and violated, the remote alarm relay sends 24VDC to the 4380H remote horn.



Note: Typical raceway location is shown. Other locations may exist depending on door type.

Wiring Notes:

1. Rail, raceway, electric hinge and pigtail 8-pin connector terminations and wire colors all match.
2. Tape or cap off ends of unused pigtail wires (not shown) to ensure that they don't short to anything.
3. A fire alarm tie-in is always required.
4. The fire alarm contact must be wired to drop 24VDC power to rail. In this case, terminate fire alarm contact between the red (+ 24VDC) wire and supply + 24VDC output.

Requirements for Electrical and Data Transfer

To answer the demand for "smart" electronic access control and locking solutions that require fast, easy, and cost-effective installation, ASSA ABLOY Group brands use the ElectroLynx® standardized plug-in connectors and color-coded wiring system.

With ElectroLynx®, doorway components come pre-wired for easy hookup to the power source. Key to the system is the transfer device hinge that carries power from the frame to the locking hardware.

Features of ElectroLynx®:

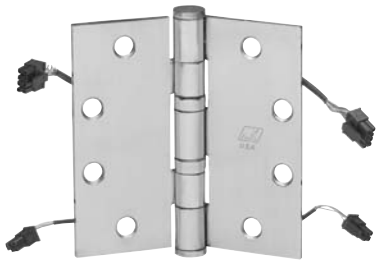
- Makes it easy to bring power to the locking hardware
- Wires have connectors that snap together, like plugging a telephone into a jack

To connect an 59-80 Series Electrified Exit device to the electronic access control system, the following items are required:

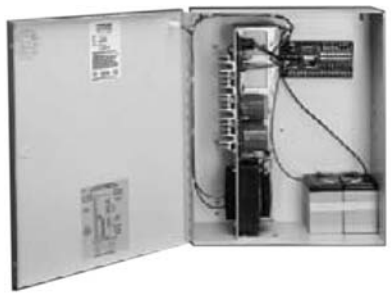
- 59-80 Series Exit Device
- ASSA ABLOY Door Group pre-wired door, or ElectroLynx® retrofit cable (order from McKINNEY)
- Electronic transfer device (ElectroLynx® electronic transfer hinge or Electrical Power Transfer with standard hinge, from McKINNEY)
- ElectroLynx® cable from the hinge to above the ceiling (order from McKINNEY)

Information regarding cable selection, hinge requirements and order strings can be found in the McKINNEY Transfer Device Solutions catalog. Consult 800-810-WIRE (9473) with questions on application specifications and requirements.

McKINNEY QC12 ElectroLynx® Hinge
for 59- Option is recommended.



24VDC Power Supplies:



- UL Class 2 Listed
- Four 24V models available
- Integral battery charging capability keeps sealed lead acid gel/cell at full charge in case of line voltage failure (738-battery sold separately)
- Fused line voltage input with one, four, or eight DC outputs (depending on model)
- Each circuit can be individually turned on and off via a slide switch; the power status of each is shown by an LED.
- In the event of a DC short the problem is confined to the zone of difficulty
- Fire alarm interface standard

SARGENT MODEL No.	DESCRIPTION
3520	24V - 1 AMP POWER SUPPLY
3540	24V - 2 AMP POWER SUPPLY
3550	24V - 4 AMP POWER SUPPLY
3570	24V - 6 AMP POWER SUPPLY
738	24V - 5 AMP HOUR BACKUP BATTERY

3287 Door Status Switch

- Can be used with Electroguard® to indicate when door is open to circuitry
- SPDT concealed switch (3 wire)
- Rated .25 amp @ 24VDC
- Requires 1" (25mm) diameter hole

Order as a 3287

4370 Key Switch

- Used for external inhibit option on Electroguard
- Contains one SPDT maintained switch to de-energize device for prolonged periods
- Face plate dimension: 4-1/2" x 2-3/4" (114mm x 70mm)
- Two LEDs indicate status: 4370L
- Contacts actuated only when key is in the cylinder and turned
- Recommend Appleton 4CS or RACO 670 Junction Box (4" [114mm] x 2-1/8" [54mm] x 1-7/8" [48mm])

