Symphony®

Integrated Wiegand Access Control

An ASSA ABLOY Group brand

ASSA ABLOY

overview

authorized channel partner and certified integrator programs

Symphony® is part of a stream of new ASSA ABLOY products moving from traditional mechanical locks to being extensions of access control systems in facilities. These exciting new technology-rich products require an increase in knowledge to ensure the correct selection and implementation in various environments.

Sold through ASSA ABLOY AUTHORIZED CHANNEL PARTNER

To be Installed by ASSA ABLOY CERTIFIED INTEGRATOR

To aid our customers in this area, ASSA ABLOY has created two programs that provide the necessary training to sell, order, install and service our technology products, including Integrated Wiegand, IP-enabled and self-configurable intelligent components:

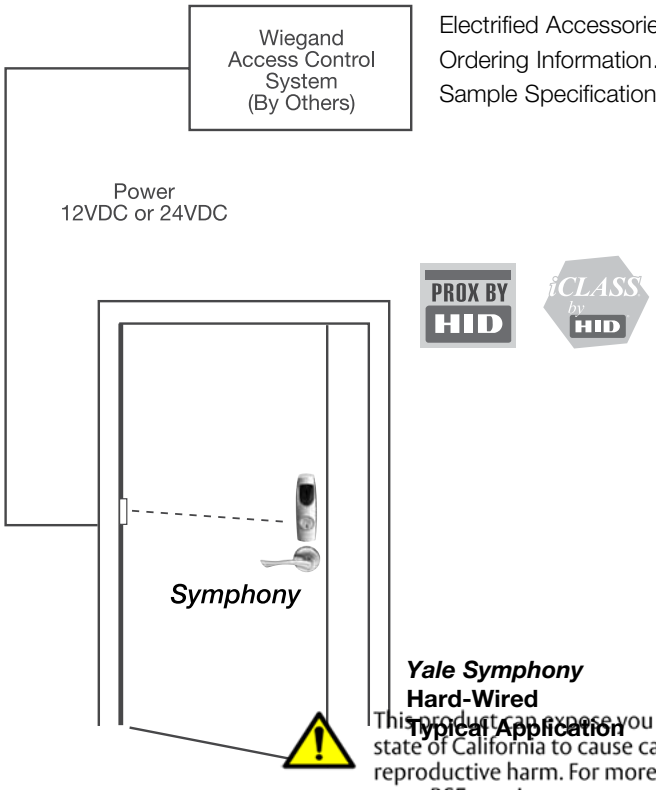
- The Authorized Channel Partner (ACP) program is open to wholesale and contract hardware distributors, who sell ASSA ABLOY's technology products to security systems integrators and locksmiths, and help with product selection based on the application. The ACP is for resellers that do not install and service products.
- The Certified Integrator (CI) program provides hands-on training for security systems integrators and network administrators. Not only does this training familiarize certified integrator candidates on product features and applications, it also gives them valuable experience installing, commissioning, and troubleshooting the products in a real-world environment. This category extends to End Users that install and manage their own systems and third party lock installers as well.

For more information on the qualifications for becoming an ACP or CI, contact your local ASSA ABLOY Door Security Solutions sales consultant for details.

Designed with architects and designers in mind, the *Symphony* proximity readers are housed in a smaller size trim, but there is nothing small about the security features inside.

Symphony is ideal for corporate campuses, educational facilities, healthcare facilities or government facilities.

The *Symphony* seamlessly integrates a full range of Grade 1 Yale® electromechanical hardware—from mortise locks to cylindrical locks and exit devices—into your Wiegand access control system. *Symphony* is available with proximity readers to accept either HID 125 kHz (26-39) or iCLASS® 13.56 MHz (2K-32K) formats. Customized monitoring options, wide range of quality hardware and easy system expansion define the *Symphony* advantages. For continuity of design, the *Symphony* series is available with lever designs and finishes for all three types of locks.



Yale Symphony
Hard-Wired
Typical Application

contents

features and benefits

features

Wiegand Open Architecture:

- Cost effective, easy system expansion
- Integrates mechanical door hardware with existing access control system
- The readers are housed within the exterior escutcheon and are available to accept all HID 125 kHz (26-39 bit) or iCLASS® 13.56 MHz (2K-32K) formats.

benefits

Consolidates all components into the lock

- Incorporates card reader and DPS, REX and Latchbolt monitoring sensors with ANSI/BHMA Grade 1 electromechanical lock hardware
- Requires only one cable run from lock to access control panel
- Maintains architectural integrity around the door
- 50% faster installation for lower installed cost and reduced disruption

Open architecture platform is compatible with all popular access control systems. Elegant design with numerous architectural elements to match or enhance your decor

- Complete hardware portfolio, including mortise, cylindrical and exit device locking hardware

Supports HID 125 kHz (26-39 bit) or iCLASS® 13.56 MHz (2K-32K) proximity credentials, including Corporate 1000, to match your card format.

A.D.A

Symphony Series Locks and Exit Device Trims meet accessibility guidelines of the Americans with Disabilities Act and the requirements of the Uniform Federal Accessibility Standards and ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities, all requiring ease of accessibility for the handicapped.

MicroShield®

Symphony Series Locks and Exit Devices and Trims are available with *MicroShield* antimicrobial coating. *MicroShield* is a revolutionary new hardware finish coating which permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. *MicroShield* is nontoxic and lasts for the lifetime of the finish to which it is applied. To order, suffix option code “YMS”. Available for 626 and 630 finishes, additional finishes by special application. Contact factory for availability.

Note: *MicroShield* coating may vary finish color from architectural standards.

proximity readers

Symphony Series locks and exit device trims are available with HID 125 kHz (26-39 bit) or iCLASS® 13.56 MHz (2K-32K) readers. The required reader must be specified by indicating option code:

Reader Technology	Option Code
Proximity - 125 kHz	T002
Smart Card - iCLASS® Read Only 13.56 MHz	T003

- 125 kHz reader: requires 12VDC
- 13.56 MHz iCLASS® reader: will operate with either 12VDC or 24VDC
- Solid cast escutcheon
- Operating temperature -40°F to 135°F (-40°C to 57°C)
- LEDs indicate valid/invalid credentials
- Highest point of projection is 7/8" (22mm)
- Patent pending

Mortise Lock

Cylindrical Lock

Exit Device Trim

mortise lock

The Symphony® S8800 x SYM series mortise lock integrates into an existing Wiegand-compatible access control system monitoring Latchbolt position, Request to Exit, and Door Position status, all within the lockbody. Secure door position monitoring feature ensures latchbolt is extended when door is closed. The Grade 1 *Symphony* mortise lock is designed to meet the rigors of high traffic commercial, institutional, industrial and government applications. Constructed of heavy-gauge steel, the lockbody features our patented (patent #'s 7,108,300 and 7,510,222) quick reversible latchbolt, and a 1" stainless steel deadbolt.

