MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2024-389
Item to be Scouted	BABA Door Hardware
Days to be scouted	24
Response Due By	01/04/2025
Description	United States manufacturers of BABAA-compliant Compliant Door Hardware (Hinges, Locks, Exit Devices, Cores, Strikes, Operators, Closers, Stops, Thresholds, Sweeps, etc) for use in an addition and remodel of an existing Hospital located in Iowa.
Notify Requester Immediately	No
State item to be used in	Iowa

Section 2: Technical Information

Type of supplier being sought	Other
Details	Manufacturer/Distributor
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Domestic components in each of the BABAA compliant manufactured products must exceed 55% of the total component cost and be assembled in the United States.
Provide dimensions / size / tolerances / performance specifications for the item	See attached List of Required Door Hardware Products and Basis of Design Catalog Cuts for Door Hardware Products.
List required materials needed to make the product, including materials of product components	See attached List of Required Door Hardware Products and Basis of Design Catalog Cuts for Door Hardware Products.
Are there applicable certification requirements?	Yes
Details	Build America, Buy America Act (BABAA) compliant Must be able to submit BABAA manufactured product self-certification manufactured product letter for each product that details a compliant product.
Are there applicable regulations?	Yes
Details	Yes. See attached Basis of Design Catalog Cuts for Door Hardware Products.
Are there any other stndards, requirements, etc.?	No
NAICS 1	
NAICS 2	
Additional Technical Comments	Basis for design are ASSA ABLOY Door Hardware products. Catalog Cuts for designated ASA ABLOY products are attached. Manufacturers shall specialize and have experience in the manufacturing of the designated components.

Section 4: Business Information

Estimated potential business volume	2 ELECTRIC HINGE 19 MORTISE LOCK 19 PUSHBUTTON LOCK 13 ELECTRIFIED EXIT DEVICE 74 CYLINDER CORES 13 ELECTRIC STRIKE 7 AUTOMATIC OPERATOR 74 CLOSER 281 26 OVERHEAD STOP 20 OVERHEAD STOP 5 MAGLOCK 11 MAG HOLDER 20 EMERGENCY STOP 25 POWER SUPPLY 13 MOTION SENSOR 12 POWER TRANSFER 5 RAIN DRIP 5 WEATHERSTRIP 8 DOOR BOTTM 5 SWEEP 6 THRESHOLD
Estimated target price / unit cost information (if unavailable explain)	TBD - Pricing will be negotiated once BABA compliance is confirmed.
When is it needed by?	Q3 - 2025
Describe packaging requirements	No specific requirement - Arrive undamaged
Where will this item be shipped?	Iowa

Additional Comments

Is there other information you would like to include?	Provide written documentation in response to the Supplier Scouting request of being a current Build America Buy America Act compliant door hardware manufacturer with experience manufacturing the system components meeting the product performance requirements. Information on BABAA compliance requirements can be found at Made in America Office link https://www.madeinamerica.gov/. Agency - USDA Submitted through CBS Contact - Joe Edmondson OK MEP

ACCENTRA
ASSA ABLOY

BHMA CERTIFIED®   UL   ♿

Capacitive Touchscreen

ACCENTRA

Pushbutton keypad option available

Weather Resistant Seal

🔒 **Lockout Mode**

▭ **Low Battery Indication**

9V Battery Power Backup

Standard Mortise Cylinder

Privacy Button

Compatible with a wide range of exit devices, including competitor models (see chart on next page)

EXIT TRIM

HOW TO ORDER

Exit Trim

Quantity	Lever Design	Series/Function	^Technology	Finish	Advanced Functions	Cylinder/ Keyway	Hand[1]	Door Thickness
	AU – Augusta MO – Monroe PB – Pacific Beach	TT613 – Exit trim, key override, pushbutton keypad NTT623 – Exit trim, key override, touchscreen keypad	NR – Keypad only, no radio	605 – Bright brass, clear coated 613E – Dark oxidized bronze - equivalent 626 – Satin chrome plated BSP – Black suede powder coat	DPS[2]	2153 cylinder keyed random standard, see pages 36-38 for additional options	RHR LHR	1-3/4" 2-1/4"

1 Lock is field reversible.
2 Use DPS option code for Advanced Functions. An Auxiliary Door Position Sensor (DPS) must be installed with the lock to enable both Escape Return and Privacy functions. If DPS is not included in the parts string, the Door Position Sensor will not be supplied with the lock. Note that selecting the DPS option code will incur an upcharge. See current price list.

Build Your Order String

Quantity	Lever Design	Series/Function	^Technology	Finish	Advanced Functions	Cylinder/ Keyway	Hand	Door Thickness
Example:	AU	NTT623	NR	626	DPS	2153	RHR	1-3/4"

Compatible Exit Devices

Thanks to its patented adjustable mounting posts, nexTouch® exit trim is compatible with several makes and models of exit devices right out of the box, without the need for separate mounting hardware. Check the chart below to see if yours is a fit.

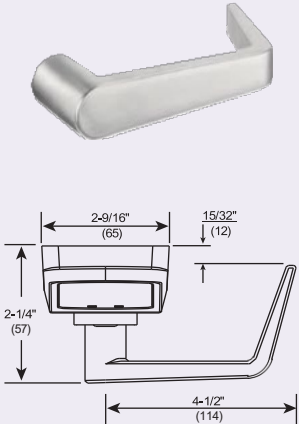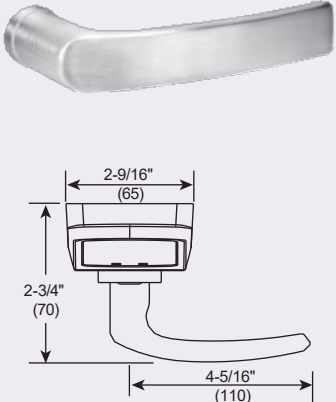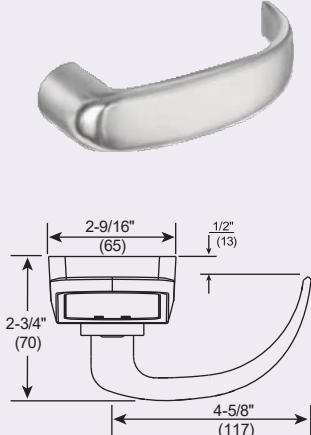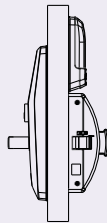| Manufacturer	Model/Series Number*
Arrow	3880, S1250
Corbin Russwin	PED/ED5200, PED/ED5200S
DETEX	10
Dorma	9300
Falcon®	25
SARGENT	PE8800/8800
Von Duprin®	98, 99
ASSA ABLOY ACCENTRA™	1800, 2100/2150, 6100/6150, 7100/7150
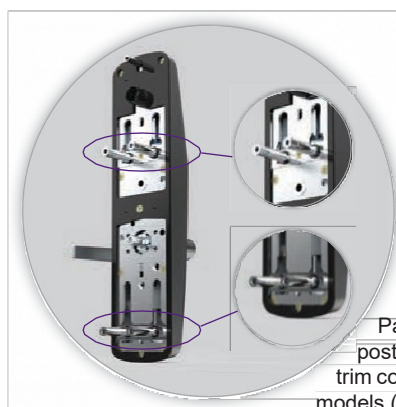
Patented adjustable mounting posts make the nexTouch® exit trim compatible with many exit device models (see chart at left).

*Compatible with rim device only. Please contact Technical Product Support for more information.

^nexTouch® No Radio lock part numbers NTT613 & NTT623 can be upgraded for use with the ASSA ABLOY ACCENTRA™ Cloud platform by installing the ACCENTRA radio module available to all ASSA ABLOY ACCENTRA™ Multi Family Housing Certified Integrators. **These part numbers can NOT be upgraded for use with a Z-Wave compatible system.**

nexTouch® Keypad Locks

EXIT TRIM

TRIM DESIGNS

Exit Trim

AUGUSTA AU*	MONROE MO	PACIFIC BEACH PB*
AU Lever Handle: Cast	**MO Lever Handle:** Cast	**PB Lever Handle:** Cast

2-9/16" (65) 15/32" (12) 2-1/4" (57) 4-1/2" (114)

2-9/16" (65) 2-3/4" (70) 4-5/16" (110)

2-9/16" (65) 1/2" (13) 2-3/4" (70) 4-5/8" (117)

*Meets California State Reference Code for lever return.

EXIT TRIM

FINISHES

Exit Trim

ANSI/BHMA Code Finish Description			
605 **Bright Brass, Clear Coated**	**613E** **Dark Oxidized Satin Bronze - equivalent**	**626** **Satin Chrome Plated**	**BSP** **Black Suede Powder Coat**

FUNCTIONS

Exit Trim

| NTT613 Pushbutton |
| NTT623 Touchscreen |

No Deadbolt With Cylinder Override
- For doors that require mechanical key override.
- Bolt retracted by pushbar on interior and lever on outside except when outside lever is locked.
- Key override unlocks the outside lever only.
- Deadlocking rim bolt.

Outside   Inside

EXIT TRIM

ACCENTRA
ASSA ABLOY

Exit Trim

10-1/2"
(267mm)

2"
(51mm)

7/8"
(22mm)

13"
(330mm)

3-5/16"
(84mm)

3-1/8"
(79mm)

Dimensions given in inches (mm).

 nexTouch® Keypad Locks

80 {
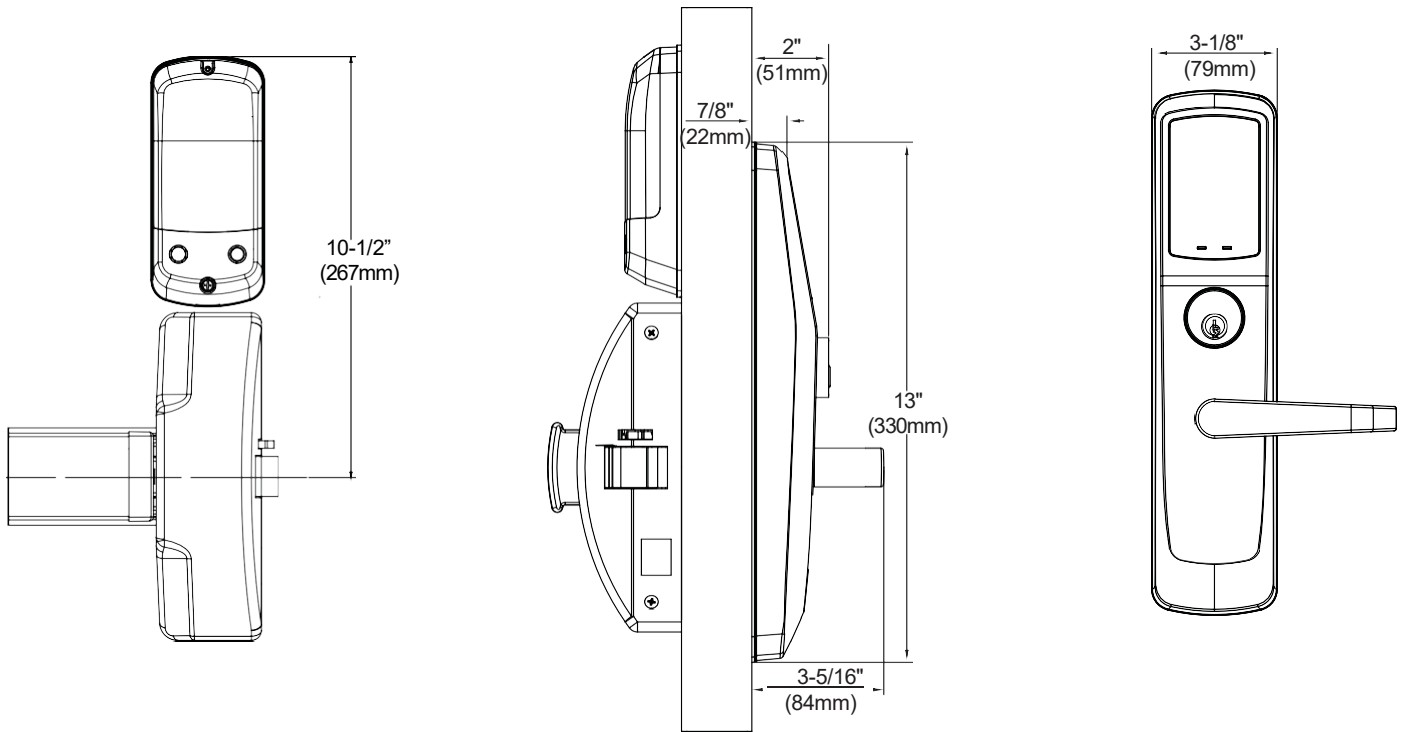
8700 Surface Vertical Rod Exit Device
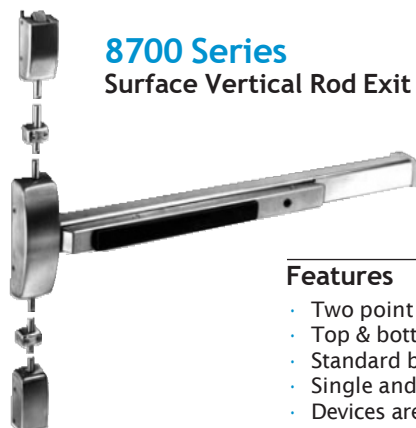
8700 Series
Surface Vertical Rod Exit Device

Features
· Two point latching (top and bottom of the door)
· Top & bottom latchbolt projection adjustable through center case
· Standard bottom latch compatible with latchtrack thresholds (by others)
· Single and double door applications
· Devices are ANSI A156.3 – 2001 Grade 1
· UL Fire and Panic listed
· Rods are 1/2" (13mm) brass, bronze or stainless steel

Note: The 8700 Exit Device can not be used less bottom rod. If less bottom rod is desired, specify NB8700 Series Exit Device.

Specifications for 8700 Series Exit

Door Types	Wood or metal 1-3/4"(44mm) Thick Door; Over 1-3/4" to 2-1/4" specify thickness and order as a 31- Prefix 4-1/2" (114mm) minimum stile with trim and 3-1/2" (44mm) minimum stile without trim.
Door Widths	E Rail - 24" to 32" (61cm to 81cm) No cutting required for 32" door F Rail - 33" to 36" (84cm to 91cm) No cutting required for 36" door J Rail - 37" to 42" (94cm to 107cm) No cutting required for 42" door G Rail - 43" to 48" (110cm to 122cm) No cutting required for 48" door
Strike	649 Top Strike (Panic and Fire Rated) 624 Bottom Strike; 655 Fire Rated Bottom Strike
Dogging Feature	Hex key dogging standard; Cylinder dogging available (16-)
Electric Options	Al- Alarmed Exit Device* PL- SARGuide Photoluminescent Coated Push Rail TL- SARGuide Illuminated Touchpad 53- LX Latchbolt Monitor Switch* 54- Outside Lever Monitoring* 55- RX Push Rail Monitor Switch* 56- ELR Remote Latch Retraction* 57- Delay Egress Exit to be used in conjunction with Electromagnet* 58- Electric Dogging* 59- Electroguard – Self contained Delayed Egress Device*
Mounting Fasteners	Supplied standard with wood and machine screws Available with through-bolts and mortise (sex) nuts
Top & Bottom Bolt	Brass, Stainless steel
Device Centerline from Finished Floor	41" (1041 mm)
Door/Opening Height	Must be specified- 120" (3048 mm) Max Door Opening 84" (2133mm) Standard for TurboShip
Center Case Dimensions	8-3/8" (213mm) x 2-5/8" (67mm)
Projection	Pushbar Neutral – 3" (76 mm) Pushbar Depressed – 2-1/8" (54 mm)
Fire Exit Hardware	See Chart – Page 3

* For details and information, see the Electro-Mechanical Exit Devices, Trims and Accessories Catalog

624 Bottom Strike
· Standard for 8700
· Applied to surface of floor or to a flat threshold
· Black nylon coated

2-1/2" (64mm)
9/16" (14mm) 3/8" (10mm)
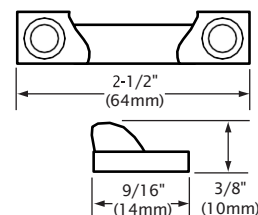
655 Bottom Strike
· Standard for 12-8700
· Stainless steel
· Black nylon coated
· Replaces the 647 Strike

2-3/4" (70mm)
1-13/16" (46mm)
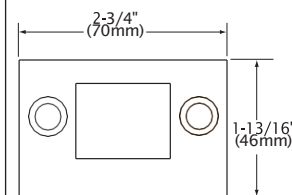
646 Top Strike
· Standard for both Panic & Fire (12-) Hardware
· Surface applied to frame
· Black nylon coated
· Replaces the 629 Strike