Order as a 4370

4291 Indoor Key Pad

4291 Shown

- Used for external inhibit option on Electroguard® device
- Single door application
- 15 user codes (1-6 digits)
- One master code (1-6 digits)
- Momentary control adjustable (1-90 seconds)
- Maintained control - infinite
- 24VDC regulated input voltage
- Control output: 1 SPDT 5 amp, 28VDC
- Face plate dimensions: 4-1/2" x 2-3/4" (114mm x 70mm)
- 4291 Indoor Keypad
  - Designed for indoor use
  - Recommended Slater SI-18W outlet box
- 4291 Indoor Keypad
  - Designed for indoor use
  - Recommended Slater SI-18W outlet box

  Order as a 4291
- 4292 Outdoor Keypad
  - Weather resistant. Not for use in direct rain
  - Designed for outdoor use (-20°F to 130°F)
  - Recommended SARGENT 4352 outlet box or Waxman 35-276

Order as a 4292

4352 Junction Box

- Designed for use with 4292
- 4-5/8" (117mm) H x 2-7/8" (73mm) W x 2" (51mm) D
- Aluminum

Order as a 4352

4371LT Key Switch

- Used for external inhibit option on Electroguard
- Contains one SPDT switch w/electric time delay (adj. 5-120 seconds)
- Two LEDs indicate status
- Face plate dimension: 4-1/2" x 4-1/2" (114mm x 114mm)
- Recommend Appleton 132 or Raco 680 Junction Box (4" [102mm] x 4" [102mm] x 2-1/8" [54mm])

Order as a 4371

Mechanical Options:

Categories	How to Specify	Detailed Description
Fire Rated	**12-**	UL Fire Label Exit hardware
SVR Bolt	**14-**	Sliding bolt bottom case for 8700
Cylinder Dogging	**LD-**	Less dogging for non fire rated devices
Less Touch Pad	**19-**	Pushbar without Lexan touchpad
8900/8300 Strike	**23-**	4-7/8" (124mm) ANSI flat lip strike (for 8900 & 8300 Series Mortise Lock Exit Devices)
Thick Doors	**31-**	Doors over 1-3/4" and/or Panels (Specify door thickness, panel thickness & location as required) Extended lip strike supplied for 8300 & 8900 Series
Security Fasteners	**36-**	Six lobe security head screws
	37-	Spanner head screws
Flush End cap	**43-**	Flush End Cap
Electrical Options	**54-**	Monitors ET Lever movement with Internal micro switch in ET Control (available upon request)
	59-	Electroguard® Self Contained Delayed Egress Device (not available with 16-, 53-, 55-, 56-, 57-, 58-, AL-, BT-, GL-, HC- & WS Option Prefixes, PP/PR/SP8600, LP/LR/LS8600 Exit Devices) (NB, 54- are available upon request)
	BC-59-	Electroguard® Boca Code (Door Status Switch required) (not available with 16-, 55-, 56-, 57-, 58-, AL-, BT-, GL-, HC- & WS- Options and on NB8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)
Tactile Warning Options	**76-**	Tactile Warning - Milled Outside Lever (Not available with Studio & Coastal Levers and the A Lever)
	85-	Tactile Warning - Abrasive strip on Push Rail (Not available with PL-)
	86-	Tactile Warning - Abrasive coating on Outside Lever
	87-	Tactile Warning - Abrasive strip on Push Rail & Abrasive coating on Outside Lever (Not available with PL-)
Finish Protection	**CPC-**	Clear Powder Coat (Available for 32 & 32D Finishes)
	SG-	MicroShield® antimicrobial clear powder coat (Available with 15, 26D, and 32D finishes)
SARGuide	**PL-**	SARGuide™ PL – Photoluminescent Coated Push Rail – (Touchpad eliminated) (Not available 85- & 87-)
Through Bolts	**TB-**	Through Bolts for 8300, 8500, 8600, 8700, 8800 & 8900 Devices

Cylinder Options:

Degree Key System	**DG1-**	SARGENT Degree Key System Level 1 (Bump resistant with patented keys)
	DG1-21-	Degree Level 1 Construction Master Keying
	DG1-60-	Degree Level 1 Removable Disposable Construction Core
	DG1-63-	Degree Level 1 Removable Core
	DG1-64-	Degree Level 1 Removable Construction Keyed LFIC
	DG1-65-	Degree Level 1 Unassembled/Uncombined Core
	DG2-	SARGENT Degree Key System Level 2 (Geographically exclusive;bump and pick resistant)
	DG2-21-	Degree Level 2 Construction Master Keying
	DG2-60-	Degree Level 2 Removable Disposable Construction Core
	DG2-63-	Degree Level 2 Removable Core
	DG2-64-	Degree Level 2 Removable Construction Keyed LFIC
	DG2-65-	Degree Level 2 Unassembled/Uncombined Core
	DG3-	SARGENT Degree Key System Level 3 (Geographically exclusive; UL437 certified; bump and pick resistant
	DG3-21-	Degree Level 3 Construction Master Keying
	DG3-60-	Degree Level 3 Removable Disposable Construction Core
	DG3-63-	Degree Level 3 Removable Core
	DG3-64-	Degree Level 3 Removable Construction Keyed LFIC
Conventional Cylinder	-	SARGENT Conventional Cylinders Supplied Standard (Unless Otherwise Specified)
Signature Key System	**10-**	SARGENT Signature Key System (Not Available with other Key Systems)
	10-21-	SARGENT Signature Construction Key System (Lost Ball)
Signature- LFIC Removable Core	**10-63-**	SARGENT Signature Removable Core Cylinder
XC- Key System	**11-**	XC Key System (Not available with other Key systems unless specified)
	11-21-	XC- Construction Key System (Lost Ball)
XC- Large Format Interchangeable Core (Removable Core)	**11-60-**	Device to accept XC- Permanent Removable Core, Disposable plastic Core- provided
	11-63-	Device provided with XC- Removable Core Cylinder - (Includes masterkeying, grand masterkeying)
	11-64-	Device provided with Keyed construction core to accept XC- Removable Permanent Core (ordered separately)
XC- Small Format Interchangeable Core	**11-70-7P-**	Device to accept XC- SFIC (7-Pin) XC- Permanent Cores, plastic disposable core provided
	11-72-7P-	Device to accept XC- SFIC (7-pin Keyed Construction Core provided) cylinder Permanent core ordered separately
	11-73-7P-	Device provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)
	11-65-73-7P-	Device provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose)
Construction Key Systems	**21-**	SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)
	22-	SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) (N/A with 10-, 11-, 63- or 73-)
Old Style Removable Core	**51-**	Removable Core Cylinder (Old Style) provided (existing systems only)
	52-	Removable Construction Core (Old Style) Permanent core ordered separately (existing systems only)
Large Format Interchangeable Core (Removable Core)	**60-**	Device to accept SARGENT Permanent Removable Core, Disposable plastic Core provided (Permanent Cores ordered separately)
	63-	Device provided with Removable Core Cylinder - (Includes masterkeying, grand masterkeying)
	64-	Device provided with Keyed construction core to accept Removable Permanent Core (ordered separately)
Small Format Interchangeable Core	**70-**	Device to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided
	72-	Device to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core ordered separately)
	73-	Device provided with 6-pin SFIC (Includes masterkeying, grand masterkeying)
	65-73-	Device provided to accept Uncombinated 6-Pin SFIC (Permanent) Core - (Packed Loose for field keying)
	65-73-7P-	Device provided to accept Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose for field keying)
	73-7P-	Device provided with Small Format 7-Pin Interchangeable Core (Includes masterkeying, grand masterkeying)
Keso & Keso F1	**81-**	Device provided with housings to accept Keso (83) & Keso F1 (F1-83-) removable cores. (Permanent Cores ordered separately)
	82-	Device provided with SARGENT Keso Security Cylinder
	F1-82-	Device provided with SARGENT Keso F1 Security Cylinder (Patented)
	83-	Device provided with SARGENT Keso Security Removable Core cylinder
	F1-83-	Device provided with SARGENT Keso F1 Security Removable Core cylinder (Patented)
	84-	Device provided with SARGENT Keso Construction Cores (Permanent Cores ordered separately)
Added Security	**BR-**	Bump Resistant Cylinder (Available with Conventional & Conventional XC Cylinders Only)
Less Cylinder	**LC-**	Less Cylinder - SARGENT supplies standard blocking rings for 1-1/8" Cylinders (For longer cylinders order collars/rings separately)
Schlage Keyways	**SC-**	Schlage C keyway cylinder, 0 bitted (not available with: 8904, 8916, 8944, 8975, 8976, 8866, 8304, 8344, 8375 & 8376)
	SE-	Schlage E keyway cylinder, 0 bitted (not available with: 8904, 8916, 8944, 8975, 8976, 8866, 8304, 8344, 8375 & 8376)
Lever to Accept Schlage	**SF-**	L Lever to accept Medeco KeyMark Large Format Interchangeable and Schlage Full Size Interchangeable Core (Supplied Less Cylinder, but with tailpiece needed) (Available for 88-KLL & 88-CLL)