ANSI/BHMA

Designed to meet requirements of ANSI/BHMA A156.13, Grade 1.

backset

2-3/4" (70mm) only.

bevel front

Fronts are free-floating to adjust from flat to the standard bevel of 1/8" in 2".

cylinders

Symphony series mortise locks accept 1-3/8" or 1-1/2" mortise cylinders for 1-3/4" to 2" thick doors and 1-5/8" or 1-3/4" for 2-1/4" thick doors. Yale® 2153 x 1-3/8" x 2160 cam x 6-pin mortise cylinder furnished standard. Optional cylinders available to order.

deadbolt

1" throw, stainless steel with two enclosed hardened-steel roller armor pins.

door thickness

Symphony series mortise locks are supplied as standard for 1-3/4" thick doors, to 2-1/4" thick doors available as specified.

electrical specifications

- 12VDC or 24VDC solenoid operated mortise lock available as Fail Safe or Fail Secure (voltage must be specified)

- 125 kHz Reader (requires 12VDC):

  12VDC System with 12VDC Solenoid
  150mA Reader draw (maximum)
  612mA 12VDC Solenoid draw
  762mA Total system draw

  12VDC System with 24VDC Solenoid
  150mA Reader draw (maximum)
  330mA 24VDC Solenoid draw
  480mA Total system draw

- 13.56 MHz iCLASS Reader (will operate with either 12VDC or 24VDC):

  12VDC System
  125mA Reader draw (maximum)
  612mA 12VDC Solenoid draw
  737mA Total system draw

  24VDC System
  125mA Reader draw (maximum)
  330mA 24VDC Solenoid draw
  455mA Total system draw

fire listing

All functions are UL-cUL Listed for use on fire doors having a rating up to and including 3-hours.

handing

Handed; quick reversibility. The lockset can be re-handed without disassembling the lock body.

latchbolt

3/4" throw, stainless steel two-piece anti-friction camming action.

monitoring

- Request to exit.
- Secure door position monitors latchbolt and guardbolt position in series.

strikes

- Wrought brass, bronze or stainless steel ANSI non-handed curved lip, model number 2815 standard, 4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/4" (32mm) lip to center.
- Optional strikes, lip lengths and ANSI wrought strike box available.

warranty

Symphony series mortise locks carry a 10-year mechanical and 2-year electrical warranty.

finishes

ANSI/ BHMA Code	Finish Description	ANSI/ BHMA Code	Finish Description
605	Bright Brass, Clear Coated	618	Bright Nickel Plated, Clear Coated
606	Satin Brass, Clear Coated	619	Satin Nickel Plated, Clear Coated
611	Bright Bronze, Clear Coated	625	Bright Chrome Plated
612	Satin Bronze, Clear Coated	626	Satin Chrome Plated MicroShield
613	Dark Oxidized Satin Bronze, Oil Rubbed	629	Bright Stainless Steel
613E	Dark Oxidized Satin Bronze - equivalent	630	Satin Stainless Steel MicroShield

lever designs

standard

Arcadia AR	Augusta AU	Carmel CR	Jefferson JN	Monroe MO
				
Pacific Beach PB	Pinehurst PN	Virginia VI	Hampton HA	
				

Reflections®

Hudson	TB 	UB 	TC 	UC 	TC 			
Danube	TE 	TI 						
Seine	TG 	TO 	TJ 	TK 				
Thames	TM 	TN 	TP 	TR 	TS 	TQ 		
Victoria	TT 	TU 	TV 	TW 	UW 	TX 	UX 	TU 	TZ 
Niagara	MA 	RA 	RB 	RC 				

roses

For All Lever Designs Except Hampton			
R (std.)		R6	
R3		R7	
R4		R8	
R5			

For Hampton Only	
R1	
R2	

dimensions

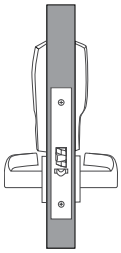
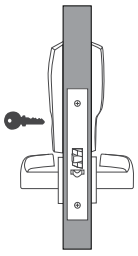
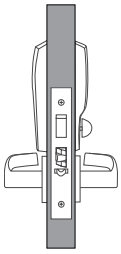
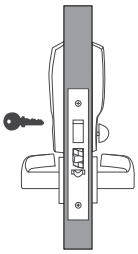
Outside

Highest point of projection 7/8" (22 mm) less lever

Inside

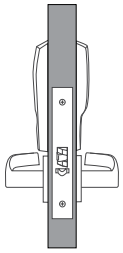
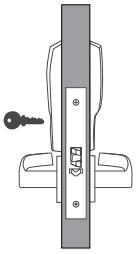
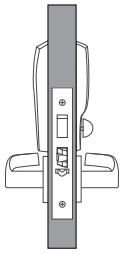
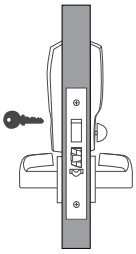
Highest point of projection 7/8" (22 mm) less lever

functions

Outside / Inside	Model Number & Option		Description	Operation
	Standard Levers	Reflections® Levers		
	S8880FL x SYM	S8880RL x SYM	Fail Safe No Cylinder No Deadbolt	• Fail Safe - Power off unlocks outside trim • Deadlocking latchbolt • Latchbolt retracted by inside lever at all times • Outside lever rigid except when valid user credential presented • Request to exit and secure door position monitor are standard
	S8890FL x SYM	S8890RL x SYM	Fail Safe With Key Override No Deadbolt	• Fail Safe - Power off unlocks outside trim • Deadlocking latchbolt • Latchbolt retracted by inside lever at all times • Outside lever rigid except when valid user credential presented • Key outside retracts latchbolt • Request to exit and secure door position monitor are standard
	S8886FL x SYM	S8886RL x SYM	Fail Safe No Cylinder With Deadbolt	• Fail Safe - Power off unlocks outside trim • Deadlocking latchbolt • Latchbolt and deadbolt retracted simultaneously by inside lever at all times • Outside lever rigid except when valid user credential presented • Thumbturn inside extends and retracts deadbolt • Request to exit and secure door position monitor are standard
	S8896FL x SYM	S8896RL x SYM	Fail Safe With Key Override With Deadbolt	• Fail Safe - Power off unlocks outside trim • Deadlocking latchbolt • Latchbolt and deadbolt retracted simultaneously by inside lever at all times • Outside lever rigid except when valid user credential presented • Key outside projects or retracts deadbolt and retracts latchbolt • Thumbturn inside extends and retracts deadbolt • Request to exit and secure door position monitor are standard