1-5/32" (29mm) 3/4" (19mm) 1/4" (6mm)
3-11/16" (94mm)

Inside Lever Assembly for 300 Series Aux Control

Attaches to top rod and engages with 300 Series Auxiliary Control. Packed standard with 306 and 313 Auxiliary Controls
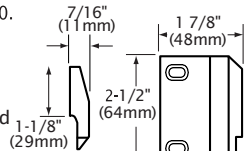
Part # 97-2378

Alternate Strikes for 8700 SVR Devices are 648 & 653 Strikes
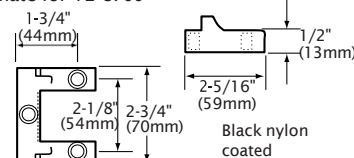
648 Strike
Alternate for 8700.
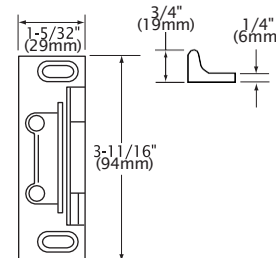For doors having transom panel applications.
Black nylon coated

7/16" (11mm) 1 7/8" (48mm)
2-1/2" (64mm)
1-1/8" (29mm)

653 Strike
Alternate for 12-8700

1-3/4" (44mm) 1/2" (13mm)
2-1/8" (54mm) 2-3/4" (70mm) 2-5/16" (59mm)
Black nylon coated

How to order:

Prefixes	Series	Function	Rail Lgth	Trim	Hand	Finish	Door Width	Door Height	AFF
F1-83-	87	13	F	ETL	RHRB	32D	36"	84"	41"

Trims Available

Exits ordered by ET Trim, specify the 3rd letter as the Lever Design (e.g., ET**L**)

Lever Designs for ET Controls

A, B, E, F, J, L, P, W
Also available with Coastal Series & Studio Collection Levers

ET type x Function

8700 Series: 706, 710, 713, 715, 740, 743, 744, 746, 773 & 774

Freewheeling Trim

The lever rotates when the door is locked preventing excessive force from being applied to the horizontal lever
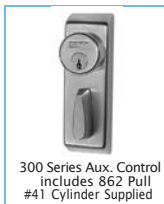
Electrified ET Trim

Solenoid & 54- trims are furnished with an ElectroLynx® 8 Pin Connector. Voltage: 12VDC or 24VDC Regulated. Full wave rectification installed inside the ET Control. Current: .25A at 24VDC or .5A at 12VDC. Operating Temp.: Max. 151˚F (66˚C), Min -31˚F (-35˚C). UL and CUL listed for use on Fire Doors. **Note:** Repeated operation at voltage exceeding +/-

10% is not recommended.

SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info. (1-3/4" Door)	ANSI Type 2 8700 Panic & Fire
06	09	Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	8706 x ET_
10	0	No outside Operation (No Cylinder)	8710
10	02	No outside Operation (No Cylinder) ET Control is used as Pull Only	8710 x ET_
13	08	Key Outside Unlocks/locks Trim #41 Cylinder Supplied	8713 x ET_
15	14	Passage Only (No cylinder)	8715 x ET_
40	02	Freewheeling Trim - No outside Operation (No Cylinder) Dummy Trim	8740 x ET_
43	08	Freewheeling Trim - Key Outside Unlocks/locks Trim #41 Cylinder Supplied	8743 x ET_
46	09	Freewheeling Trim - Key unlocks Trim, Trim retracts latch/ relocks when key is removed #41 Cylinder Supplied	8746 x ET_
73		Electrified ET Trim - Fail Safe Power Off, Unlocks Lever (No Cylinder)	8773 x ET_
74		Electrified ET Trim - Fail Secure Power Off, Locks Lever (No Cylinder)	8774 x ET_

Note: ET trim supplied with 26(625)/26D(626) finish in lieu of 32(629)/32D(630)
Note: AFF means Above Finished Floor, center line of rail Above Finished Floor

Prefixes

8700

10-
10UL-
11-
12-
14-
16-
19-
21-
22-
31-
36-
37-
43-
53-
54-
55-
56-
57-
58-
59-
BC59-
60-
63-
64-
6573-
65737P-
70-
72-
73-
737P-
75-
76-
77-
81-
F1-82-
82-
F1-83-
83-
84-
AL-
SC-
SE-
SG-
TL-
PL-
VA-
VC-
VS-
VCVS-

300 Series Auxiliary Control & 862 Pull

300 Series Aux. Control includes 862 Pull #41 Cylinder Supplied

862 Pull

SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info. (1-3/4" Door)	8700 Panic & Fire
06	12	Key unlocks Turn; Turn retracts latch/ Turn relocks when key is removed #41 Cylinder Supplied	8710 x 306 (includes 862 Pull)
10	02	862 Pull Only (No cylinder)	8710 x 862
13	11	Key Outside Unlocks/locks Turn #41 Cylinder Supplied	8710 x 313 (includes 862 Pull)

Pull & Thumb Piece Trim Section

|	Series	Function	Rail Lgth	Trim	Hand	Finish	Door Width	Door Height	AFF
e.g.,	87	62	J	PTB	RHRB	04	42"	84"	41"

Trim Designations

Series

8700 Panic & Fire

Available Finishes

SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info. (1-3/4" Door)					
10	02	No O/S Operation or Cylinder (Pull Only)	FLL	FLW	MAL	PTB	STS	8710 x Trim Designation
28	15	Passage Only (No cylinder)	FLL	FLW	MAL	PTB	STS	8728 x Trim Designation
62	06	Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #34 Cylinder Supplied	FLL	FLW	MAL	PTB	STS	8762 x Trim Designation

									Finishes	Finishes
									03	605
									04	606
									09	611
									10	612
									10B	613
									10BL	614
									20D	---
									32	629
63	05	Key Outside Unlocks/ locks Trim #34 Cylinder Supplied	FLL	FLW	MAL	PTB	STS	8763 x Trim Designation	32D	630

SARGENT®
ASSA ABLOY

8800 Series
Rim Exit Device
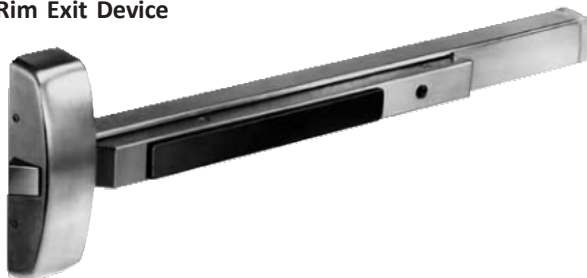
8800 Features

- Designed for standard width stile applications on wood and metal doors
- Also available as an HC8800 or WS8800 for hurricane-resistant applications, see Hurricane-Resistant section of this catalog
- Most functions are non-handed
- Single point rim latching device
- Single door & double door applications with mullions
- Quiet operation and solid security
- Devices are ANSI A156.3 – 2008 Grade 1
- UL Fire and Panic listed

Specifications — 8800 Series Rim Exit Device

Door Types	Wood or metal 1-3/4" (44 mm) minimum thickness. For doors over 1-3/4" to 2-1/4" thick, specify thickness and order as 31- Option
Rail sizes as determined by door width	Rails are available in 4 sizes, use door width to determine size needed. Rails will be factory cut to size, if door width is supplied • E Rail for 24" to 32" door widths, No cutting required for 32" door • F Rail for 33" to 36" door widths, No cutting required for 36" door • J Rail for 37" to 42" door widths, No cutting required for 42" door • G Rail for 43" to 48" door widths, No cutting required for 48" door
Strike	649 Standard Black Nylon Coated
Optional Strikes	642, 644 and 613
Dogging Feature	Hex key dogging standard on non fired rated devices; specify 16- for cylinder dogging (#41 cylinder supplied)
Electric Options	AL- Alarm BT- Beacon™ PL- SARGuide Photoluminescent Coated TL- SARGuide Illuminated Touchpad 53- LX Latchbolt Monitor 54- Outside Lever Monitoring 55- Request-to-Exit Signal - Rail Monitoring 56- ELR Remote Latch Retractio 57- Delay Egress & Electromagnets 58- Electric Dogging 59- Electroguard – Self Contained Delayed Egress
Mounting Fasteners	Supplied standard with wood and machine screws Available with through-bolts and mortise (sex) nuts
Latch Bolt	Stainless steel, 3/4" (19mm) throw
Device Centerline from Finished Floor	41" (1041 mm) for Standard Applications
Center Case Dimensions	8-3/8" (213mm) x 2-5/8" (67mm)
Projection	Pushbar Neutral – 3" (76 mm) Pushbar Depressed – 2-1/8" (54 mm)
Fire Exit Hardware	See Chart – Page 3

649 Strike
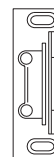
- Supplied standard for panic & fire rated openings
- Surface applied
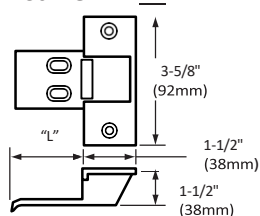- Black nylon coated

688 Trim Retrofit Kit

- 688 Trim Retrofit kit allows an 8800* Series rim exit with an ET to replace Von Duprin's 98/99 Series exit with trim with minimal door prep.
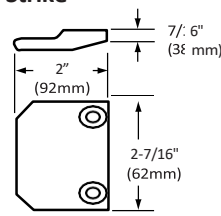- * Except for 16 function
- Order as: 688 Kit

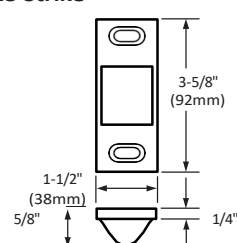### Alternate Strikes For 8800 Rim Devices

642 Strike

3-5/8" (92mm)

"L"

1-1/2" (38mm)

1-1/2" (38mm)

- Mortised. Dimension "L" equals door thickness plus 1/2" (13mm). Black nylon coated on lip only.

644 Strike

7/16" (38 mm)

2" (92mm)

2-7/16" (62mm)

613 Strike

3-5/8" (92mm)

1-1/2" (38mm)

5/8"

1/4"

ock.com

- Surface applied. For use on pairs of doors without mullion. Ductile Iron.

6 1-

800-727-5477

ASSA ABLOY, the global leader in door opening solutions

www.sargentl

Black nylon coated.

(16mm) _____ (6mm)

- Half mortised. Black
  nylon coated.

SARGENT

ASSA ABLOY

Options	Series	Function	Rail Lgth	Trim	Hand	Outside Finish	Inside Finish	Door Width
F1-83-56	88	13	F	ETL	RHR	26D	32D	36"

700 Series ET Trim

Exits with ET Trim, specify lever design after the ET designation (e.g., ETL)

Lever Designs for ET Controls

A, B, E, F, J, L, P, W

Also available with Coastal Series & Studio Collection Levers

**ET Designation with Suffix
(Used to order ET without device)**

8800 Series: 704, 706-8, 710, 713-8, 715-8, 716, 740, 743-8, 744, 746-8, 773-8, 774-8, 775-8 & 776-8

Freewheeling Trim

The lever rotates when the door is locked preventing excessive force from being applied to the horizontal lever

Electrified ET Trim

Voltage must be specified for the following functions: 73, 74, 75 and 76. Specify: 12VDC or 24VDC

SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info (1-3/4" Door)	ANSI Type 1 8800 Panic & Fire
04	0	Night Latch Key Retracts Latch #34 Cylinder Supplied	8804 x ET_
06	09	#34 Cylinder Supplied Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	8806 x ET_
10	01	No outside operation (No Cylinder)	8810
10	02	No outside operation (No Cylinder) ET Control is used as Pull Only	8810 x ET_
13	08	Key Outside Unlocks/locks Trim #41 Cylinder Supplied	8813 x ET_
	4	Passage Only (No cylinder)	8815 x ET_
16	10	Key Outside Retracts Latch; Key Inside Unlocks/Locks O/S Trim O/S #34 Cylinder & I/S #44 Cylinder Supplied	8816 x ET_
40	02	Freewheeling Trim - No outside operation (No Cylinder) Dummy Trim	8840 x ET_
43	08	Freewheeling Trim - Key Outside Unlocks/locks Trim #41 Cylinder Supplied	8843 x ET_
44	03	Freewheeling Trim - Key Retracts Latch #34 Cylinder Supplied	8844 x ET_
46	09	Freewheeling Trim - Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	8846 x ET_
7		Electrified ET Trim - Fail Safe Power Off, Unlocks Lever (No Cylinder)	8873 x ET_
74		Electrified ET Trim - Fail Secure Power Off, Locks Lever (No Cylinder)	8874 x ET_
75		Electrified ET Trim - Fail Safe Power Off, Unlocks Lever, Key Retracts Latch #34 Cylinder Supplied	8875 x ET_
76		Electrified ET Trim - Fail Secure Power Off, Locks Lever, Key Retracts Latch #34 Cylinder Supplied	8876 x ET_

Note: Exit devices are available in all standard finishes, except 14, 15, 26 & 26D. With these finishes, exit devices are supplied in 32 or 32D to match accordingly. 26 or 26D is automatically supplied when 32 or 32D is specified. For nickel finishes, specify 14/32 or 15/32D to receive nickel finished trims and stainless exit devices.

Options
8800

Mechanical Options:
12-
16-
19-
31-
36-
37-
43-
53-
54-
55-
56-
56-HK-
57-
58-
59-
BC-59-
76-
85-
86-
87-
AL-
BT-
CPC-
GL-
LD-
PL-
SG-
TB-
TL-

Cylinder Options:
10-
10-21-
10UL-
10-63-
11-
11-21-
11-60-
11-63-
11-64-
11-70-7P-
11-72-7P-
11-73-7P-
11-65-73-7P-
21-
22-
51-
52-
60-
63-
64-
70-
72-
73-
65-73-
65-73-7P-
73-7P-
81-
82-
F1-82-
83-
F1-83-
84-
BR-
LC-
*SC-
*SE-

* Options are not available with 8816

Pull & Thumb Piece Trim Section

Trim Designations
- Use three letter designations (Ex "PTB") when ordering the Exit Device with trim
- Use the six digit designation (Ex "866-MAL") when ordering trim without an Exit Device, always specify finish

Series

8800 Panic & Fire

Available Finishes

SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info. (1-3/4" Door)						Series
04	03	Night Latch Key Retracts Latch #34 Cylinder Supplied	814-FSL*	814-FSW*	814-MSL*	814-PSB*	814-STS	862 Pull	8804 x Trim Designation
10	02	No O/S Operation or Cylinder (Pull Only)	810-FLL	810-FLW	810-MAL	810-PTB	810-STS	862 Pull	8810 x Trim Designation
28	15	Passage Only (No cylinder)	828-FLL	828-FLW	828-MAL	828-PTB	828-STS	N/A	8828 x Trim Designation

									SARGENT Finishes	BHMA Finishes
									03	605
									04	606
									09	611
									10	612
									10B	613
63	05	Key Outside Unlocks/ Locks Trim #34 Cylinder Supplied	866-FLL	866-FLW	866-MAL	866-PTB	866-STS	N/A	8863 x Trim Designation	10BL	614
									14	618
									15	619
									20D	624
66	07	Key Outside Retracts Latch; Key Inside Unlocks/Locks O/S Trim O/S #34 & I/S #44	866-FLL	866-FLW	866-MAL	866-PTB	866-STS	N/A	8866 x Trim Designation	26	625
									26D	626
									32	629
									32D	630

* FSL, FSW, MSL and PSB trims are used with (HC-& 12-) 8888 and 8804 only and are the same as FLL, FLW, MAL and PTB pulls except for cylinder hole located 3/8" (9mm) lower.

Note: Thumb piece trims for 63 and 66 function devices are identical and are identified as 66 function when trim is ordered separately.