Note: For V-10 Cylinders and information, contact ASSA. For cylinder size options, refer to the SARGENT 80 Series catalog.

How to Order Exit Devices

Example Order:

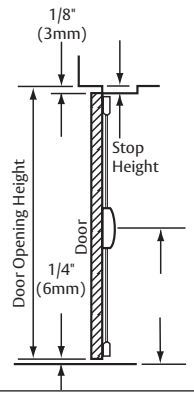
59-	89	75	F	ETMR	12VDV	RHR	26D	32D	36"	84"	41"
Options	**Device Type**	**Function**	**Rail Size**	**Trim**	**Voltage**	**Hand**	**Outside Finish**	**Inside Finish**	**Door Width**	**Opening Height**	**AFF**
Available Options Listing Pages 9-10	89 - Mortise	04 - Night Latch	E 24"-32"	For ET trim specify ET followed by Lever design,	12VDC	RHR	Available Finishes page 12	Inside Finish Available Finishes page 12	If door width is supplied rails will be cut to size	Required for Vertical Rod Exit Devices	Center Line of Rail Above Finish Floor 41" Standard
	88 - Rim	06 - Night latch	F 33"-36"		24V0DC	LHR					
	87 - SVR	10 - Dummy	J 37"-42"		Voltage required for Solenoid Controlled Functions - 73, 74, 75 & 76						
	MD86 - CVR	13 - Classroom	G 43"-48"								
	AD86 - CVR	15 - Passage		For Thumbpiece Trims and Pulls specify Trim Designation as specified by Device Type							
	WD86 - CVR	16 - Entrance									
	85 - Rim Narrow	28 - TP Passage									
	MD84 - CVR Narrow	40 - FW Dummy									
	AD84 - CVR Narrow	43 - FW Classroom									
	83 - Mortise Narrow	44 - FW Night Latch									
	PP87 - CTL SVR	46 - FW Night Latch									
	PR87 - CTL SVR	62 - TP Night Latch									
	SP87 - CTL SVR	63 - TP Classroom									
		66 - TP Entrance									
		73 - Solenoid Fail Safe									
		74 - Solenoid Fail Secure									
		75 - Solenoid Fail Safe w/Cyl									
		76 - Solenoid Fail Secure w/Cyl									

Legend

AD -	Aluminum Door	HC -	Hurricane Code
AFF -	Above Finish Floor	MD -	Metal Door
CTL -	Center & Top Latching Exit	NB -	No Bottom Rod
CVR -	Concealed Vertical Rod	SVR -	Surface Vertical Rod
ET -	SARGENT External Lever Trim	TP -	Thumbpiece Trim
FM -	FEMA	WD -	Wood Door
FW -	Freewheeling Trim	WS -	Windstorm

Mounting Heights

- 41" (1041mm) from finished floor for standard application
- 38" (965mm) from finished floor for elementary schools and to meet local accessibility standards when a 100 or 300 Series Auxiliary Control is used (38" AFF must be specified)



Hand

2.01 Delayed Egress Exit Devices

A. Delayed egress exit devices shall be Electroguard® Series push rail devices as manufactured by SARGENT Manufacturing Company, New Haven, CT.