Refer to page 20 for ordering example.

functions

Outside	Inside	Model Number & Option		Description	Operation
		Standard Levers	Reflections® Levers		
		S8881FL x SYM	S8881RL x SYM	Fail Secure No Cylinder No Deadbolt	• Fail Secure - Power off, trim outside is locked • Deadlocking latchbolt • Latchbolt retracted by inside lever at all times • Outside lever rigid except when valid user credential presented • Request to exit and secure door position monitor are standard
		S8891FL x SYM	S8891RL x SYM	Fail Secure With Key Override No Deadbolt	• Fail Secure - Power off, trim outside is locked • Deadlocking latchbolt • Latchbolt retracted by inside lever at all times • Outside lever rigid except when valid user credential presented • Key outside retracts latchbolt • Request to exit and secure door position monitor are standard
		S8887FL x SYM	S8887RL x SYM	Fail Secure No Cylinder With Deadbolt	• Fail Secure - Power off, trim outside is locked • Deadlocking latchbolt • Latchbolt and deadbolt retracted simultaneously by inside lever at all times • Outside lever rigid except when valid user credential presented • Thumbturn inside extends and retracts deadbolt • Request to exit and secure door position monitor are standard
		S8897FL x SYM	S8897RL x SYM	Fail Secure With Key Override With Deadbolt	• Fail Secure - Power off, trim outside is locked • Deadlocking latchbolt • Latchbolt and deadbolt retracted simultaneously by inside lever at all times • Outside lever rigid except when valid user credential presented • Key outside projects or retracts deadbolt and retracts latchbolt • Thumbturn inside extends and retracts deadbolt • Request to exit and secure door position monitor are standard

Refer to page 20 for ordering example.

cylindrical lock

The Grade 1 Symphony® S5400LN x SYM series cylindrical lock seamlessly integrates into an existing Wiegand-compatible access control system. Door monitoring capabilities include Request to Exit which monitors movement of the inside lever and external Door Position Switch. The *Symphony* cylindrical lock offers a clean, crisp design and a choice of a wide range of hardware finishes.

ANSI/BHMA

Designed to meet requirements of ANSI/BHMA A156.2, Grade 1.

backset

2-3/4" (70mm) standard, 3-3/4" (95mm) and 5" (127mm) optional.

cylinders

Symphony series cylindrical locks accept Yale® component cylinders,1802 x 6-pin furnished standard. Optional cylinders and lever formats available to order.

door thickness

Patented (patent no. 6,131,970) door adjustable rose support plates allow for easy adjustment of lockset to fit doors ranging in thickness from 1-3/4" to 2-1/4".

electrical specifications

- 12VDC or 24VDC solenoid operated cylindrical lock available as Fail Safe or Fail Secure (voltage must be specified).

- 125 kHz Reader (requires 12VDC):

  12VDC System with 12VDC Solenoid
  150mA Reader draw (maximum)
  300mA 12VDC Solenoid draw
  450mA Total system draw

  12VDC System with 24VDC Solenoid
  150mA Reader draw (maximum)
  150mA 24VDC Solenoid draw
  300mA Total system draw

- 13.56 MHz iCLASS Reader (will operate with either 12VDC or 24VDC):

  12VDC System
  125mA Reader draw (maximum)
  300mA 12VDC Solenoid draw
  425mA Total system draw

  24VDC System
  125mA Reader draw (maximum)
  150mA 24VDC Solenoid draw
  275mA Total system draw

fire listing

All functions are UL-cUL Listed for use on fire doors having a rating up to and including 3-hours.

free wheeling lever trim

Symphony series cylindrical locks feature the patented (Patent No. 4,920,773) Free Wheeling lever mechanism. When the outside lever is locked, it will rotate freely up and down while remaining securely locked.

handing

Symphony series cylindrical locks are non-handed.

latchbolt

Stainless steel 1/2" throw, deadlocking with 2-1/4" x 1-1/8" front, flat or beveled. Optional 3/4" throw available.

lock chassis

Steel, zinc dichromated for corrosion resistance.

monitoring

- Request to exit.
- External door position switch included to allow for full monitoring.

strike

Wrought brass or stainless steel ANSI curved lip, model number 497 standard, 4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/4" (32mm) lip to center. Optional strikes, lip lengths and ANSI wrought strike box available.

warranty

Symphony series cylindrical locks carry a 7-year mechanical and 2-year electrical warranty.

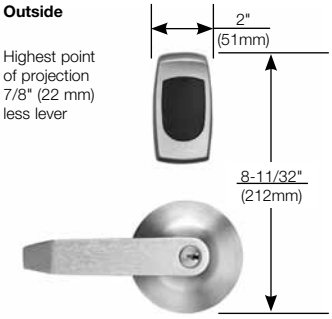
finishes

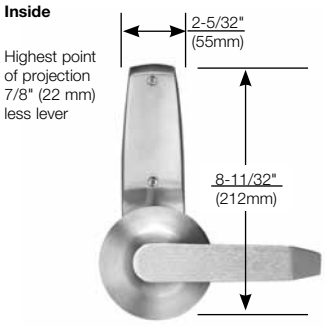
ANSI/ BHMA Code	Finish Description
605	Bright Brass, Clear Coated
606	Satin Brass, Clear Coated
612	Satin Bronze, Clear Coated
613	Dark Oxidized Satin Bronze, Oil Rubbed
613E	Dark Oxidized Satin Bronze - equivalent
618	Bright Nickel Plated, Clear Coated
619	Satin Nickel Plated, Clear Coated
625	Bright Chrome Plated
626	Satin Chrome Plated