Note: FLW & FSW trims are not available in 32(629) or 32D(630)

& NB-MD8600 Concealed Vertical Rod Exit Device for Metal Doors

80 Series

SARGENT®
ASSA ABLOY

MD8600 Series
Concealed Vertical Rod Exit Device for Metal Doors

Features

- Designed for standard width stile applications on hollow metal doors
- Concealed rods for security and aesthetics
- Single and double door applications
- Specify NB- for less bottom rod
- Devices are ANSI A156.3 – 2008 Grade 1
- The standard MD8600 is UL Certified to ZHEM.R21744 and FL2998-R2
- UL Fire and Panic listed

Specifications for MD8600 & NB-MD8600 Series Exit

Door Types	Metal Doors, 1-3/4" (44mm) minimum thickness. For doors over 1-3/4" to 2-1/4" thick, specify thickness and order as 31-Option 4-1/2" (114mm) minimum stile width
Rail sizes as determined by door width	Rails are available in 4 sizes, use door width to determine size needed. Rails will be factory cut to size, if door width is supplied • E Rail for 24" to 32" door widths, No cutting required for 32" door • F Rail for 33" to 36" door widths, No cutting required for 36" door • J Rail for 37" to 42" door widths, No cutting required for 42" door • G Rail for 43" to 48" door widths, No cutting required for 48" door
Strike	650 Top Strike & 606 Bottom Strike (Panic and Fire Rated)
Dogging Feature	Hex key dogging standard on non fired rated devices; specify 16- for cylinder dogging (#41 cylinder supplied)
Electric Options	AL- Alarm BT- Beacon™ PL- SARGuide Photoluminescent Coated TL- SARGuide Illuminated Touchpad 53- LX Latchbolt Monitor 54- Outside Lever Monitoring 55- Request-to-Exit Signal - Rail Monitoring 56- ELR Remote Latch Retraction 57- Delay Egress & Electromagnets 58- Electric Dogging 59- Electroguard – Self Contained Delayed Egress (NB- Excluded)
Mounting Fasteners	Supplied standard with machine screws
Top Bolt	Stainless steel
Device Centerline from Finished Floor	41" (1041mm) for Standard Applications 38" (965mm) for elementary schools and to meet local accessibility standards when a 100 Series Auxiliary Control is used
Door/Opening Height	**Must be specified** - 120" (3048mm) Max Door Opening
Center Case Dimensions	8-3/8" (213mm) x 2-5/8" (67mm)
Projection	Pushbar Neutral – 3" (76mm) Pushbar Depressed – 2-1/8" (54mm)
Fire Exit Hardware	See Chart – Page 3

Note: MD8600 & 12-MD8600 can be used as NB- Device by simply not installing the bottom rod/bolt.

Note: 12-NB Applications require thermal pin. Thermal Pin supplied when ordered as a 12-NB Device

SARGENT Manufacturing offers a wide variety of products that meet building codes requiring hurricane-resistant certification. SARGENT products are independently tested to meet the requirements of the building codes as specified by the Florida Building Code, Miami Dade Code Requirements and in the International Building Code. Listed below are certifications and the standards met by the MD8600 Series exit devices, see Hurricane-Resistant Section of this catalog for additional devices listed and certified.

UL Listed per:

- ANSI/SDI-BHMA A250.13
- ANSI/ASTM E330-2002
- ANSI/ASTM E1886-2005
- ASTM E1996-2009

UL Certification Directory ZHEM. R21744 Latching Hardware

MD8600	Ratings
Door Size	8'-0" x 8'-8"
Design Pressure	+86/-86 psf
Impact	350 ft-lbs
Latch Strength	688 lbf

MD8600 is tested to 70 PSF per ASTM E330, E1886, E1996 and TAS 201, 202, 203; devices have been tested to 86 PSF per ANSI A250.13.

Listed on Florida Building Code Website for Hurricane-Resistance:

FL2998-R2

MD8600	
Approved for use in HVHZ:	Yes
Approved for use outside HVHZ:	Yes
Impact Resistant:	Yes
Design Pressure:	+70/-70 psf

100 Series Aux Control

- Available as an 06 or 13 function
- Supplied with a SARGENT #41 Mortise Cylinder
- Can be used with any SARGENT Mortise Key System

650 Top Strike

1-1/8" (29mm)
2-1/2" (64mm)

- For application in hollow metal frames

606 Bottom Strike

1-1/16" (27mm)
2-5/8" (67mm)
5/32" (4mm)

- Stainless steel

www.sargentlock.com

- Furnished with expansion shields
- Mortised into floor
- Stainless steel

For use with outswing, singles & pairs of hollow metal doors & frames as listed with UL

ASSA ABLOY, the global leader in door opening solutions

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How to order:	Options	Series	Function	Rail Lgth	Trim	Hand	Outside Finish	Inside Finish	Door Width	Door Height	AFF	... tion
	57-NB-	MD86	13	F	ETL	RHR	03	03	36"	84"	41"	

					MD8600

700 Series ET Trim

Exits with ET Trim, specify lever design after the ET designation (e.g., ETL)

SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info (1-3/4" Door)	ANSI Type 8 MD8600 Panic & Fire
06	09	Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	MD8606 x ET_
0	01	No outside operation (No Cylinder)**	MD8610
10	02	No outside operation (No Cylinder)** ET Control is used as Pull Only	MD8610 x ET_
13	08	Key Outside Unlocks/locks Trim #41 Cylinder Supplied	MD8613 x
15	14	Passage Only (No cylinder)	MD8615 x ET_
40	02	Freewheeling Trim - No outside Operation (No Cylinder)** Dummy Trim	MD8640 x ET_
43	08	Freewheeling Trim - Key Outside Unlocks/locks Trim #41 Cylinder Supplied	MD8643 x ET_
46	09	Freewheeling Trim - Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	MD8646 x ET_
73		Electrified ET Trim - Fail Safe Power Off, Unlocks Lever (No Cylinder)**	MD8673 x ET_
7		Electrified ET Trim - Fail Secure Power Off, Locks Lever (No Cylinder)**	MD8674 x ET_

Lever Designs for ET Controls

A, B, E, F, J, L, P, W
Also available with Coastal Series & Studio Collection Levers

ET Designation with Suffix (Used to order ET without device)

MD8600 & NB-MD8600 Series: 706-4, 710-4, 713-4, 715-4, 740-4, 743-4, 746-4, 773-4, & 774-4

Freewheeling Trim

The lever rotates when the door is locked preventing excessive force from being applied to the horizontal lever

Electrified ET Trim

Voltage must be specified for the following functions: 73 and 74. Specify: 12VDC or 24VDC

Note: Exit devices are available in all standard finishes, except 14, 15, 26 & 26D. With these finishes, exit devices are supplied in 32 or 32D to match accordingly. 26 or 26D is automatically supplied when 32 or 32D is specified. For nickel finishes, specify 14/32 or 15/32D to receive nickel finished trims and stainless exit devices.
Note: AFF means Above Finished Floor, center line of rail Above Finished Floor
** Cylinder Override is available with a 106 Aux Control
Example Order: MD8673F 12V x ETMG x 106 x RHR x 32D x 36"w x 84"h

100 Series Auxiliary Control++ & 862 Pull

SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info (1-3/4" Door)	MD8600 Panic & Fire
06	12	Key unlocks Turn, Turn retracts latch/ Turn relocks when key is removed #41 Cylinder Supplied	MD8610 x 106
10	02	862 Pull Only (Optional Pulls: 863 & 864)	MD8610 x 862 Pull
13	11	Key Outside Unlocks/locks Turn #41 Cylinder Supplied	MD8610 x 113

100 Series Aux. Control

862 Pull

Note: When ordering MD8600/NB-MD8600 Series Exit Device x 100 Series Aux. Control, specify 10 Function for the exit.
Example: MD8610F x 106 x RHR x 32D x 42" x 90"

++ Note: Exit Devices must be mounted 38" AFF when used with a 100 Series Auxiliary Controls to meet ICC/ANSI A117.1-2003 Accessible & Usable Buildings and Facilities Code

Mechanical Options:
12-
16-
19-
31-
36-
37-
43-
53-
54-
55-
56-
56-HK-
57-
58-
59-
BC-59-
76-
85-
86-
87-
AL-
BT-
CPC-
LD-
NB-
PL-
SG-
TL-

Cylinder Options:
10-
10-21-
10UL-
10-63-
11-
11-21-
11-60-
11-63-
11-64-
11-70-7P-
11-72-7P-
11-73-7P-
11-65-73-7P-
21-
22-
51-
52-
60-
63-
64-
70-
72-
73-
65-73-
65-73-7P-
73-7P-
81-
82-
F1-82-
83-
F1-83-
84-
BR-
LC-
SC-
SE-

Available Finishes

SARGENT Finishes	BHMA Finishes
03	605
04	606
09	611
10	612
10B	613
10BL	614
14	618
15	619
20D	624
26	625
26D	626
32	629
32D	630

SARGENT®

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WD8600 Series

**Concealed Vertical Rod Exit Device
for Wood Doors**

Features

- Designed for standard width stile applications on wood doors
- Concealed rods offer security
- Single and double door applications
- Specify NB- for less bottom rod
- Devices are ANSI A156.3 – 2008 Grade 1
- UL Fire and Panic listed

## Specifications for WD8600 & NB-WD8600 Series Exit

Door Types	Wood, 1-3/4" (44mm) minimum thickness. For doors over 1-3/4" to 2-1/4" thick, specify thickness and order as 31-Option 4-1/2" (114mm) minimum stile width
Rail sizes as determined by door width	Rails are available in 4 sizes, use door width to determine size needed. Rails will be factory cut to size, if door width is supplied • E Rail for 24" to 32" door widths, No cutting required for 32" door • F Rail for 33" to 36" door widths, No cutting required for 36" door • J Rail for 37" to 42" door widths, No cutting required for 42" door • G Rail for 43" to 48" door widths, No cutting required for 48" door
Strike	650 Top Strike & 606 Bottom Strike (Panic and Fire Rated)
Dogging Feature	Hex key dogging standard on non fired rated devices; specify 16- for cylinder dogging (#41 cylinder supplied)
Electric Options	AL- Alarm BT- Beacon™ PL- SARGuide Photoluminescent Coated TL- SARGuide Illuminated Touchpad 53- LX Latchbolt Monitor 54- Outside Lever Monitoring 55- Request-to-Exit Signal - Rail Monitoring 56- ELR Remote Latch Retraction 57- Delay Egress & Electromagnets 58- Electric Dogging 59- Electromagnet Self-Contained Delayed Egress (NB- Excluded)
Mounting Fasteners	Supplied standard with wood screws
Top Bolt	Stainless steel
Device Centerline from Finished Floor	41" (1041mm) for Standard Applications 38" (965mm) for elementary schools and to meet local accessibility standards when a 100 Series Auxiliary Control is used
Door/Opening Height	**Must be specified** - 108" (2743mm) Max Door Opening
Center Case Dimensions	8-3/8" (213mm) x 2-5/8" (67mm)
Projection	Pushbar Neutral – 3" (76mm) Pushbar Depressed – 2-1/8" (54mm)
Fire Exit Hardware	See Chart – Page 3

Note: WD8600 & 12-WD8600 can be used as NB- Device by simply not installing the bottom rod/bolt.
Note: 12-NB applications require thermal pin. Thermal pin supplied when ordered as a 12-NB device

100 Series Aux Control

- Available as an 06 or 13 function
- Supplied with a SARGENT #41 Mortise Cylinder
- Can be used with any SARGENT Mortise Key System

650 Top Strike

1-1/8" (29mm)

2-1/2" (64mm)
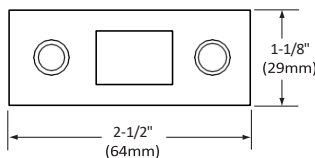
- For application in hollow metal frames
- Stainless steel

606 Bottom Strike

1-1/16" (27mm)

2-5/8" (67mm)

5/32" (4mm)

- Furnished with expansion shields
- Mortised into floor
- Stainless steel

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How to order:	Options	Series	Function	Rail Lgth	Trim	Hand	Outside Finish	Inside Finish	Door Width	Door Height AFF	Option
	58-NB-	WD86	13	F	ETL	RHR	26D	32D	36"	84" 41"	

WD8600

700 Series ET Trim

Exits with ET Trim, specify lever design after the ET designation (e.g., ETL)

Lever Designs for ET Controls

A, B, E, F, J, L, P, W
Also available with Coastal Series & Studio Collection Levers

ET Designation with Suffix
(Used to order ET without device)

MD8600 & NB-MD8600 Series:
706-4, 710-4, 713-4, 715-4, 740-4, 743-4, 746-4, 773-4, & 774-4

Freewheeling Trim

The lever rotates when the door is locked preventing excessive force from being applied to the horizontal lever

Electrified ET Trim

Voltage must be specified for the following functions: 73 and 74.
Specify: 12VDC or 24VDC

SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info (1-3/4" Door)	ANSI Type 7 WD8600 Panic & Fire
06	09	Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	WD8606 x ET_
10	01	No outside operation (No Cylinder)**	WD8610
10	02	No outside operation (No Cylinder)** ET Control is used as Pull Only	WD8610 x ET_
13		Key Outside Unlocks/locks Trim #41 Cylinder Supplied	WD8613 x ET_
15	14	Passage Only (No cylinder)	WD8615 x ET_
40	02	Freewheeling Trim - No outside operation (No Cylinder)** Dummy Trim	WD8640 x ET_
43	08	Freewheeling Trim - Key Outside Unlocks/locks Trim #41 Cylinder Supplied	WD8643 x ET_
46	09	Freewheeling Trim - Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	WD8646 x ET_
73		Electrified ET Trim - Fail Safe Power Off, Unlocks Lever (No Cylinder)**	WD8673 x ET_
74		Electrified ET Trim - Fail Secure Power Off, Locks Lever (No Cylinder)**	WD8674 x ET_

Note: Exit devices are available in all standard finishes, except 14, 15, 26 & 26D. With these finishes, exit devices are supplied in 32 or 32D to match accordingly. 26 or 26D is automatically supplied when 32 or 32D is specified. For nickel finishes, specify 14/32 or 15/32D to receive nickel finished trims and stainless exit devices.
Note: AFF means Above Finished Floor, center line of rail Above Finished Floor
** Cylinder Override is available with a 106 Aux Control
Example Order: WD8673F 12V x ETMG x 106 x RHR x 32D x 36"w x 84"h

100 Series Auxiliary Control++ & 862 Pull

100 Series Aux. Control

862 Pull

SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info (1-3/4" Door)	WD8600 Panic & Fire
06	12	Key unlocks Turn, Turn retracts latch/ Turn relocks when key is removed #41 Cylinder Supplied	WD8610 x 106
10	02	862 Pull Only (Optional Pulls: 863 & 864)	WD8610 x 862 Pull
13	11	Key Outside Unlocks/locks Turn #41 Cylinder Supplied	WD8610 x 113

Note: When ordering WD8600/NB-WD8600 Series Exit Device x 100 Series Aux. Control, specify 10 Function for the exit.
Example: WD8610F x 106 x RHR x 32D x 42" x 90"

++ Note: Exit Devices must be mounted 38" AFF when used with a 300 Series Auxiliary Controls to meet ICC/ANSI A117.1-2003 Accessible & Usable Buildings and Facilities Code

Mechanical Options:
12-
16-
19-
31-
36-
37-
43-
53-
54-
55-
56-
56-HK-
57-
58-
59-
BC-59-
76-
85-
86-
87-
AL-
BT-
CPC-
LD-
NB-
PL-
SG-
TL-

Cylinder Options:
10-
10-21-
10UL-
10-63-
11-
11-21-
11-60-
11-63-
11-64-
11-70-7P-
11-72-7P-
11-73-7P-
11-65-73-7P-
21-
22-
51-
52-
60-
63-
64-
70-
72-
73-
65-73-
65-73-7P-
73-7P-
81-
82-
F1-82-
83-
F1-83-
84-
BR-
LC-
SC-
SE-

Available Finishes

SARGENT Finishes	BHMA Finishes
03	605
04	606
09	611
10	612
10B	613
10BL	614
14	618
15	619
20D	624
26	625
26D	626
32	629
32D	630

Electric Latch Retraction Option (56-)

80 Series

SARGENT

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SARGENT's Electric Latch Retraction exit device is the perfect choice for high traffic egress doors that require access control. This non-handed exit device rail is durable and easy to install. It utilizes a latch retraction motor rather than a solenoid, ensuring quiet operation ideal for locations such as conference rooms, theaters and libraries. Once retracted, the door functions in a push/pull manner.