B. Delayed egress exit devices shall be certified to meet or exceed the requirements of ANSI/BHMA A156.3 Grade 1.

C. Delayed egress exit devices shall be listed by Underwriters Laboratories for panic and bear the UL label for life safety in full compliance with NFPA 80 and NFPA 101. Exit devices for fire labeled doors shall be UL listed as "Fire Exit Hardware".

D. The delayed egress system shall meet all requirements as set forth in ANSI/NFPA 101 Life Safety Code for Special Locking Arrangements.

E. Exit devices shall comply with UL 10C positive pressure requirements.

F. Construction:
1. Chassis shall be of heavy duty cast design with one piece drawn non-ferrous removable covers matching the material of the push and mounting rails.
2. Stamped steel chassis are not acceptable.
3. Mounting rails shall be formed from a solid single piece of stainless steel, brass or bronze no less than 0.072 inches thick.
4. Push rails shall be constructed of 0.062 inch thick material in the same manner as the mounting rail. Painted or anodized aluminum shall not be considered heavy duty and are not acceptable.
5. Provide protective Lexan touchpad on the exit device push rail to prevent scratches and serve as a visible guide to the user.
6. Metal end caps shall be formed from the same base metal as the push and mounting rails.

G. Exit devices shall have a maximum of 3 inches projection from the face of the door in the non-dogged position. When in the dogged position, the device shall have no more than a 2-1/8" projection from the door face.

H. The design of the exit device shall eliminate the necessity of removing the device from the door for standard maintenance or keying changes.

I. The device chassis shall be mounted and operable without the need of the rail or the chassis cover.

J. Trim shall be through-bolted.

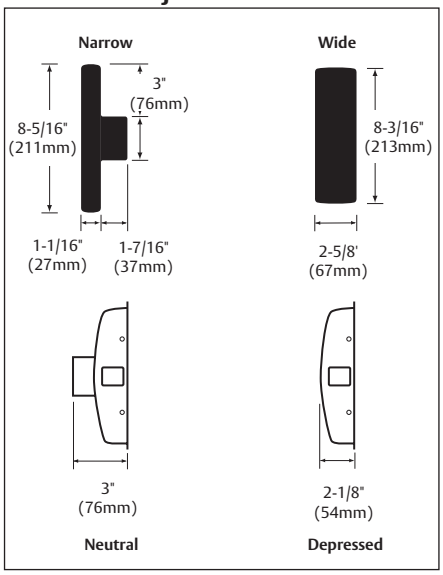
K. Devices shall be available with matching trim for both wide and narrow stile doors.

L. Exit device operating lever trim shall withstand 1100 inch pounds of torque without allowing access.

M. Lever trim shall be available in architectural finishes and designs to match that of the locksets specified.

N. Delayed egress devices shall have a two year limited warranty.

Cover Dimensions and Touchbar Projections



Finishes

ANSI/ BHMA	Finish	Description
3	Polished brass, clear coated	605
4	Satin brass, clear coated	606
9	Polished bronze, clear coated	611
10	Satin bronze, clear coated	612
10B	Oxidized bronze, oil rubbed	613
10BE	Dark Oxidized Satin Bronze - Equivalent	613E
10BL	Oxidized satin, bronze, clear coated	614
14	Polished nickel, clear coated	618
15	Satin nickel, clear coated	619
20D	Statuary dark bronze, clear coated	624
26	Polished chrome	625
26D	Satin chrome	626
32	Bright stainless steel	628
32D	Dull stainless steel	630
—	Black Suede Powder Coat	BSP

Note: ** 14, 15, 26 & 26D Finishes are available on external trims only, the exit devices will be supplied in 32 or 32D accordingly. When 32 or 32D is specified, the trim will be supplied in 26 or 26D accordingly, if 32 & 32D is not available.

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