lever designs

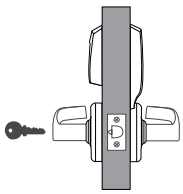
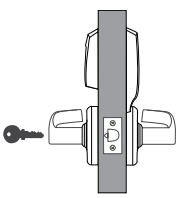
Augusta AU	Monroe MO	Pacific Beach PB
		

dimensions





functions

Outside Inside	Model Number & Option	Description	Operation
	S5490LN x SYM	Fail Safe Key Override	• Fail Safe - Power off unlocks outside trim • Latchbolt retracted by inside lever at all times • Key outside retracts latchbolt • Outside lever locked (freewheeling) except when valid user credential presented • Request to exit is standard • External door position status switch included to allow for full monitoring
	S5491LN x SYM	Fail Secure Key Override	• Fail Secure - Power off, trim outside is locked • Latchbolt retracted by inside lever at all times • Key outside retracts latchbolt • Outside lever locked (freewheeling) except when valid user credential presented • Request to exit is standard • External door position status switch included to allow for full monitoring

Refer to page 20 for ordering example.

exit devices and trim

The Grade 1 Symphony® 7100 x SYM series exit devices seamlessly integrate into an existing Wiegand compatible access control system. A wide range of monitoring capabilities, which include Request to Exit (rail monitoring) as standard, achieve a high level of security. An external door position switch further augments door monitoring.

The *Symphony* exit device product selection is the most extensive exit device access control offering available from Yale. Rim devices, mortise lock exits, concealed vertical rod devices, as well as surface mounted vertical rods exit devices, are all available.

Type		Device	Outside Trim Fail Safe/Fail Secure
	Rim	7100(F) x SYM	692F/693F
	SquareBolt®	7150(F)(WS) x SYM	
	Surface Vertical Rod (SVR)	7110(F) x SYM	694F/695F
		7170(F90)(WS) x SYM	
	Concealed Vertical Rod (CVR)	7120(F) x SYM	692F/693F
		7160(F90) x SYM	
	Mortise	7130(F) x SAFE or SECURE x SYM	696F/696F

features

ANSI/BHMA
Designed to meet requirements of ANSI/BHMA A156.3, Grade 1.

cylinders
Symphony® series exit device trims accept Yale® rim and/or mortise cylinders. Standard cylinders are not supplied, cylinders must be specified and ordered separately.

Rim cylinders: Used for 692F, 693F, 694F, 695F
Mortise cylinders: Used for 696F

device projection
3-1/4" (83mm) active, 2-3/4" (70mm) depressed

door opening width
-24 for 24" (60cm) doors
-36 for 30" - 36" (76cm - 91cm) doors
-48 for 36" - 48" (91cm - 122cm) doors
Optional sizes can be special ordered. Consult Technical Product Support.

door thickness
1-3/4" (44mm) standard. 2" and 2-1/4" (51mm and 57mm) optional; specify when ordering.

electrical specifications
- 24VDC only solenoid operated exit trim available as Fail Safe or Fail Secure

- 125 kHz Reader (requires 12VDC):

  12VDC System with 24VDC Solenoid
  150mA Reader draw (maximum)
  330mA 24VDC Solenoid draw
  480mA Total system draw

- 13.56 MHz iCLASS Reader (will operate with either 12VDC or 24VDC):

  24VDC System
  125mA Reader draw (maximum)
  330mA 24VDC Solenoid draw
  455mA Total system draw

fire listing
All devices listed for safety as panic hardware; devices comply with UL 305 standards for panic hardware. Three-hour fire-rated devices listed as fire exit hardware for A label and lesser class 4' x 8' single or 8' x 8' double doors; UL symbol on active case cover indicates listing.

handing
Rim devices are non-handed. All other devices and lever trim are handed.

monitoring
- Request to exit
- External door position switch included to allow for full monitoring

NFPA
All exit devices comply with NFPA 101 Life Safety Code.
All fire-rated devices comply with NFPA 80 Fire Doors and Windows.

stile
Minimum width 4-1/2" (114mm)

strikes
Standard 7000 series exit device strikes provided in conjunction with device type. Optional strikes available to order.

warranty
Symphony series exit device trim carries a 5-year mechanical and 2-year electrical warranty.

finishes

ANSI/ BHMA Code	Finish Description
605	Bright Brass, Clear Coated
606	Satin Brass, Clear Coated
611	Bright Bronze, Clear Coated
612	Satin Bronze, Clear Coated
613	Dark Oxidized Satin Bronze, Oil Rubbed
613E	Dark Oxidized Satin Bronze - equivalent
618	Bright Nickel Plated, Clear Coated
619	Satin Nickel Plated, Clear Coated
626	Satin Chrome Plated (Trim only) MicroShield
629*	Bright Stainless Steel
630*	Satin Stainless Steel MicroShield