The 56- exit device can be dogged for momentary ingress and egress and is commonly used in conjunction with an automatic door operator. The device can be dogged continuously on fire-rated devices that are tied into the building's fire detection system.
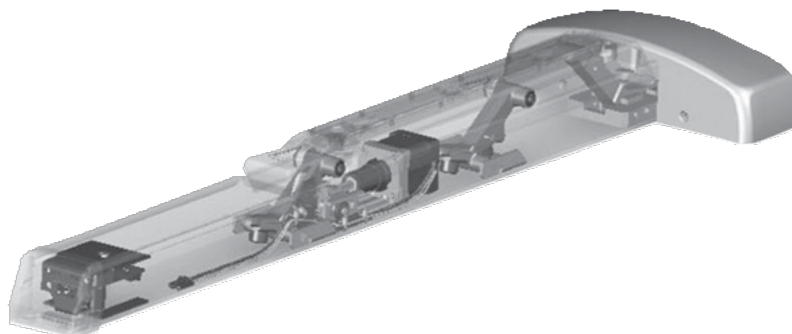
56- Electric Latch Retraction Features

- 5 year warranty
- Patent pending and/or patent www.assaabloydss.com/patents
- Field serviceable -modular design
- Motor driven latch retraction for smooth, precise operation
- Amount of rail retraction is automatically controlled by the 56- circuitry; System actively monitors its position and adjusts itself
- Digital retraction timer (0-20 seconds; factory setting is 5 seconds)
- Non-contact Request-to-Exit (55-) switch available
- Retrofit kits available - see next page
- Standard electric hinge - no special power transfer required
- Can be used for continuous and intermittent use
- UL Listed for Class II Circuitry
- Power Requirements: 24VDC regulated/filtered power supply (3500 Series)
- Current draw: .6A during retraction and .25A maintained in dogged hold position
- Requires 1A at 24VDC regulated/filtered power supply
- Available for all 80 Series exit devices (except FM8700)
- See page 75 for compatible options
- Minimum Door Widths:
  - Wide Stile Door 28"
  - Narrow Stile Door 28"
- See McKINNEY's Transfer Device Solutions Catalog for QC Hinge and cable requirements
- Order as a 56- option
  (e.g., 56-HK-8913F x ETMF x 32D x 36")

Note: HK- and 16- are not available for Fire Rated Doors
Note: The 56- Option is not supplied with Manual Dogging (Hex Key or Cylinder Dogging) unless specified

Optional Accessories

- 3500 Series Power Supply
- 4370 Keyswitch
- 4291/4292 Keypad
- 3287 Door Status Switch
- 881 Monitor Strike
- 4341 Push Button Switch (momentary)
- Norton Automatic Door Operator
- Norton ADA Push Switch or Wave to Open Switch

Experience a safer
and more open world

Alarm Option (AL-)

Request-to-Exit Option (55-)
80 Series

SARGENT®
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AL- Alarm Option

SARGENT's AL-80 Series Exit Devices are designed for areas requiring a stand-alone alarm on outward swinging doors. This device has an integrated alarm in the push rail to discourage the unauthorized use of emergency exit doors. The alarm inside the rail sounds immediately upon exit. The AL-80 Series is ideal for rear exterior doors, doors leading to a rooftop, or anywhere security is a concern.

Features

- Microprocessor based alarm board
- When armed, alarm sounds immediately upon rail depression
- All exit devices have tamper resistant latching (Guarded Latch)
- Battery powered – 9VDC
- 103 Db @ 8 ft pulsating horn
- Flashing red LED provides visible violation indication, reset by key only
- Low battery alert

- Field selectable continuous alarm option-3267 Power Supply and 546 Harness recommended
- Automatic re-arming option
- Supplied with a #41 (1-1/8") with standard off set cam
- UL Listed and cUL Listed
- UL Listed to Canadian Safety Standards
- Rail Monitoring & Guarded Latch are standard internal features

- Available with all 80 Devices, except LP, LR, LS8600, FM8700,WS & HC8800 Devices
- Minimum Door Widths:
  - Wide Stile Door : E-n/a; F-36" only; J-42"-39"; G-48"-43"
  - Narrow Stile Door: E-32" only; f-36"-34"; J-42"-37"; G-48"-43"
- See page 75 for compatible options
- See McKINNEY's Transfer Device Solutions Catalog for QC Hinge and cable requirements (if hard wired)
- Order as an AL- option (e.g., AL-8916F x ETJ x 32D x 36" Door)

545 Alarm Retrofit Kits

Alarm retrofit kits available for the following 80 Series devices - 8300, MD8600, WD8600, GL-8800, and 8900 only. (GL-8800: Rim device with guarded latch)

Kit #	Device Style	Pivot to Pivot	Rail Size
545-1	Wide	11-1/4"	F
545-2	Narrow	11-1/4"	F
		8-1/2"	E
545-3	Wide	20-1/2"	G
545-4	Narrow	20-1/2"	G
545-6	Narrow	14"	J
545-7	Wide	14"	J

546 Wiring Harness

Harness allows for remote control of the alarmed exit device
- Remote Alarm Reset–reset from remote location
- External Inhibit – shunts alarm from remote location
- Remote Power – allows unit to be wired to a 9VDC power supply (3267)
- Remote Monitor – allows unit to be wired to remote console
- Order as:
  - 546 - Wiring Harness (For AL- option) - Mfg. prior to 7/1/04
  - 546-F - Wiring Harness for F-Size Rails - Mfg. after 7/1/04
  - 546-G - Wiring Harness for G-Size Rails - Mfg. after 7/1/04
  - 546-J - Wiring Harness for J-Size Rails - Mfg. after 7/1/04

55- Request-to-Exit Option

SARGENT Request-to-Exit Signal Switch option for exit devices provides push rail monitoring for a variety of applications; such as to sound an alarm, initialize a delayed egress system, or de-energize an electromagnetic lock.

Switch type SPDT form "C" contacts
- 30 VDC@2 Amp. maximum rating
- All wires run through rail
- Available with all 80 Series devices, except for FM8700
- See page 75 for compatible options

- Minimum Door Widths:
  - Wide Stile Door 24"
  - Narrow Stile Door 24"
- See McKINNEY's Transfer Device Solutions Catalog for QC Hinge and cable requirements
- Order as a 55- option (e.g., 55-8913F x ETMA x 32D x 36")

Universal 855 Retrofit Kit

- Retrofits existing 80 Series device installations with Request-to-Exit Signal Switch option
- Available for wide and narrow stile devices and 8895 Active Dummy Rail
- Compatible with all rail sizes (E, F, J, G)
- Can not be used with 56- rails
- To order separately, order as 855
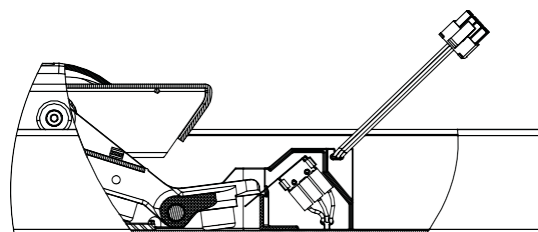
Experience a safer and more open world

The 1600 Series is also available in a **Complete One Box Solution**

HES® 1600

Electric Strike

Works with all brands of

cylindrical and mortise locksets, with or without a deadbolt

The HES 1600

Series electric strike accommodates up to a 1" deadbolt with enhanced vertical cavity spacing.

The HES 1600 Series Electric Strikes set a new standard in the industry by offering dynamic integrated adjustability and field configurable options compatible with any cylindrical or mortise lock. The modular design of the platform makes stocking and installing easier with interchangeable faceplates and accessories. For the first time, the aesthetics of an electric strike are complementary to other surrounding door hardware and blend in with the opening due to the fully finished design, available in seven finishes.

Features

Standard Features
- Stainless steel construction
- Tamper-resistant
- Static strength 1,500 lbs
- Dynamic strength 70 ft-lbs
- Endurance 1 million cycles
- Field selectable fail safe/fail secure
- Non-handed
- Interchangeable faceplates and accessories
- Field replaceable components
- Fully finished faceplate, keeper, case and trim
- Field adjustable integrated shim
- ElectroLynx® connectors
- Strike body depth 1 5/8"
- Static strength: 1500 lbs
- SecuriCare five-year, no fault, no questions asked warranty

Optional Features
- **LM** Lock monitor
- **DLM** Dual lock monitors
- **LMS** Lock monitor and strike monitor
- **DLMS** Dual lock monitors and strike monitor

Accessories
- **157** Torx screws
- **HESCUT-MTK** Metal template kit
- **1600-104-xxx** Lip extension trim adapter (finish to match)
- **1600-106-xxx** 1006 adapter and trim enhancer kit (finish to match)
- **OPT-1SRK** Spring replacement kit
- **OPT-1LM** Single lock monitor
- **OPT-1DLM** Dual lock monitors
- **MOD-1SOL** Solenoid replacement module

For easy 3D instructions, download the BILT mobile app

BILT®

UL CERTIFIED

UL CERTIFIED

Grade 1 | Secur | Mor | Cyl l Locksets | ld Selectable (F l secure /F l safe) | Dual Voltage 12/24 | PoE F ly | lary Rated

lt | lt | 12 24

The global leader in door opening solutions

ASSA ABLOY

Dimensions

[105]
4-1/8"

[124]
4-7/8"

[82]
3-1/4"

[95]
3-3/8"

[32]
1-1/4"

[35]
1-3/8"

[41]
1-5/8"

[44]
1-3/4"

[38]
1-1/2"

[41]
1-5/8"
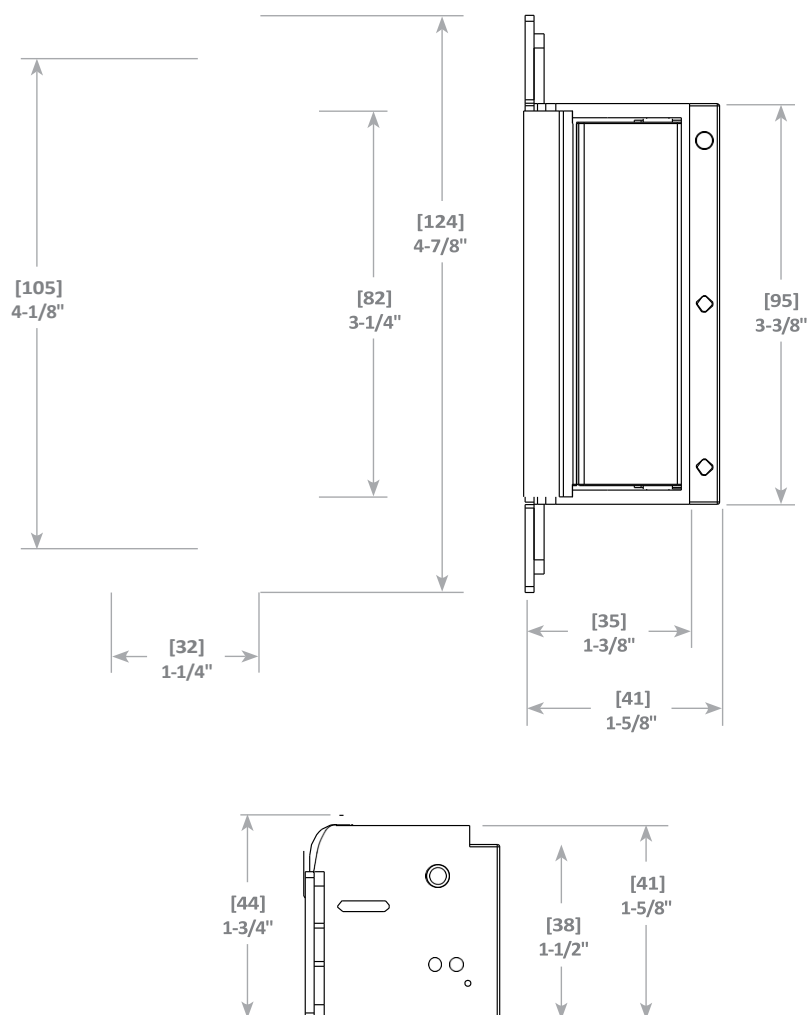
Specifications

Certifications

- ANSI/BHMA A156.31, Grade 1
- UL 1034 burglary-resistant listed and suitable for outdoor use
- UL 294 (6th Edition) listed
- RoHS compliant
- Static strength: 1500 lbs
- UL 10C fire-rated, 3 hour single door (fail secure only)
- UL 10C fire-rated, 1-1/2 hour double door (fail secure only)
- CAN/ULC-S104 fire door conformant
- NFPA-252 fire door compliant
- ASTM-E152 fire door compliant
- California Fire Marshal listed
- ANSI/SDI A250.13 windstorm resistant
- Florida Building Code approved TAS 201, 202, 203
- ANSI-ASTM E330

Frame Application

- Metal
- Wood

Electrical (DC Continous Duty)

- Dual voltage 12/24 VDC/VAC
- 240 mA at 12 VDC/120 mA at 24 VDC
- PoE friendly

How to Order

Series		Model		Finish*		Option (s)	
1600		**− CS**		**− 630**		**− LM**	
1600	Universal Electric Strike; Faceplate option kits ordered separately	**CS**	Complete Electric Strike; Includes 1LB faceplate kit for latchbolts and 1DB faceplate kit for deadbolts	**605**	Bright Brass	**LM**	Lock Monitor
				606	Satin Brass	**DLM**	Dual Lock Monitor
				612	Satin Bronze	**LMS**	Lock Monitor and Strike Monitor*
		CLB	Complete Electric Strike for Latchbolt Locks; Includes 1LB faceplate kit for latchbolts	**613**	Bronze Toned	**DLMS**	Dual Lock Monitors and Strike Monitor*
				613E	Dark Oxidized Satin Bronze	**OPT-1LM**	Single Lock Monitor
				629	Bright Stainless Steel	**OPT-1DLM**	Dual Lock Monitors
		CDB	Complete Electric Strike for Deadbolt Locks; Includes 1DB faceplate kit for deadbolts	**630**	Satin Stainless Steel		
				BSP	Black Suede Powder		

Complete Pacs are only available in the 630 finish

HES 1500C Complete Electric Strike
For all cylindrical and mortise locksets with 3/4" latchbolt

The 1500C includes a 1500 electric strike body and the 1LB faceplate kit for latchbolts.:

1J Option   1KM Option
1K Option   1KD Option

Compatible Locksets
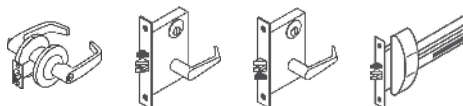
HES 1600CLB Complete for Latchbolt Locks
The Complete One Box Solution for all cylindrical and mortise locksets

The 1600CLB includes a 1600 electric strike body and the 1LB faceplate kit for latchbolts.

1J Option   1KM Option
1K Option   1KD Option

Compatible Locksets
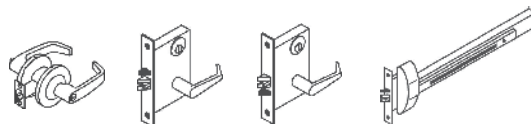
HES 1600CS Complete Electric Strike
The Complete One Box Solution for all cylindrical and mortise locksets, with or without a 1" deadbolt

The 1600CS includes a 1600 electric strike body, the 1LB faceplate kit for latchbolts and the 1DB faceplate kit for deadbolts.

1J Option   1KD Option   1ND Option
1K Option   1N Option   1NTD Option
1KM Option   1NM Option

Compatible Locksets
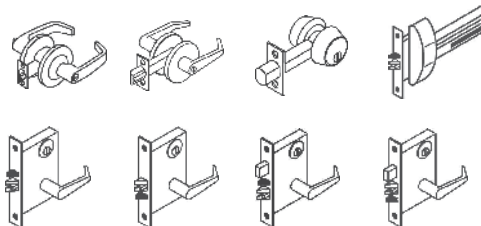
HES 1006CDB Complete for Deadbolt Locks
The Complete One Box Solution for all locksets with a 1" deadbolt.

The 1600CDB includes a 1600 electric strike body and the 1DB faceplate kit for deadbolts.

1N Option   1ND Option
1NM Option   1NTD Option

Compatible Locksets
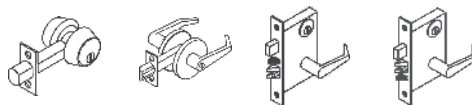
HES 1500 & 1600 Series Faceplate Options

Operation: *After releasing the latchbolt, the keeper returns to the locked position*

4-7/8" × 1-1/4"

1LB Option

The Latchbolt Solution: Includes the hardware to accommodate every cylindrical and mortise lock up to a 3/4" latchbolt. For metal frame applications.
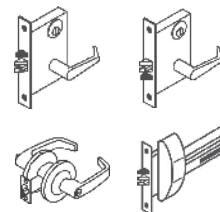
Operation: *After releasing the latchbolt, the keeper returns to the locked position*

9" × 1-3/8"

1LB-2 Option

The Deadbolt Solution: Includes the hardware to accommodate every cylindrical and mortise lock up to a 3/4" latchbolt. For wood frame applications.
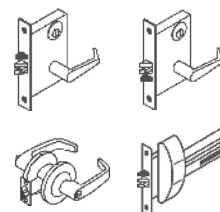
Operation: *This deadbolt solution offers two modes of functionality; night latch, lockout, and normally extended deadbolt. (Functional operation modes described below.)*

4-7/8" × 1-1/4"

The Deadbolt Solution: Includes all hardware to retain, and release all mortise locks, and tubular deadbolts up to a 1" latchbolt. For metal frame applications.
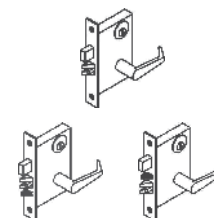
Operation: *This deadbolt solution offers two modes of functionality; night latch, lockout, and normally extended deadbolt. (Functional operation modes described below.)*

9" x 1-3/8"

The Deadbolt Solution: Includes all hardware to retain, and release all mortise locks, and tubular deadbolts up to a 1" latchbolt. For wood frame applications.