***Trims are nickel plated to match stainless steel.**

lever designs

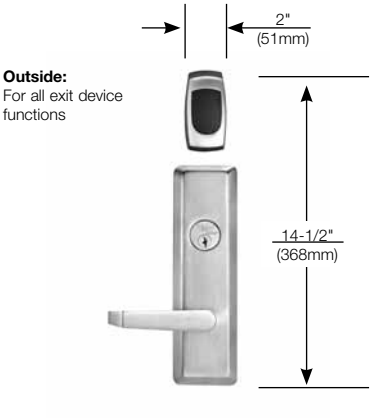
standard

Arcadia AR	Augusta AU	Carmel CR	Jefferson JN	Monroe MO
				
Pacific Beach PB	**Pinehurst PN**	**Virginia VI**	**Hampton HA**	
				

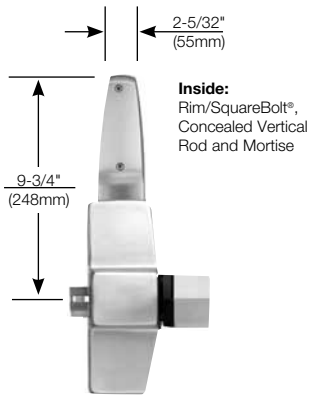
Reflections®

Hudson	TB	UB	TC	UC	TC				
									
Danube	TE	TI							
									
Seine	TG	TO	TJ	TK					
									
Thames	TM	TN	TP	TR	TS	TQ			
									
Victoria	TT	TU	TV	TW	UW	TX	UX	TU	TZ
									

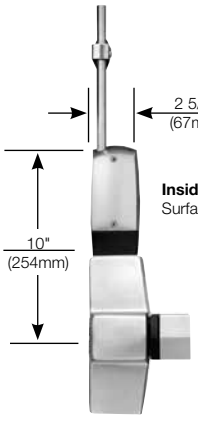
dimensions



Outside:
For all exit device functions



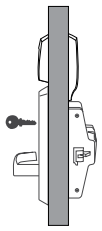
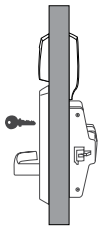
Inside:
Rim/SquareBolt®, Concealed Vertical Rod and Mortise



Inside:
Surface Vertical Rod

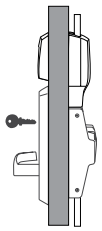
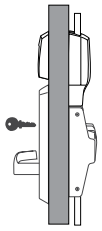
functions

rim & SquareBolt®

Outside Inside	Model Number & Option	Description	Operation
	7100(F) x 692F x SYM 7150(F) x 692F x SYM	Fail Safe With Key Override	• Fail Safe - Power off, unlocks outside trim • Latchbolt retracted by inside push pad at all times • Outside lever locked (freewheeling) except when valid user credential presented • Outside cylinder override allows lever to retract latchbolt • Request to Exit switch indicates push rail movement • External door position switch included to allow for full monitoring
	7100(F) x 693F x SYM 7150(F) x 693F x SYM	Fail Secure With Key Override	• Fail Secure - Power off, trim outside is locked • Latchbolt retracted by inside push pad at all times • Outside lever locked (freewheeling) except when valid user credential presented • Outside cylinder override allows lever to retract latchbolt • Request to Exit switch indicates push rail movement • External door position switch included to allow for full monitoring

Refer to page 21 for ordering example.

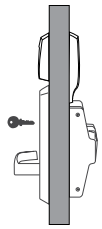
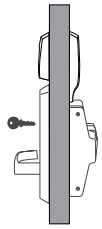
surface vertical rod

Outside Inside	Model Number & Option	Description	Operation
	7110(F) x 694F x SYM 7170(F90) x 694F x SYM	Fail Safe With Key Override	• Fail Safe - Power off, unlocks outside trim • Latchbolt retracted by inside push pad at all times • Outside lever locked (freewheeling) except when valid user credential presented • Outside cylinder override allows lever to retract latchbolt • Request to Exit switch indicates push rail movement • External door position switch included to allow for full monitoring
	7110(F) x 695F x SYM 7170(F90) x 695F x SYM	Fail Secure With Key Override	• Fail Secure - Power off, trim outside is locked • Latchbolt retracted by inside push pad at all times • Outside lever locked (freewheeling) except when valid user credential presented • Outside cylinder override allows lever to retract latchbolt • Request to Exit switch indicates push rail movement • External door position switch included to allow for full monitoring

Refer to page 21 for ordering example.

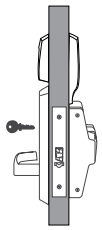
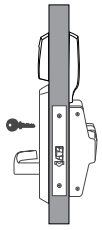
functions

concealed vertical rod

Outside Inside	Model Number & Option	Description	Operation
	7120(F) x 692F x SYM 7160(F90) x 692F x SYM	Fail Safe With Key Override	• Fail Safe - Power off, unlocks outside trim • Latchbolt retracted by inside push pad at all times • Outside lever locked (freewheeling) except when valid user credential presented • Outside cylinder override allows lever to retract latchbolt • Request to Exit switch indicates push rail movement • External door position switch included to allow for full monitoring
	7120(F) x 693F x SYM 7160(F90) x 693F x SYM	Fail Secure With Key Override	• Fail Secure - Power off, trim outside is locked • Latchbolt retracted by inside push pad at all times • Outside lever locked (freewheeling) except when valid user credential presented • Outside cylinder override allows lever to retract latchbolt • Request to Exit switch indicates push rail movement • External door position switch included to allow for full monitoring

Refer to page 21 for ordering example.

mortise

Outside Inside	Model Number & Option	Description	Operation
	7130(F) x SAFE x 696F x SYM	Fail Safe With Key Override	• Fail Safe - Power off, unlocks outside trim • Latchbolt retracted by inside push pad at all times • Outside lever locked (rigid) except when valid user credential presented • Outside cylinder override retracts latchbolt • Request to Exit switch indicates push rail movement • External door position switch included to allow for full monitoring
	7130(F) x SECURE x 696F x SYM	Fail Secure With Key Override	• Fail Secure - Power off, trim outside is locked • Latchbolt retracted by inside push pad at all times • Outside lever locked (rigid) except when valid user credential presented • Outside cylinder override retracts latchbolt • Request to Exit switch indicates push rail movement • External door position switch included to allow for full monitoring

Refer to page 21 for ordering example.

accessories

125 kHz proximity readers

Proximity readers offers the latest technology and security. These readers can be mounted as required by the application [ie: in conjunction with electric latchbolt retraction exit devices] on a wall or door frame. All units can be mounted inside and outdoors with vandal resistance construction.

Model Number	Description	Illustration
HID5365	HID MiniProx® model 5365 • 125 kHz Mullion-mount Prox Reader • Measures 6" long, 1.7" wide and 1" deep • Mounts in junction box (included); 5-16VDC power supply required	
HID5395	HID ThinLine® II model 5395 • 125 kHz Low Profile Prox Reader • Measures 4.7" long, 3" wide and 0.68" deep • Mounts in standard single gang electrical box; 5-16VDC power supply required	
HID5455	HID ProxPro® II model 5455 • 125 kHz New Generation Prox Reader • Measures 5" long, 5" wide and 1" deep • Mounts in standard single gang electrical box; 5-16VDC power supply required	
HID5355	HID ProxPro® model 5355 • 125 kHz Keypad Prox Reader (Keypad is configured for 8-bit data bursts) • Measures 5" long, 5" wide and 1" deep • Mounts in standard single gang electrical box, field adjustable for mounting directly to metal • 10VDC - 28.5VDC power supply required	
HID5375	HID MaxiProx® model 5375 • 125 kHz Long Range Prox Reader (up to 24" prox range depending on prox credential used) • Measures 11.8" long, 11.8" wide and 1" deep • Mounts on non-metallic surfaces; 12 or 24VDC power supply required	
HID6005	HID ProxPoint® Plus model 6005 • 125 kHz Prox Reader • Measures just 3.135" long, 1.72" wide and 0.66" deep • Mounts inconspicuously on metallic surfaces such as mullions; 5-16VDC power supply required	
HID5455A	HID model 5455 AGM00 • Glass-mount kit for use with HID5455 and HID5355 • For applications where reader will mount behind glass	

125 kHz proximity credentials

credential features

- Provides higher level of security when combined with keypad operation
- HID-based proximity cards, fobs or tags
- Allows integration into existing facilities with HID-based technology
- Standard credentials available with 26 bit Wiegand format and Yale assigned site code
- HID credentials available with 26 bit and 33 bit format and customer assigned site code. For a higher level of security, custom cards, fobs or tags with unique site codes are available; consult factory.

HID ProxCard® II

- 26 bit format
- Blank (white) card or Yale logo card
- 25/pkg.
- Dimensions: 2-1/8" x 3-3/8" (54mm x 86mm)
- Thickness: .070" nom. (1.8mm)

Y1326	Yale 26 bit ProxCard II - blank
Y1326-Y	Yale 26 bit ProxCard II - with Yale logo
HID1326	HID 26 bit ProxCard II - blank (customer specified site code)
HID1326-Y	HID 26 bit ProxCard II - with Yale logo (customer specified site code)

HID ISOProx® II

- 26 bit format
- Blank (white) card or Yale logo card
- Blank card can be printed with customer's text and graphics – by others
- 25/pkg.
- Dimensions: 2-1/8" x 3-3/8" (54mm x 86mm)
- Thickness: .033" nom. (.84mm)

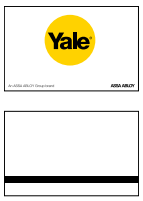
Y1386	Yale 26 bit ISOProx II Card - blank
Y1386-Y	Yale 26 bit ISOProx II Card - with Yale logo
HID1386	HID 26 bit ISOProx II Card - blank (customer specified site code)
HID1386-Y	HID 26 bit ISOProx II Card - with Yale logo (customer specified site code)

HID ProxKey® II Fob

- Easily attaches to key ring, badge clip or lanyard
- Built to withstand harsh operating environments or handling
- 26-bit format
- 10/pkg.
- Dimensions: 1-29/32" x 29/32" x 11/32" (48mm x 23mm x 9mm)

Y1346	Yale 26 bit ProxKey II Fob
HID1346	HID 26 bit ProxKey II Fob (customer specified site code)

HID DuoProx® II



- Multiple technology proximity card offers proximity, magnetic strip and photo identification technologies on a single access control card.
- Minimum order quantity: 100 each
- Dimensions: 2-1/8" x 3-3/8" (54mm x 86mm)
- Thickness: .030" nom. (.76mm)

Y1336	Yale 26 bit DuoProx II Card - blank
Y1336-Y	Yale 26 bit DuoProx II Card - with Yale logo
HID1336	HID 26 bit DuoProx II Card - blank (customer specified site code)

MicroProx® Tag

The MicroProx Tag is a coin-sized (disk shaped) transponder that provides the ability to add HID proximity technology to a device. The MicroProx Tag has an adhesive backing which allows it to be secured to any non-metallic object.

Easily secured to:

- Employee badges
- PDAs
- Magnetic stripe cards

  Note: The MicroProx Tag should be attached to magnetic stripe cards so that contact with the magnetic card reader is avoided.
- Cell phones
- 26 bit format with Yale site code or customer site code
- Sequence numbers marked on each Tag
- Gray color with HID Logo
- 10/pkg.
- Dimensions: 1.285" x 0.070" (32.6mm x 1.78mm)

Y1391	Yale 26 bit MicroProx Tag
HID1391	HID 26 bit MicroProx Tag (customer specified site code)

iCLASS® smart card readers

iCLASS® smart cards and readers make access control more powerful, more versatile, and most important of all, offer enhanced security through encryption and mutual authentication. At the same time, *iCLASS* is user-friendly, delivering the convenience, affordability and reliability of proximity technology.
All Readers configured as follows:

- Wiegand output
- Standard *iCLASS* security (field configurable)
- Keypad: Buffer one key, no parity, 4 bit message (6130 ONLY)

Model Number	Description	Illustration
HID6100	HID R10 Reader 6100 • Mullion-mount Smart Card Reader • Measures 4" long, 1.9" wide and .90" deep • Mounts in single gang electrical box; 12VDC power supply required	
HID6120	HID R40 Reader 6120 • Wall Switch Smart Card Reader • Measures 4.8" long, 3.3" wide and 1.0" deep • Mounts in single gang electrical box; 12VDC power supply required	
HID6130	HID RK40 Keypad Reader 6130 • Wall Switch Keypad Smart Card Reader • Measures 4.8" long, 3.3" wide and 1.1" deep • Mounts in single gang electrical box; 12VDC power supply required	
HID6150	HID R90 Long Range Reader 6150 • Contactless Smart Card Reader – Read Only • Measures 12" long, 12" wide and 1.25" deep • Mounts in single gang electrical box; 12VDC power supply required	

accessories

weatherseal gasketing

- Gaskets provide sealing between escutcheons and door for exterior applications
- Gasketing and conduit recommended for use on non-fire rated exterior applications only
- To order separately, specify part number

Illustration	Part No	Application	Description	Cylindrical	Mortise	Exit Device
	SWG1	Exterior	Gasket between reader and escutcheon (factory installed)	•	•	•
	SWG2	Interior	Gasket between escutcheon and door surface for cylindrical reader lock series	•		
	SWG3	Exterior	Gasket between escutcheon and door surface for both cylindrical reader lock and exit trim	•		•
	SWG4	Interior	Gasket between reader escutcheon and door surface for exit device trim			•
	SWG5	Interior	Gasket between secure side escutcheon and door surface for mortise series		•	
	SWG6	Exterior	Gasket between reader escutcheon and door surface for mortise series		•	

wiegand test unit by Securitron®

Designed for use with Symphony® Wiegand locks, the Wiegand Test Unit is a user-friendly tool providing product demonstration to highlight important features and access control capabilities.