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assaabloyesh.com | 800.626.7590
10027 S. 51st Street Phoenix, Z 85044 US

Patent pending and/or patent
assaabloydss.com/patents
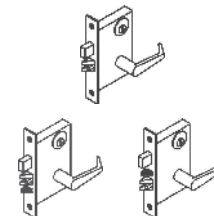
HES 1500 & 1600 Series Faceplate Dimensions

1J
Faceplate Option
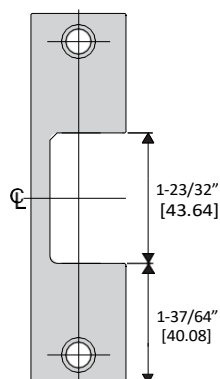
1-23/32"
[43.64]

1-37/64"
[40.08]

1K
Faceplate Option
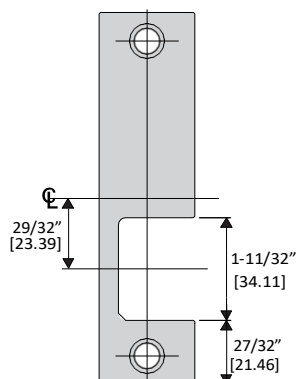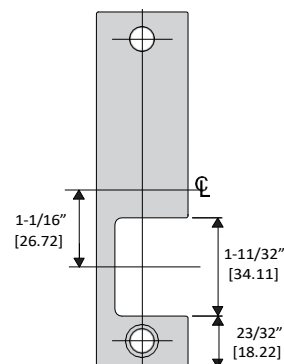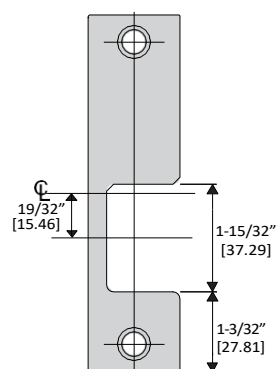
29/32"
[23.39]

1-11/32"
[34.11]

27/32"
[21.46]

1KD
Faceplate Option

1-1/16"
[26.72]

1-11/32"
[34.11]

23/32"
[18.22]

1KM
Faceplate Option

19/32"
[15.46]

1-15/32"
[37.29]

1-3/32"
[27.81]

1N
Faceplate Option

3-1/8"
[79.37]

7/8"
[22.23]

1ND
Faceplate Option

5/32"
[3.97]

3-1/8"
[79.37]

23/32"
[18.26]

1NM
Faceplate Option

1/8"
[3.17]

2-7/8"
[73.02]

1-9/64"
[28.83]

1NTD
Faceplate Option

1-1/4"
[32.0]

13/16"
[20.5]

15/16"
[23.8]

1-1/2"
[38.1]

23/32"
[18.22]
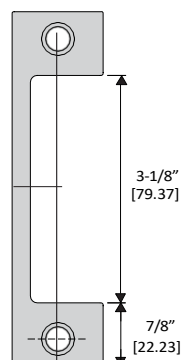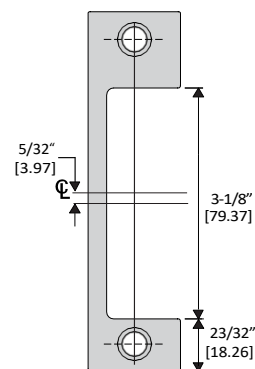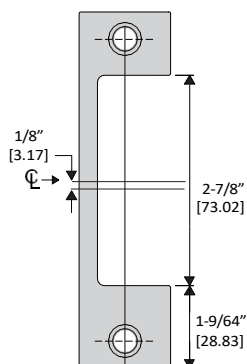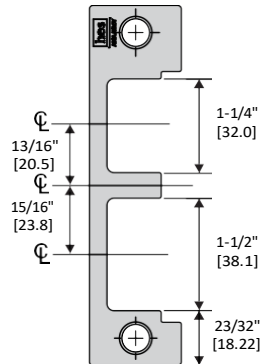
"For use with" information is offered as a recommendation only. Reference should be made to the lockset manufacturer for proper installation instructions necessary to meet compatibility requirements.

The global leader in
door opening solutions

ASSA ABLOY

1J-2
Faceplate Option

1.72"
[43.63]

.86"
[21.81]

3.63"
[92.22]
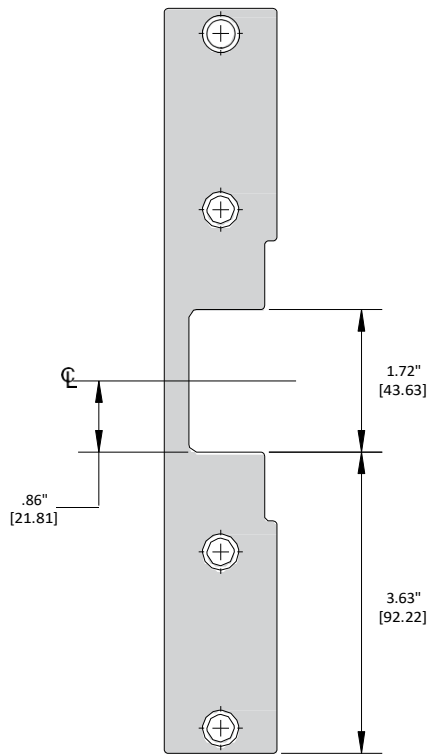
1KM-2
Faceplate Option

1-15/32"
[37.29]

19/32"
[15.46]

3-1/8"
[80]
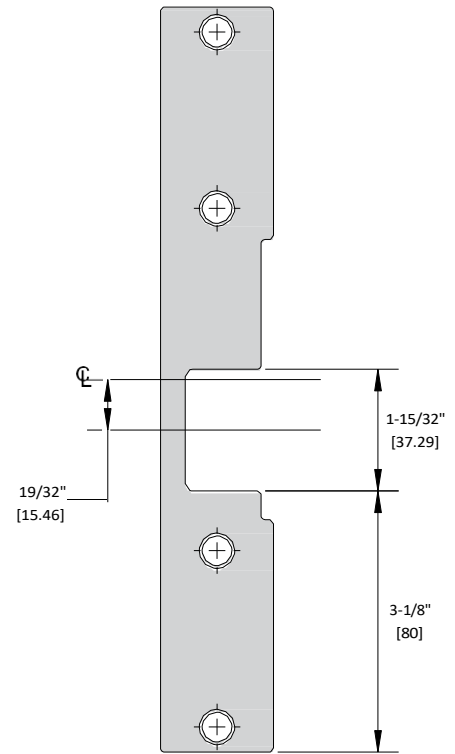
1N-2
Faceplate Option

3-1/8"
[79.37]

2-25/32"
[71]
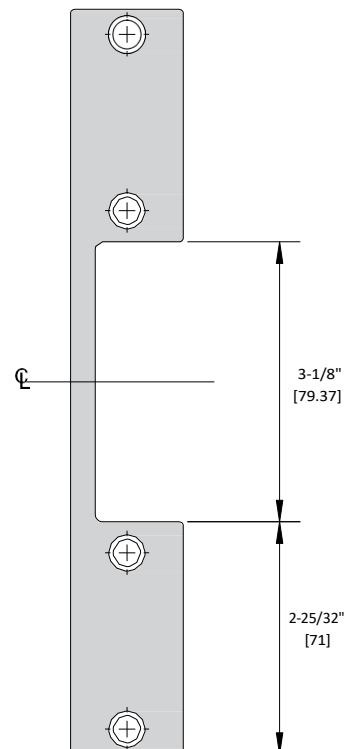
Groove

Get your groove on. The machined bands at both ends of these post mount pulls provide an added level of sophistication.

Straight Pulls - Flat End

Part	Dia.	Proj.
RM3101	1"	$2^3/_4$"

Offset Pulls - Flat End

Part	Dia.	Proj.
RM3131	1"	$2^1/_2$"

Small Straight Pulls - Flat End

Part	Dia.	Proj.
RM1211	$^5/_8$"	$1^1/_2$"

RIXSON®

Model 998

Application
Wall Mount
Standard Doors
Concealed Wiring

Product Description & Features
• Total Projection: 3-5/8"(92mm)
• Mounting Requirements:
  2" x 4" x 1-3/4"(51 x 102 x 45mm)
  outlet box
• Wall must be properly reinforced and
  outlet box adequately fastened
• UL listed door holder

Technical Information
• Voltage and Current:
  120 VAC, 60 Hz., .020 amp
  24 VAC/DC, 60 Hz., .020 amp
  12 VDC, .040 amp

  250 VAC, 50/60 Hz., .009 amp

• Shipping Weight: 2-1/2 lbs. (1.1 kg)

Note: Two Templates Required (Click here to view template 1)

Technical Information   (Click here to view template 2)
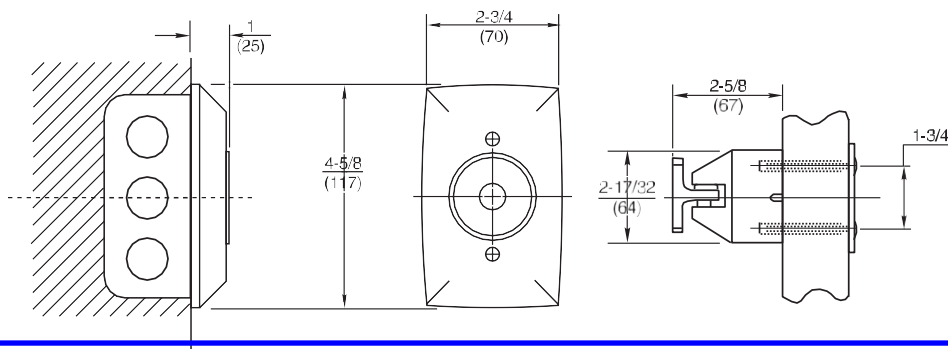
Model 999

Application
Typical Usage
Universal Mounting

Product Description & Features
• Base Plate; Concealed Wiring
• Total Projection: 4-3/8"(111mm)
• Mounting Requirements:
  2" x 4"(51 x 102mm) outlet box;
  4"(102mm) square box; 4"(102mm)
  octagonal box
• Wall must be properly reinforced and
  outlet box adequately fastened
• UL listed door holder

Technical Information
• Voltage and Current:
  120 VAC, 60 Hz., .020 amp
  24 VAC/DC, 60 Hz., .020 amp
  12 VDC, .040 amp

  250 VAC, 50/60 Hz., .009 amp

• Shipping Weight: 2-3/4 lbs. (1.2 kg)

(Click here to view template 1)

(Click here to view template 2)

Note: Two Templates Required
Technical Information

Electromagnetic Door Releases

®

Securitron iMXDa

Delayed Egress Magnalock®

Configurable, 1,200 lbs holding force, delayed egress Magnalock

Integrated movement exit delay with

all-in-one Magnalock.

Prevent losses at emergency exits with iMXDa. An attempted exit initiates an alarm and a brief delay before the lock releases, giving personnel time to respond before an exit occurs. Protect memory care wards, hospitals, dormitories, airports, child care facilities and retail or warehouse environments. Used on out- swing doors, installation requires no alteration or replacement of existing fire-rated or non-fire-rated latching hardware.

Features

Standard Features

- Automatic dual-voltage—no field adjustment required
- Bracket mounting provides the easiest install for out-swing doors
- Size optimized for use with door closers
- Patented BondSTAT lock bond sensor
- Instant release circuit—no residual magnetism
- Internal wire access chamber
- Easily visible LEDs indicate status on secure side of door
- Advanced intelligent microprocessors provide alarm options and trainable door movement detection to minimize false alarms
- Permits free egress in emergency situations
- Fully integrated delay and detection features for fast installation of delayed egress system
- Easily adjustable door movement detection from 1/8" [3.2 mm] to 1" [25.4 mm]
- External alarm relay isolated dry contact (1A at 24 VDC)
- External reset

- Configurable settings include: Nuisance alarm times – 0 to 3 seconds, Irrevocable delay times -15 or 30 seconds, External bypass delay times – 0, 5, 10, or 15 seconds, Post alarm reminder, Bypass expiration alarm, Manual relock or delayed automatic relock (BOCA)
- Required sign included
- Ultra-secure collapsing blind nuts mount to door frame for strength and reliability
- Rust resistant - all ferrous metal surfaces plated for durability
- MagnaCare® lifetime replacement, no fault, no questions asked warranty

Optional Features

- **iEXDa** allows alarm initiation via an external panic device
- **iMXDaCA** is CAL Fire BML listed
- **iMXDaCH** is Chicago compliant
- **iMXDaH** for HUGs® Infant Protection System

LIFE
MagnaCare Warranty

12/24
Auto Sen I Voltage 12/24

load

Dimensions

8-15/16"
[226mm]

5/16"
[8.1mm]

2"
[51mm]

2-3/4"
[70mm]

3-5/8"
[92mm]

12-1/2"
[318mm]

5/16"
[8mm]

29"
[737mm]

1"
[25mm]

1"
[25mm]

5/16"
[8mm]

3"
[76mm]

30 PUSH UNTIL ALARM SOUNDS
DOOR CAN BE OPENED IN 15 SECONDS
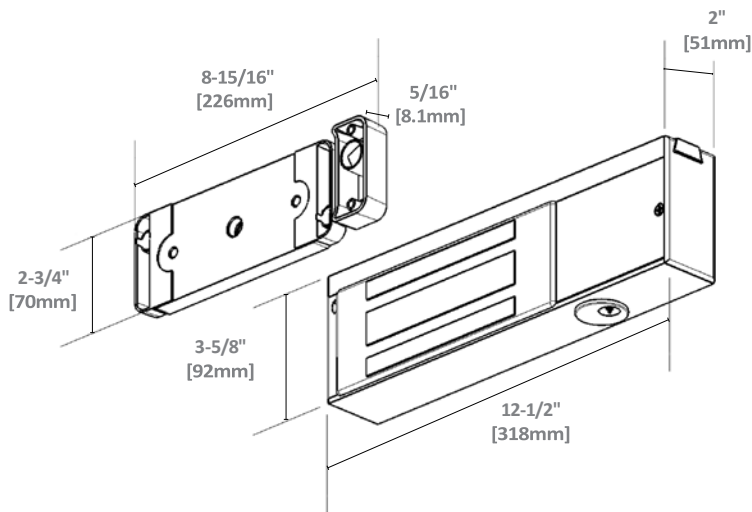
Specifications

Certifications

- CAN/ULC-S533 Listed
- ANSI/UL 294 Listed
- NFPA 101
- CSFM—California State Fire Marshal Approved (IMXDA-CA only)

Dimensions

- **Magnalock:** 12-1/2"L x 2"D x 3-5/8"H
- **Strike:** 8-15/16"L x 5/16"D x 2-3/4"H

Electrical

- 370 mA max at 12 VDC
- 270 mA max at 24 VDC

Holding Force

- 1,200 lbs [544kg]

Operating Temperature

- +32 to +104F [0 to +40C]
- Indoor use only

Shipping Weight

- 15 lbs [6.80kg]
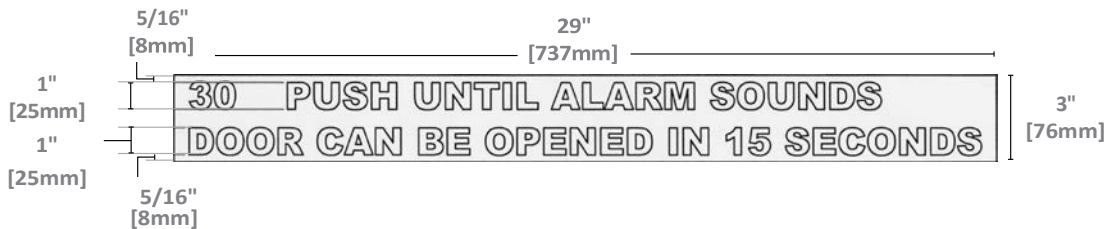
How to Order

Model Series	Timing Options
iMXDa	**CH**
iMXDa　Integrated Initation	**(blank)**　Adjustable Timing
iEXDa　External Initation	**–CA15S**　California Required 15s Timings
	–CA30S　California Required 30s Timings
	CH　Chicago Required Timings
	H　HUGS Infant Protection Timings

Patent pending and/or patent
assaabloydss.com/patents

Securitron M680E EcoMag

Sustainable Magnalock®

1,200 lbs holding force, bracket mounted,
sustainable Magnalock

The same unsurpassed intelligence, style and convenience as the previous M680 series, but with 80% reduction in energy consumption.

The Securitron M680E is intelligent, with built-in door prop sensing allowing the magnet to de-energize the coil when the door is held open for extended periods. The Securitron M680EBD offers built-in smart voltage sensing, integrated patented BondSTAT, tamper sensor as well as door position status monitoring. The aesthetics and design finishes of the EcoMag are refined enough for the most discriminating designer openings. It also offers the fastest, easiest, most secure installation of any bracket mount maglock with an updated strike plate mounting template. The optional integrated request to exit (REX) provides optimum coverage for detecting an approaching person so the door unlocks for egress.

Features

Standard Features

- Strike plate mounting template provides the easiest install for out-swing doors
- LED Indicator shows the lock is secure, open, or has an incomplete bond
- Wire chamber anti-tamper switch
- Tamper Switch sends an alarm output if the cover is removed and is selectable to NO or NC
- Available integrated BondSTAT and Door Position Switch
- Autosensing dual voltage with microprocessor technology
- Adjustable automatic relock timer (0 to 30 seconds)
- Energy efficient, low power usage
- Size optimized for use with door closers
- MagnaCare® lifetime replacement, no-fault, no questions asked warranty

Optional Features

- **B** Integrated patented BondSTAT magnetic bond sensor
- **D** Integrated Door Position Switch (DPS)
- **X** Integrated passive infrared request to exit

For easy 3D instructions, download the BILT mobile app

BILT.

UL CERTIFIED

UL CERTIFIED

②
Grade 2

LIFE
MagnaCare Warranty

12/24
Auto Sensing Dual Voltage 12/24

PoE Friendly

Fire Rated

Preload

ASSA ABLOY   ELECTRONIC SECURITY HARDWARE HES | Securitron

Securitron M680E EcoMag Sustainable Magnalock

Specifications

Certifications

- UL 10C Fire Rated, 1 Hour
- CAN/ULC-S104 Fire Door Conformant
- UL 1034 Burglary-Resistant Listed
- UL 294
- ANSI/BHMA A156.23, Grade 2; E18501 Compliant
- California State Fire Marshal Listed

Electrical

- **Maglock Average Power Draw (±10%)**
  — 113 mA at 12 VDC
  — 52 mA at 24 VDC
- **Maglock Maximum Power Draw (±10%)**
  — 515 mA at 12 VDC
  — 290 mA at 24 VDC
- **REX Power (±10%)**
  — +25 mA at 12 VDC
  — +10 mA at 24 VDC

Holding Force

- 1,200 lbs [544kg]

Operating Temperature

- 32˚ to 110˚F [0˚ to 43˚C]
- Indoor use only

Shipping Weight

- 8 lbs [3.6kg]

Dimensions
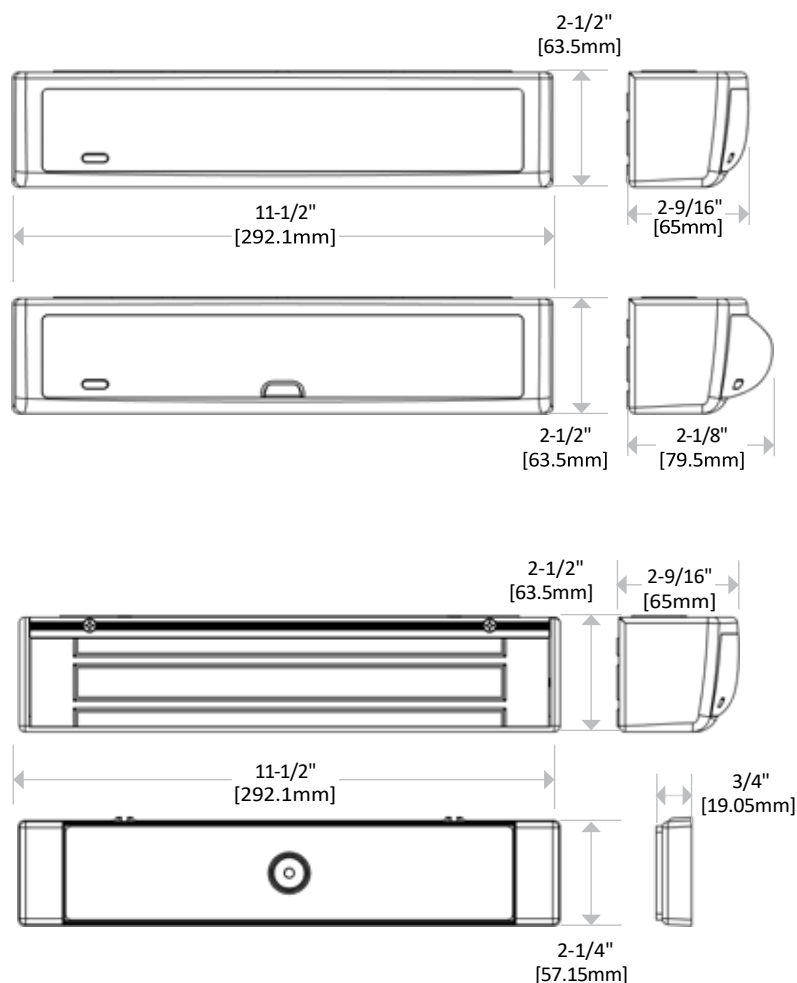
How to Order

MODEL SERIES	MONITORING OPTIONS	ACCESSORY OPTIONS	FINISH OPTIONS
M680E	**BD**	**X**	**–606**
M680E 1,200 lbs	**(blank)** No Monitoring	**(blank)** No Accessory Options	**628/US28** Satin Aluminum Clear
	BD BondSTAT Monitor & Door Position Switch	**X** PIR Request to Exit	**600** Paintable Primer Gray Finish
			605/US3 Bright Brass
			606/US4 Satin Brass
			612/US10 Satin Bronze
			613E Dark Oxidized Satin Bronze
			629 Bright Stainless Steel
			630 Satin Stainless Steel
			BSP Black Suede Powder
			WSP* White Suede Powder

Finish option available soon. Please contact your Sales Representative for product details, availability and pricing.

SARGENT

ASSA ABLOY

281-0 Standard Application

O ARM SHOWN

5-13/16" (148mm)

7/8" (22mm)

7/8" (22mm)

4-3/8" (111mm)

2-3/16" (56mm)

11-13/16" (300mm)

4-3/16" - 6-3/16" (106mm - 157mm)
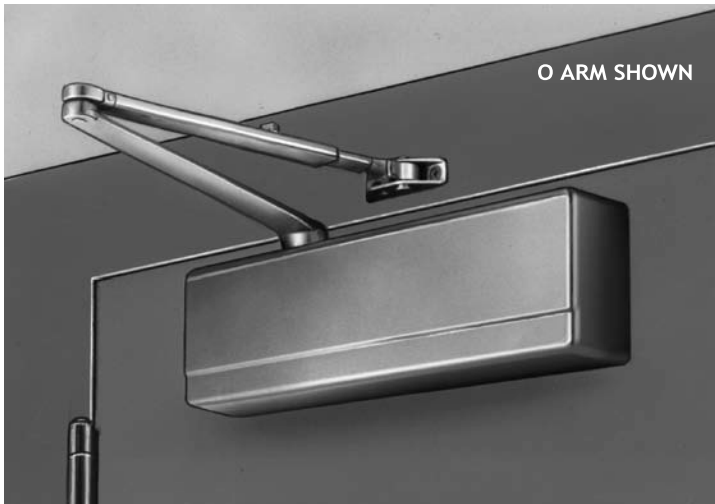
The standard application of the 281 door closer is the most common providing high degree of door control and range of power adjustment. The closer is mounted on the pull side of the door with the arm mounted on the face of the frame. When the door opens, the arm passes over the top of the door.
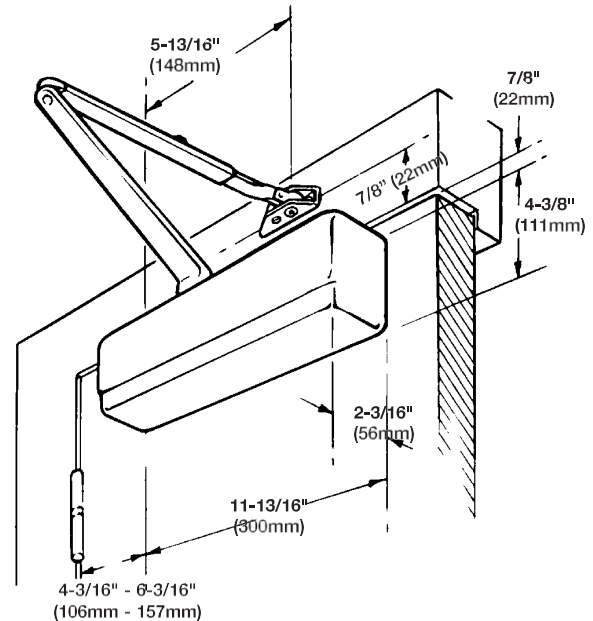
281 Standard Application for:

· Interior Doors Opening In or Out
· Exterior Doors Opening In

Cover Projection normally limits door opening to 160˚

Door in Closed Position

Door in Open Position

Wall
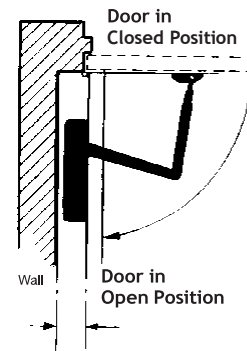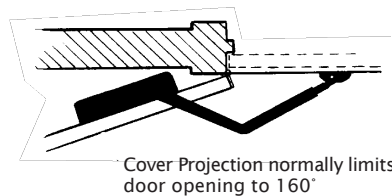
Regular Duty Standard Arms

For use in moderate duty institutional applications
· Two piece sliding arm provides flexibility and ease of installation
· Double jointed arms allow flexibility in vertical mounting position
· Friction and fusible hold open arms available
· Mortised feet available for special frame applications

Heavy Duty Standard Arms

For use in abusive or high use installations
· Solid forged steel arms provide strength
· Friction hold open arm available
· Oil bronze bearings provide a high degree of wear resistance
· 2 piece rigid arms for ease of installation

SARGENT®

ASSA ABLOY

Regular Duty Standard Arms

O - Standard Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Permits 120° door opening with standard mounting
- Permits 180° door opening with alternate mounting or corner bracket

Order as 25-O x finish for arm only
Includes: 63-2607 - Main arm and link assembly
 63-2216 - Foot assembly
 63-3481 - Screw pack

H - Hold Open Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Hand is changed by inverting the foot assembly
- Friction type holder easily adjustable
- Permits 180° door opening
- Holds open from 80° to 180°

Order as 25-H x finish for arm only
Includes: 63-2229 - Main arm and swivel assembly
 61-2303 - Foot assembly
 63-3481 - Screw pack

F - Fusible Link Hold Open Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Handed same as door
- Friction type holder easily adjustable
- Holds open from 80° to 140°
- 160° F Link Standard
- Specify 125°F Link when required

Order as 25-F x hand x finish for arm only
Includes: 63-2240 - Left hand main arm and link assembly
 63-2241 - Right hand main arm and link assembly
 63-2468 - Foot assembly
 63-3481 - Screw pack

O8 - Mortise Foot Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Permits 120° door opening
- Commonly used with bull nose frames

Order as 25-O8 x finish for arm only
Includes: 63-2607 - Main arm and link assembly
 63-2273 - Foot assembly
 63-3481 & 63-2391 - Screw packs

H8 - Mortise Foot Hold Open Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Handed same as door
- Friction type holder easily adjusted by a wrench
- Holds open from 80° to 180°

Order 25 R-H8 for right hand and 25 L-H8 for left hand x finish for arm only
Includes: 63-2229 - Main arm & link assembly
 63-2289 - Left hand foot assembly
 63-2290 - Right hand foot assembly
 63-2290RH - Foot assembly
 63-3481 & 63-2391- Screw packs

F8 - Mortise Foot Fusible Link Hold Open Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Handed same as door
- Friction type holder easily adjusted by a wrench
- Permits 140° door opening
- Holds open from 80° to 140°
- 160° F Link Standard
- Specify 125° F Link when required

Order as 25-F x hand x finish for arm only
Includes: 63-2240 - Left hand main arm assembly
 63-2241 - Right hand main arm assembly
 61-2273 - Foot assembly
 63-3481 & 63-2391 - Screw packs

OLC - Standard Arm for Low Ceiling

- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Must be used when the distance between the top

 of door to ceiling is between 1 1/4" - 1 1/2"
- Permits 120° door opening with standard mounting

Order as 25-OLC x finish for arm only
Includes: 63-2549 - Main arm and link assembly
 63-2216 - Foot assembly
 63-3481 - Screw pack

UH Package

- Universal hold open arm package provides brackets and arms to install closer in top jamb, standard

 or parallel applications

Screw packs
63-3481 & 63-2391

125-PH9

UO Package

- Universal arm package provides brackets and arms to install closer in standard top jamb or
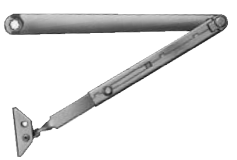
 parallel applications

Screw packs
63-3481 & 63-2391

125-P9

Heavy Duty Standard Arms

O10 Heavy Duty Standard Arm

- Forged Steel Arm
- Non-handed
- Permits 110° door opening with standard mounting
- Permits 180° door opening with alternate mounting

Order as 25-O10 x finish for arm only
Includes: 63-0792 - Main arm
 63-4309 - Foot assembly
 63-3481 - Screw pack

H10 - Hold Open Heavy duty Standard Arm

- Forged Steel Arm
- Non-handed
- Hand is changed by inverting the foot assembly
- Friction type holder easily adjusted by a wrench
- Permits 180° door opening
- Holds open from 80° to 180°

Order as 25-H10 x finish for arm only
Includes: 63-0792 - Main arm
 63-4308 - Foot assembly
 63-3481 - Screw pack

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P9 ARM SHOWN

281-P9 Regular Parallel Arm Application

1" MIN (25mm)

P9 Parallel Arm

6-3/8" (162mm)

4-3/8" (111mm)

2-3/16" (56mm)

11-13/16" (300mm)

1/4" - 3-1/8" (6mm - 79mm)

Parallel Arm Application - The 281 closer is mounted on the push side of the door. As the door opens, the closer swings with the door and gives full headroom in the door opening. Other advantages are that the closer arm does not project into the room, the frame can be quite narrow and the door can be swung open much further than in Top Jamb Applications. However, the closing force is not as great.

Heavy Duty Parallel Arms

For use in high traffic and abusive environments

- Forged steel arm and cast iron foot bracket for strength and durability
- Oiled bronze bearings for superior wear resistance
- 2 piece rigid arms for ease of installation
- Friction and positive hold open arms available

- Use friction hold open arms for doors subject to moderate hold open use
- Dead stop and compression stop arms available
- Security non-hold open arms available

Non hold-open arms

- Two mounting positions for 120˚ and 180˚ maximum door openings

Stop arms

- 6 mounting positions allow stop from 85˚–110˚

Regular Duty Parallel Arms

- For use in moderate duty institutional applications
- Double jointed arm provides flexibility in the vertical mounting position of closer
- Flush frame arms available for use with Auxiliary Holders & Stops
- Flush frame, friction hold open arms available
- Friction and fusible link hold open arms available
- Use friction hold open arms for doors subject to moderate hold open use
- Use offset bracket arms with auxiliary holders and stops

Standard Mounting Position

- 120˚ Maximum door opening
- Holding range of friction and fusible hold open arms: 75˚ - 110˚

Alternate Mounting Position

- Maximum door opening: 180˚
- Holding range of friction and fusible hold open arms: 85˚ - 170˚

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P10 - Heavy Duty Parallel Arm
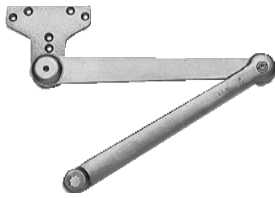
- Forged Steel Arm, 11-1/4" (286mm) long
- Non-handed
- Easily installed
- Permits 120° opening at standard mounting
- Permits 180° opening at alternate mounting

Order as 25-P10 x finish for arm only
Includes: 63-0641 - Main arm
63-3727 - Arm and bracket assembly
63-3481 & 63-2392 - Screw packs

PH10 - Heavy Duty Friction Hold Open Parallel Arm
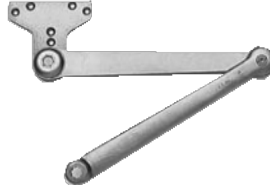
- Equipped with adjustable friction holder
- Adjustable hold open from 75° to 180°
- Forged steel arm, 11-1/4" (286mm) long
- Handed same as door
- Use friction hold open arms for doors subject to moderate hold open use

Order as 25-PH10 x finish for arm only
Includes: 63-0641 - Main arm
63-3839 - Left hand arm and bracket assembly
63-3840 - Right hand arm and bracket assembly
63-3481 & 63-2392 - Screw packs