Ideal for troubleshooting, the test unit checks for:

- Proper wiring
- Card reader data integrity
- Lock functionality including lock/unlock, door position and REX

Features:

- 12 or 24VDC solenoid lock voltage selectable
- Test in Fail Safe or Fail Secure locks
- “Learn” mode allows testing of specific cards without programming at the panel level
- Card reader data integrity is validated at test unit

To order, specify part number WT1

electrified accessories

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

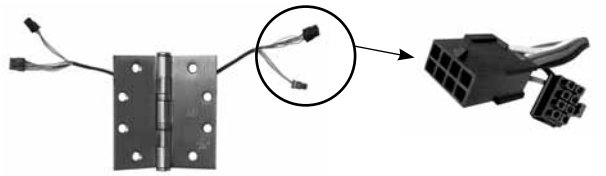
To connect Symphony® Series hardware to the electronic access control system, the following items are required:

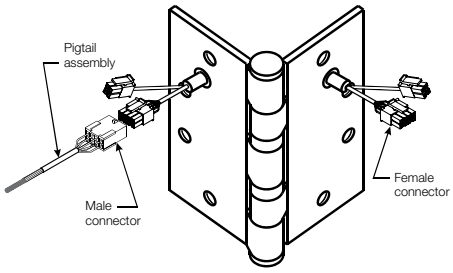
- *Symphony* mortise or cylindrical lock, or exit device and trim
- ASSA ABLOY Door Group pre-wired door, or *ElectroLynx* retrofit cable (order from McKINNEY®)
- Electronic transfer device (*ElectroLynx* electronic transfer hinge or Electrical Power Transfer with standard hinge, from McKINNEY)
- *ElectroLynx* 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* Hinges (or McKINNEY EL-EPT) are recommended for *Symphony* applications.

Hardwiring Made Easy®





Back of 12 wire hinge shown

power supplies

Operation

Power supplies are designed to provide reliable filtered and regulated power for long life to a variety of electrified hardware components.

Product Features

- Individual output circuit breakers
- Regulated and filtered fuse protected outputs
- LEDs monitor zone status (voltage or no voltage)
- Slide switches connect or disconnect load from power (Not available on 1 Amp supplies)
- Internal Back-Up battery charging circuit
- Rugged steel enclosure
- Fire alarm interface

Listings

- UL CLASS 2

BPS-24-1	Power supply 1.0 amp @ 24VDC output
BPS-24-2	Power supply 2 amp @ 24VDC output
BPS-24-4	Power supply 4 amp @ 24VDC output
BPS-12-1	Power supply 1 amp @ 12VDC output
BPS-12-3	Power supply 3 amp @ 12VDC output

door position switch

- Monitors door position remotely
- SPDT concealed switch (3 wire)
- Contacts rated .50 Amp @ 12VDC
- Contacts rated .25 Amp @ 24VDC
- Requires 1" diameter hole
- Black finish only

To order, specify part number DPS1

ordering information

These ordering examples have been created to provide guidance for specifying the proper information that should be included when submitting purchase orders for Symphony® products. All orders for *Symphony* must include the "SYM" option code with the function model number as well as specify the code for the Reader Technology that is required.

mortise ordering example

Sample customer requirements:

1. Augusta lever design - see page 5
2. *Symphony* fail secure mortise lockset with patented cylinder override - see page 7
3. iCLASS® read only 13.56 MHz proximity reader - see page 3
4. Right hand door - see page 4
5. 1-3/4" thick door - see page 4
6. Satin chrome finish - see page 4
7. 24 volts direct current - see page 4
8. MicroShield® antimicrobial coating - see page 3

How to order:

Lever Design	Function	Reader Technology	Cylinder	Hand	Door Thickness	Finish	Lock Solenoid Voltage	Options
AUR	S8891FL x SYM	T003	K100	RH	1-3/4"	626	24VDC	YMS

Note: For this example the items not detailed, such as strike, will be provided as standard. Non-standard item requirements must be detailed and specified. Please also refer to the 8800 series mortise catalog for more information on strike and cylinder options.

cylindrical ordering example

Sample customer requirements:

1. Pacific Beach lever design - see page 9
2. *Symphony* fail safe cylindrical lockset with patented cylinder override - see page 9
3. *iCLASS* read only 13.56 MHz proximity reader - see page 3
4. Left hand door - see page 8
5. 1-3/4" thick door - see page 8
6. Satin nickel finish - see page 8
7. 12 volts direct current - see page 8

How to order:

Lever Design	Function	Reader Technology	Cylinder	Hand	Door Thickness	Finish	Lock Solenoid Voltage
PB	S5490LN x SYM	T003	K402	LH	1-3/4"	619	12VDC

Note: For this example the items not detailed, such as backset, latchbolt or strike, will be provided as standard. Non-standard item requirements must be detailed and specified. Please also refer to the 5400LN series cylindrical catalog for more information on backset, latchbolt, strike and cylinder options.

ordering information

exit device and trim ordering example

Sample customer requirements:

1. Rim SquareBolt® fire rated exit device - see page 13
2. 48" door opening width - see page 11
3. 2" thick door - see page 11
4. Left hand reverse door - see page 11
5. Symphony® fail secure trim with cylinder override - see page 13
6. Reflections® decorative lever TA - see page 12
7. iCLASS® read only 13.56 MHz proximity reader - see page 3
8. Stainless steel finish - see page 11

Yale® exit devices and trims are processed separately. To aid in order processing, the device, trim and cylinder should be detailed as separate line items. These items can be ordered on one line item, but they will be entered to the factory and acknowledged separately.