PD10 - Heavy Duty Parallel Drop Arm

- Arm to be used with surface overhead applied stops
- Forged Steel Arm, 11-1/4" (286mm) long
- Lowers closer 1 1/4" on door
- Non-handed
- Easily installed
- Permits 120° opening at standard mounting
- Permits 180° opening at alternate mounting

Order as 25-PD10 x finish for arm only
Includes: 63-0641 - Main arm
63-4317 - Arm and bracket assembly
63-3481 & 63-2392 - Screw packs

Heavy Duty Hold Open and Stop Arms

Common features:
- Forged steel arms
- Non-handed
- Easy installed and adjusted

· Use positive stop hold open arms for doors subjected to repetitive hold open

The PSH and CPSH arms project 2 3/4" below the head stop

PS - Heavy Duty Parallel Arm with Positive Stop
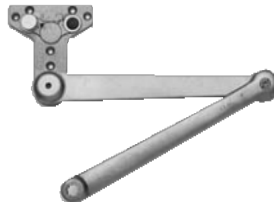
- Provides built in stop from 85° to 110°

Order as 25-PS x finish for arm only
Includes: 63-0641 - Main arm
63-3837 - Arm and bracket assembly
63-3481 & 63-2392, 63-2396 - Screw packs

CPS - Heavy Duty Parallel Arm with Compression Stop
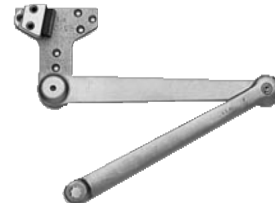
- Provides built in compression stop from 85° to 105°
- Dead stop within 3°

Order as 25-CPS x finish for arm only
Includes: 63-0641 - Main arm
63-3830 - Arm and bracket assembly
63-0516 - Bumper holder
63-3493 - Bumper
63-3481 & 63-2398 - Screw packs

PSH - Heavy Duty Parallel Hold Open Arm with Positive Stop
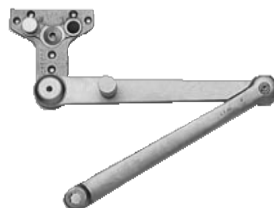
- Adjustable hold open tension
- Hold open function may be disengaged
- Permits 85° to 110° door opening

Order as 25-PSH x finish for arm only
Includes: 63-0641 - Main arm
63-3833 - Arm and bracket assembly
63-3481 & 63-2392, 63-2396 - Screw packs

CPSH - Heavy Duty Hold Open Parallel Arm with Compression Stop
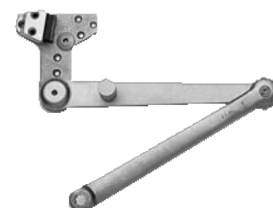
- Adjustable hold open tension
- Hold open function may be disengaged
- Provides built in compression stop and holder mechanism from 85° to 105°
- Dead stop within 3°

Order as 25-CPSH x finish for arm only
Includes: 63-0641 - Main arm
63-3836 - Arm and bracket assembly
63-0516 - Bumper holder
63-3493 - Bumper
63-3481 & 63-3487 - Screw packs

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6/01/07

Hold Open Arms

P4H - Flush Frame, Friction Hold Open Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Holds open from 75˚ to 180˚
- Easily adjusted by wrench
- Non-handed
- Use on frames where stop or soffit is too narrow to mount the standard hold open foot bracket

Order as 25-PH4 x finish for arm only
Includes: 63-2229 - Main arm and link assembly
63-2303 - Foot assembly
64-0050 - Foot bracket
63-3481 & 63-2391 - Screw packs

PH9 - Friction Hold Open Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Holds open from 75˚ to 180˚
- Easily adjusted by wrench
- Non-handed
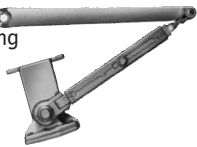
Order as 25-PH9 x finish for arm only
Includes: 63-2229 - Main arm and link assembly
61-2303 - Foot assembly
64-0039 - Foot bracket (125 PH9)
63-3481 & 63-2391 - Screw packs

PF9 - Fusible Link Hold Open Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Fusible link melts and releases hold mechanism allowing door to close
- 160˚F fusible link standard, 125˚F link optional
- Equipped with adjustable friction holder
- Holds door open from 75˚ to 180˚
- Easily adjusted by wrench
- Handed same as door

Order as 25-PF9 x hand x fusible link degree x finish for arm only
Includes: 63-2229 - Main arm and link assembly
63-2245 - Left hand foot assembly
63-2246 - Right hand foot assembly
63-3481 & 63-2391 - Screw packs

Offset Bracket Arms

P3 - 1" Offset Bracket for use with Auxiliary Holder/Stop

- Forged Steel Arm 11-1/4" (286mm) long
- For use with auxiliary surface overhead stops and holders
- Foot bracket is offset 1" more than P-9, allowing door closer to be lowered on door face
- Non-handed

Order as 25-P3 x finish for arm only
Includes: 63-2607 - Main arm and link assembly
63-2270 - Foot assembly
63-3481 & 63-2391 - Screw packs

P3A - 1-3/4" Offset Bracket for use with Auxiliary Holder/Stop

- Forged Steel Arm 11-1/4" (286mm) long
- For use with auxiliary surface overhead stops and holders and door coordinators
- Foot bracket lowers door closer an additional 3/4" below P3 bracket
- Non-handed

Order as 25-P3A x finish for arm only
Includes: 63-2607 - Main arm and link assembly
63-2274 - Foot assembly
63-3481 & 63-2391 - Screw packs

P9 - Standard Parallel Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
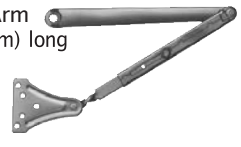
Order as 25-P9 x finish for arm only
Includes: 63-2607 - Main arm and link assembly
63-2271 - Foot assembly
63-3481 & 63-2391 - Screw packs

P4 - 1" Offset Flush Frame Arm for use with Auxiliary Holder/Stop

- Forged Steel Arm 11-1/4" (286mm) long
- Foot bracket is attached to frame or transom face
- Foot bracket is offset 1" more than P9, allowing door closer to be lowered on door face
- For use where stop or soffit is too narrow for the standard P9
- Permits 120˚ opening with standard mounting
- Permits 180˚ opening with alternate mounting
- Non-handed

Order as 25-P4 x finish for arm only
Includes: 63-2607 - Main arm and link assembly
63-2295 - Foot assembly
63-3481 & 63-2391 - Screw pack

P4A - 1-3/4" Offset Flush Frame Arm for use with Auxiliary Holder/Stop

- Forged Steel Arm 11-1/4" (286mm) long
- For use with auxiliary surface overhead stops and holders
- Foot bracket is attached to frame or transom face
- Foot bracket lowers door closer an additional 3/4" below P4 bracket
- Non-handed

Order as 25-P4A x finish for arm only
Includes: 63-2607 - Main arm and link assembly
63-2272 - Foot assembly
63-3481 & 63-2391 - Screw packs

UO Package

- Universal arm package provides arms and brackets to install closer in standard top jamb or parallel application
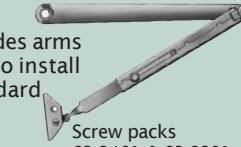
Screw packs
63-3481 & 63-2391

125-P9

UH Package

- Universal hold open arm package provides brackets and arms to install closer in top jamb, standard or parallel applications

Screw packs
63-3481 & 63-2391

125-PH9

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6/01/07

10 SERIES

Product Description & Features

- Adjustable
- Interior doors
- Single acting doors
- Non-handed
- Slide track design
- Recommended for moderate traffic, medium weight doors
- Degree of opening fully adjustable and can be adapted to changing needs
- Heavy shock absorber spring provides compression before deadstop
- Can be ordered specifically as a stop, friction stay, or hold open.
- Multi-function unit is shipped as a stop. Can be converted to a hold open or friction in field. 5012-PKG (Adapter kit) included
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- Torx® screws optional for security applications, but heavy-duty units should be considered for high-security applications
- Standard architectural finishes
- Durable slider cam and shock block
- 110° maximum opening
- 3/4" square channel
- Stop function UL listed for fire door assemblies
- For pull side mounting or flush and rabbeted mounting on push side use angle jamb bracket adapter 5258
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory
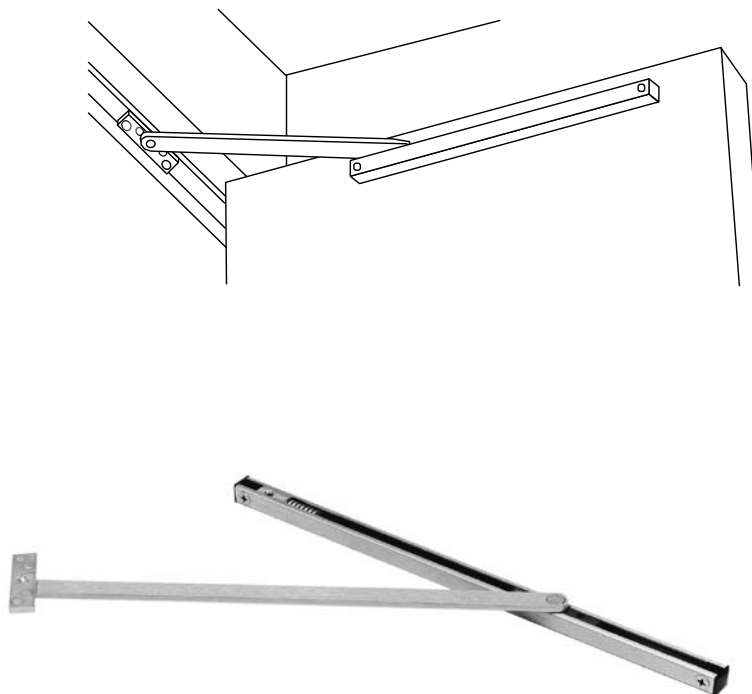
Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number			
		Friction	H.O.	Stop	Multi
*18 - 24	21 - 26-1/2	10-116	10-126	10-136	10-146
24-1/16 - 30	26-9/16 - 32	10-216	10-226	10-236	10-246
30-1/16 - 36	32-1/16 - 38	10-316	10-326	10-336	10-346
36-1/16 - 42	38-1/16 - 45	10-416	10-426	10-436	10-446
42-1/16 - 48	45-1/16 - 48	10-516	10-526	10-536	10-546

ANSI No.			
Shipping Weight 3.5 lbs.	Friction	H.O.	Stop
	C05532	C05512	C05542

*Butt hung only on this size door. No swing clear hinges.

ASSA ABLOY, the global leader in door opening solutions

1 SERIES

Product Description & Features

- Heavy-duty
- Interior or exterior doors
- Doors may be single or double acting
- Non-handed
- Slide track design
- Recommended for high traffic, heavy abuse installations
- Heavy shock absorber spring provides 5 -7° compression before dead stop
- LS option omits spring for special applications
- Surface on/off knob on hold open models
- Stop, friction stay or hold open functions
- Complete screw packet for installation in wood and machine screws for door and frame.
- For security areas, Torx® screws available for exposed fasteners
- Standard architectural finishes
- Durable slider cam and shock block
- 110° maximum opening
- 1-3/4" minimum door thickness, for thicker doors, note thickness when ordering
- 1-3/16" square channel
- Stop function UL listed for fire door assemblies
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory
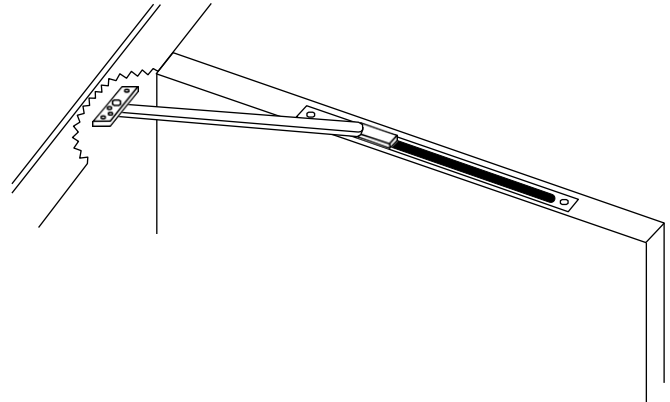
Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number		
		Friction	H.O.	Stop
*24 - 28	—	1-116	1-126	1-136
28-1/16 - 33	30 - 36	1-216	1-226	1-236
33-1/16 - 38	36-1/16 - 41	1-316	1-326	1-336
38-1/16 - 43	41-1/16 - 46	1-416	1-426	1-436
43-1/16 - 48	46-1/16 - 50	1-516	1-526	1-536

	ANSI No.		
Shipping Weight 4.5 lbs.	Friction	H.O.	Stop
	C01531	C01511	C01541

*Butt hung only on this size door. No swing clear hinges.

ASSA ABLOY, the global leader in door opening solutions

![hes ASSA ABLOY logo]

Installation Instructions

2005M3 SMART Pac III™

HES, Inc.
22630 N. 17th Ave.
Phoenix, AZ 85027
800-626-7590
www.hesinnovations.com

Overview

The SMART Pac III is an in-line power controller designed to protect and extend the life of HES electric strikes and other ASSA ABLOY electrified products. The built-in poly switch and zener diode protect the host system from possible reverse current surges, while a reduced voltage 'step down' extends the life of the electric strike by reducing operating temperature. The SMART Pac III can provide a DC output with an input ranging from 10.5 to 33 VDC or 10.5 to 30 RMS AC.

The SMART Pac III can also be used to troubleshoot installation problems. The SMART Pac III's built-in LED can be used as a simplified voltage meter that indicates the power supply voltage at the installation. In addition, the SMART Pac III has a two-position Slide Switch that matches the SMART Pac III output voltage to the operating voltage of the electric strike. Note: The input voltage must be in range of the voltage required by the electric strike.

Power Output

Slide Switch

LED Status Indicator

Power Input
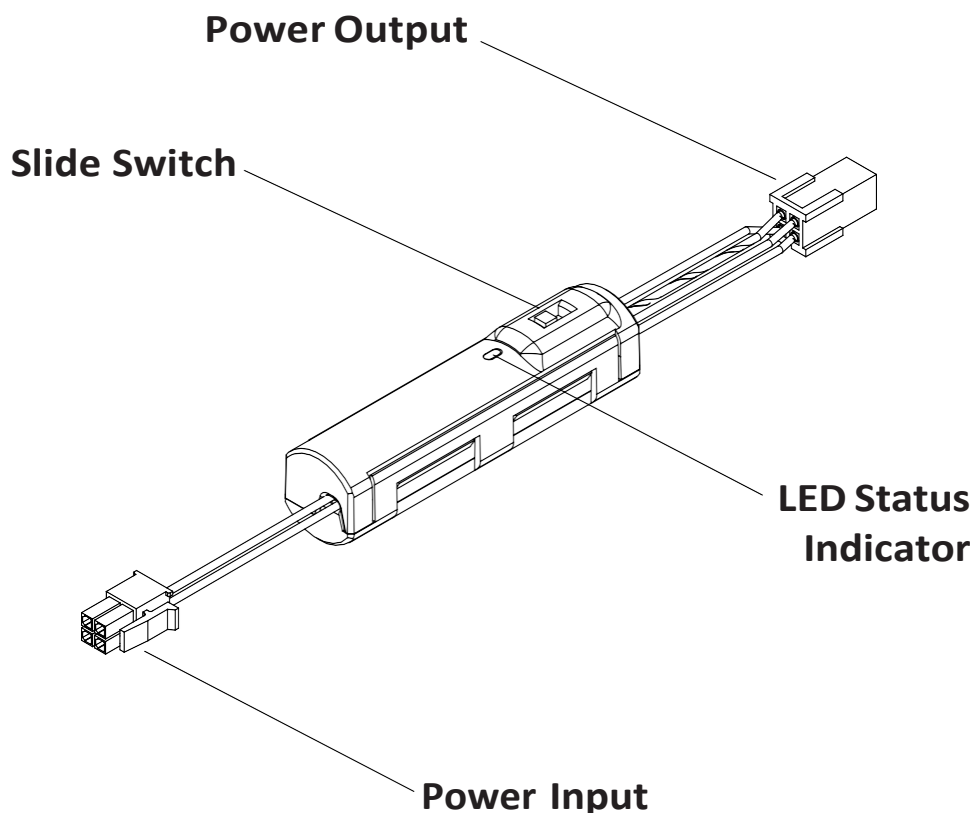
1. **Connecting the SMART Pac III:** Connect the SMART Pac III to the wires coming from the access control panel as shown on Page 3, using either the 12V or 24V pigtail provided with the HES electric strike. If using other ASSA ABLOY electrified products, refer to the wiring schematic on Page 4.