How to order:

Exit Device				
Device & Function	**Size**	**Hand**	**Door Thickness**	**Finish**
7150F x SYM	-48	LHR	2"	630

Trim				
Lever Design	**Function**	**Reader Technology**	**Door Thickness**	**Finish**
TA	692F x SYM	T003	2"	630

Cylinder	
Model Number	**Finish**
1109	626

Note: For this example the items not detailed will be provided as standard. Non-standard item requirements must be detailed and specified. Please also refer to the 7000 series exit device catalog for more information on strike and cylinder options.

sample specifications

S8800 x SYM
Mortise Lock

Wiegand output integrated card reader mortise locks shall be ANSI/BHMA A156.13 Grade 1 mortise lockset with integrated proximity card reader, request-to-exit switch, door position status switch, and latchbolt monitoring in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle trim, 3/4" deadlocking anti-friction latchbolt, and 1" case-hardened steel deadbolt. Provide cylinders as specified in 2.04 KEYING. Provide all locks with strikes and wrought boxes and proper lip length to protect frame trim. Lock shall be U.L listed and labeled for use on up to 3-hour fire rated openings.

1. Mortise locks shall be open architecture, hard wired platform that supports centralized control of locking units with new or existing Wiegand compatible access control systems. Latchbolt monitor and door position switch act in conjunction to report door-in-frame (DPS) and door latched (door closed and latched) conditions.
2. Mortise locks shall be powered by a 12VDC or 24VDC external power supply and shall be Fail Safe or Fail Secure as required.
3. Mortise locks shall support 12VDC HID 125 kHz proximity formats up to 39 bits, including Corporate 1000, or iCLASS® 13.56 MHz (2K-32K) proximity credentials. Proximity readers shall have a multiple colored LED to indicate card reader activity.
4. Installation shall require only one cable run from the lock to the access control panel without requirements for additional proprietary lock panel interface boards or modules.
5. Mortise locks shall be furnished in the function as required in the hardware sets. Locking and unlocking of the lever shall be solenoid operated completely contained within the lock body. Provide levers to match specified mechanical locks.
6. All locks shall have standardized Molex® connectors to provide easy snap-on installation.
7. The access control platform including software, shall be provided by others. All wiring and cables shall be provided by others.
8. Manufacturer/Model:
    a. Yale Locks & Hardware - S8800 SYM Series

S5400LN x SYM
Cylindrical Lock

Wiegand output integrated card reader cylindrical locks shall be ANSI/BHMA A156.2 Grade 1 cylindrical lockset with integrated proximity card reader and request-to-exit switch in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle trim with 1/2" deadlocking stainless steel latchbolt. Provide cylinders as specified in 2.04 KEYING. Provide all locks with strikes and wrought boxes and proper lip length to protect frame trim. Lock shall be listed and labeled for use on up to 3-hour fire rated openings.

1. Cylindrical locks shall be open architecture, hard wired platform that supports centralized control of locking units with new or existing Wiegand compatible access control systems. Inside lever handle (request-to-exit) signaling standard with door position (open/closed status) monitoring (via separately connected DPS).
2. Cylindrical locks shall be powered by a 12VDC or 24VDC external power supply and shall be Fail Safe or Fail Secure as required.
3. Cylindrical locks shall support 12VDC HID 125 kHz proximity formats up to 39 bits, including Corporate 1000, or iCLASS® 13.56 MHz (2K-32K) proximity credentials. Proximity readers shall have a multiple colored LED to indicate card reader activity.
4. Installation shall require only one cable run from the lock to the access control panel without requirements for additional proprietary lock panel interface boards or modules.
5. Cylindrical locks shall be furnished in the function as required in the hardware sets. Locking and unlocking of the lever shall be solenoid operated completely contained within the lock body. Provide levers to match specified mechanical locks.
6. All locks shall have standardized Molex® connectors to provide easy snap-on installation.
7. The access control platform including software, shall be provided by others. All wiring and cables shall be provided by others.
8. Manufacturer/Model:
    a. Yale Locks & Hardware - S5400LN SYM Series

sample specifications

7100 x SYM
Exit Device

Wiegand output integrated card reader exit hardware shall be ANSI/BHMA A156.3 Grade 1 rim, mortise, and vertical rod exit device hardware with integrated proximity card reader, latchbolt and touchbar monitoring, and request-to-exit signaling, in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle exit trim with 3/4" throw latchbolt. Provide cylinders as specified in 2.04 KEYING. Provide all exit hardware and trim with strikes and wrought boxes and proper lip length to protect frame. Exit hardware shall be U.L listed and labeled for either panic or “fire exit hardware” for use on up to 3-hour fire rated openings.

1. Exit hardware shall be open architecture, hard wired platform that supports centralized control of locking units with new or existing Wiegand compatible access control systems. Inside push bar (request-to-exit) signaling and door position (open/closed status) monitor (via separately connected DPS).
2. Exit hardware shall be powered by a 24VDC external power supply and shall be Fail Safe or Fail Secure as required.
3. Exit hardware shall support 12VDC HID 125 kHz proximity formats up to 39 bits, including Corporate 1000, or iCLASS® 13.56 MHz (2K-32K) proximity credentials. Proximity readers shall have a multiple colored LED to indicate card reader activity.
4. Installation shall require only one cable run from the exit hardware to the access control panel without requirements for additional proprietary lock panel interface boards or modules.
5. Exit hardware shall be furnished in the function and application as required in the hardware sets. Locking and unlocking of the lever shall be solenoid operated completely contained within the lock body. Provide levers to match specified mechanical hardware.
6. All exit hardware shall have standardized Molex® connectors to provide easy snap-on installation.
7. The access control platform including software, shall be provided by others. All wiring and cables shall be provided by others.
8. Manufacturer/Model:
   a. Yale Locks & Hardware - 7100 SYM Series

online literature and templates

For the latest information on Yale Locks & Hardware products, visit our website at www.yalelocks.com.

Click on the “Literature” button to find:

- Catalogs
- Parts manuals
- Templates
- Specifications
- Installation instructions

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- Check availability of Quick-Ship items
- Track your order and confirm delivery
- Receive email notification of template changes
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Yale Locks & Hardware
Address: 225 Episcopal Road, Berlin, CT 06037-4004 USA
Tel: 1-800-438-1951 ● *Fax:* 1-800-338-0965 ● www.yalelocks.com

ASSA ABLOY Door Security Solutions - Canada
Address: 160 Four Valley Drive, Vaughan, Ontario L4K 4T9 Canada
Tel: 1-800-461-3007 • *Fax:* 1-905-738-2478 ● www.assaabloy.ca

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ASSA ABLOY *is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.*

42566-7/16RE