2. **Using SMART Pac III to confirm correct input voltage:** Set the SMART Pac's slide switch to the voltage of the power supply (see Page 3) and activate power. The behavior of the SMART Pac's LED Status Indicator will communicate the following:

• Voltage input, and if it is within the input requirements listed on Page 3

• Correct position of the the SMART Pac's slide switch for the voltage input

3. **Resolving Fault Codes:** A blinking or unlit LED indicates corrective action is needed.

      a. Using the LED STATUS INDICATOR TABLE below determine the appropriate corrective action.
      b. Remove power to the SMART Pac III and correct the error condition.
      c. Wait 10 seconds and re-power the unit.   This will reset the LED indicator.

Warning: The slide switch configures the wiring to the electric strike. It does not control the SMART PAC III's voltage output and will not prevent an overload condition if set improperly. The voltage rating of the electric strike must match the voltage output of the power supply (e.g.: Use a 24 Volt strike if you have a power supply rated at 24 Volts.)

If using an electric strike and/or additional devices in series with a single SMART PAC III, do not exceed a current rating of 750 MA at 25 C.

4. **Connecting the Electric Strike:** With no power supplied to the SMART Pac III, connect the electric strike. Verify the operation of the electric strike and a steady LED color when power is present.

LED STATUS INDICATOR TABLE

	LED COLOR	INPUT CONDITION	OUTPUT CONDITION	CORRECTIVE ACTION
1	Steady Green	10.5-21V*	15 VDC MAX STEPPING TO 9 VDC	NONE REQUIRED
2	Steady Yellow	21-33V*	30 VDC MAX STEPPING TO 18 VDC	NONE REQUIRED
3	Off or Blinking Green	TOO LOW (min. 10.5V)	~ 0	INCREASE VOLTAGE
4	Blinking Yellow	TOO HIGH (>33V)	~ 0	DECREASE VOLTAGE
5	Blinking 2 Yellow/2Green	ANY	WRONG SLIDE SWITCH POSITION	CHANGE SLIDE SWITCH POSITION
6	Blinking Yellow/Green	ANY	DOWNSTREAM SHORT	FIND AND REMOVE SHORT

*See input requirements on Page 3

NOTE: A self re-setting poly switch is built into the SMART Pac III to prevent damage to the electric strike in an over-current situation or downstream short. Normally, the SMART Pac III will detect over current situations and shut down the power output before the poly switch opens. If the poly switch trips there will be no voltage output and no LED status.

Installation Directions

12 VOLT CONFIGURATION-Fail Secure or Fail Safe

INPUT REQUIREMENTS:

10.5-21 VDC OR 10.5-15.5 V RMS AC POWER

OUTPUT:

15 VDC MAX

Voltage will drop to 9 VDC after two seconds

Access
Control
Panel
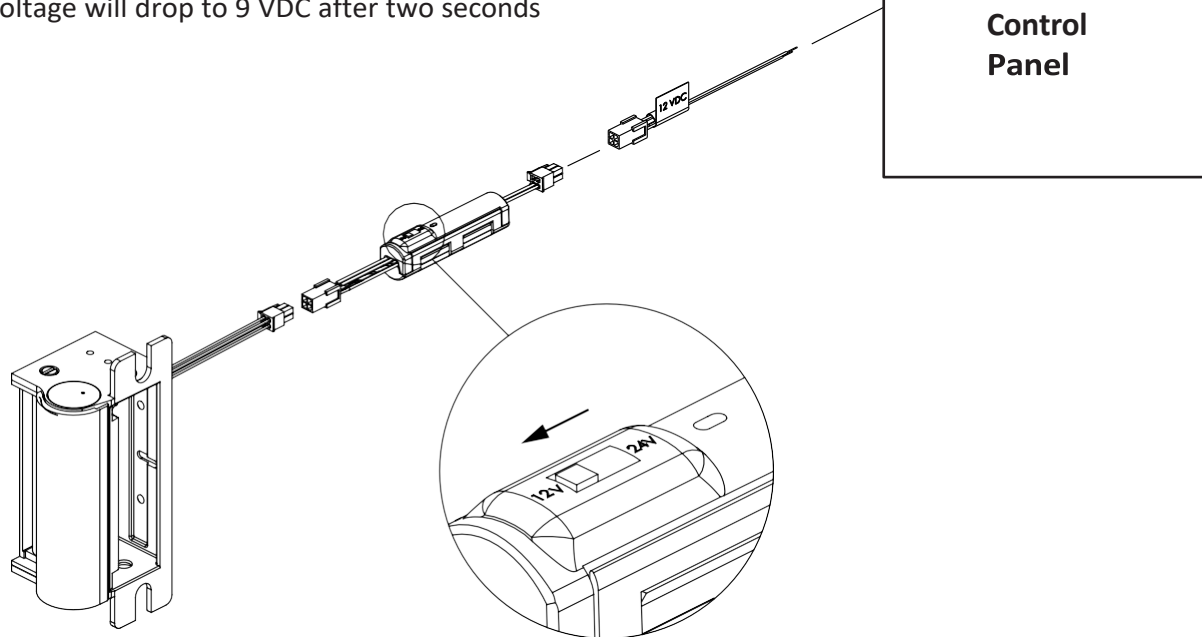
24 VOLT CONFIGURATION-Fail Secure or Fail Safe

INPUT REQUIREMENTS:

21-33 VDC OR 21-30 V RMS AC POWER

OUTPUT:

30 VDC MAX

Voltage will drop to 18 VDC after two seconds

Access
Control
Panel
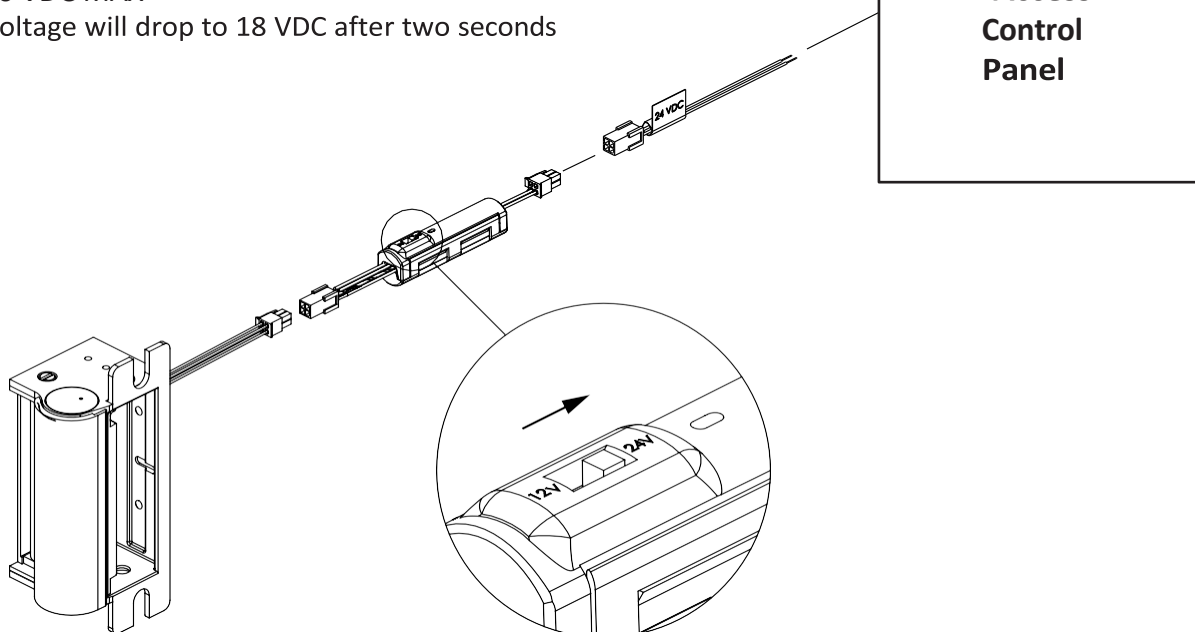
If the SMART Pac III is being used with ASSA ABLOY electrified products check to make sure the electrified product or products do not have a current rating exceeding 750 mA at 25 degrees C. Remove the SMART Pac III molex connectors and connect wires as illustrated in the diagram below.

Note: After modifying, please cap the Black and Violet wires independently to prevent electrical shorting within the frame. Also, verify device is within the current limitations specified on page 2.

If Connectors are Removed

	RED	SMART Pac III	RED	(+ VDC)	Output
(+ VDC OR VAC)			RED/GREEN	(- NEG)	
Input	BLACK		BLACK	(NOT USED)	
(- NEG)			VIOLET	(NOT USED)	
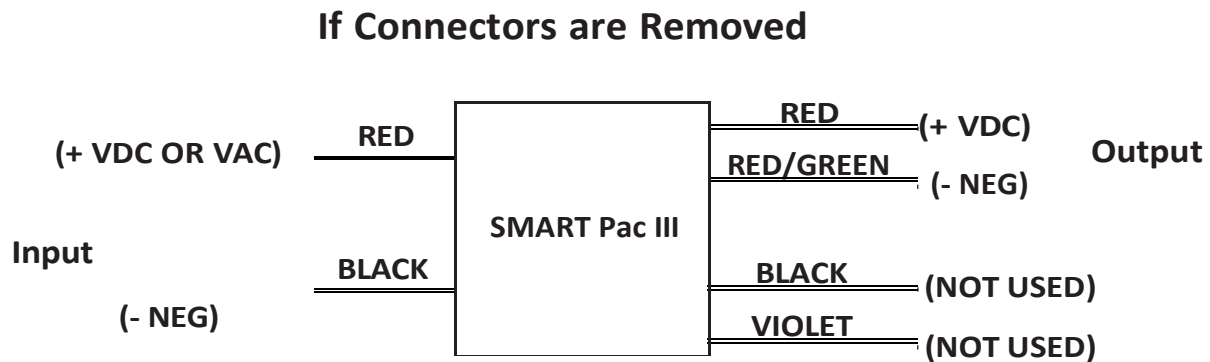
HA9 Easy Selection Guide

PUSH APPLICATIONS

Finish	Header Length	Door Width	HA9 Part #
Clear	39"	36"	HA9-101-39
	45"	42"	HA9-101-45
	51"	48"	HA9-101-51
	75"	36" pair	HA9-101-75
Dark Bronze	39"	36"	HA9-105-39
	45"	42"	HA9-105-45
	51"	48"	HA9-105-51
	75"	36" pair	HA9-105-75

PULL APPLICATIONS

Finish	Header Length	Door Width	HA9 Part #
Clear	39"	36"	HA9-102-39
	45"	42"	HA9-102-45
	51"	48"	HA9-102-51
	75"	36" pair	HA9-102-75
Dark Bronze	39"	36"	HA9-106-39
	45"	42"	HA9-106-45
	51"	48"	HA9-106-51
	75"	36" pair	HA9-106-75

Note: This list represents standard stock sizes. For special sizes or options, please contact Customer Service at 866.901.4284 or CustomerService.Ditec.US@recorddoors.com.

HA9

Full Featured – Low Energy Operator

The Record HA9 is an extremely quiet low energy door operator with a low-profile header that comes jam-packed with standard features.

Its electro mechanical design offers simple dependable operation. The cast alloy arms and door stop have been engineered to resist abusive situations making it perfect for moderate to high-traffic locations including schools & universities, hospitals, retail stores, airports, convention centers, casinos, industrial buildings and offices.

The HA9 is compatible with most safety and activation devices, and can be integrated with building access & security systems. Some of the built-in safety features include lock kick for positive latch during fire/safety events, stop on stall, reverse on obstruction, and sensor monitoring.

Available in push or pull, clear or dark bronze for single, pair or dual egress configurations.

Complies with the following standards.

ANSI/BHMA A156.19, UL325/UL10C.

Product features

| Quiet Operation |
| Power Assist |
| One Touch Learn Cycle |
| Plug–n–Play design for fast trouble free installation |
| Stack Pressure Compensation; adapts to environmental conditions |
| Electric Strike Integration |
| Lock Retry |
| Sync cable for pairs of doors |

HA9 Profile

Arms

Push Arm

Pull Arm
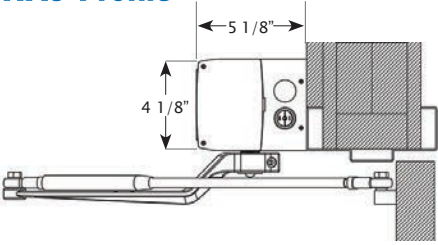
Technical Specs/Data

Header Size	4 1/8" x 5 1/8"
Motor Type	Electro–Mechanical
Door Width	Up to 48"
Microprocessor Control	Yes
On/Off/Hold Open Switches	Standard (key switch optional)
Operating Voltage	120 VAC
Push & Go Feature	Standard (selectable)
Auxiliary Power Output	24 VDC @ 1/2 amp (optional upgrade to 1.1 amps)
Additional inputs/outputs for extra functions (sensors, electric locks, mode switches, etc)	Yes
Push Reveal	Up to 14"
Pull Reveal	Up to 2 3/8"

Technical data subject to change without notice.

www.recorddoors.com

Standard Features:

» Surface Mounted

» Non-handed

» Push or Pull

» Single or Pair Doors

» Clear or Dark Bronze

» Available as a EZ36 kit

ML2000 Series
Mortise Locksets

Product Catalog

Corbin Russwin®
ASSA ABLOY

Experience a safer
and more open world

Table of Contents

www.corbinrusswin.com

Quality

The ML2000 Series is a Grade 1 mortise lock designed to meet the rigors of high-traffic commercial, institutional, industrial and government applications. Constructed of heavy-gauge steel, the lockbody features our patented Quick Reversible latchbolt, and a 1" stainless steel deadbolt. A wide variety of trim designs and functions and a 10-year warranty lend to the ML2000's versatility and reliability, making it the ideal choice for use in offices, schools, hospitals, hotels and other high-use applications.

Security

Further discourage intrusion and abuse with the ML2000VR (Vandal Resistant) series mortise lock. This lock features vandal-resistant stainless steel escutcheons with tapered edges and Torx® pin tamper resistant screws. When matched with Corbin Russwin patented high-security cylinders, any door can become a formidable barrier to intruders.

Flexible

The ML2000 Series has a multi-function capability, allowing 12 functions to be configured from one lockbody. The ML2054 entrance function (ANSI F04) uses a universal lockbody with the ability to reconfigure into other functions without dissembling the lock case.

Aesthetics

Complement any application with the full range of trim designs and finishes offered with ML2000 Series. From stainless steel security trims to bright brass Vineyard™ levers, design continuum can be achieved without forfeiting aesthetics. For additional information regarding designer trim, see the Corbin Russwin Vineyard™ Collection and Muséo® Collection catalogs.

Key Advantages

- Patented Quick Reversible feature enables reversal of hands without disassembling the lock case (Patent pending and/or patent www.assaabloydss.com/patents)
- Security trims provide a vandal-resistant barrier
- Can be used with new or existing Corbin Russwin key systems. Also accepts cylinders of most other manufacturers.
- Provides life safety and security in a single door prep, saving the additional cost of a deadlock
- Thru-bolted trim designs for proper alignment and increased security
- Multi-function lockbody
- Status indicator options provide peace of mind on the locked/unlocked status of a door
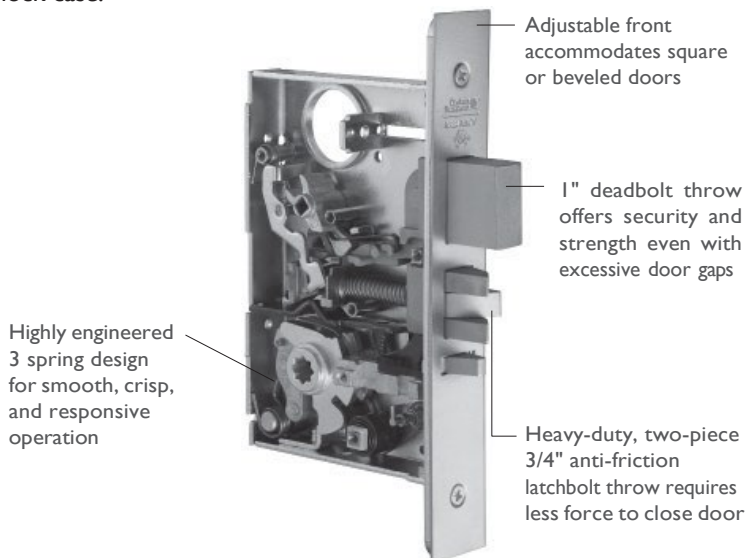
Adjustable front accommodates square or beveled doors

1" deadbolt throw offers security and strength even with excessive door gaps

Highly engineered 3 spring design for smooth, crisp, and responsive operation

Heavy-duty, two-piece 3/4" anti-friction latchbolt throw requires less force to close door

Features

Handing
Handed; quick reversible. The lockset can be re-handed without disassembling the lock case; see page 87.

Door Thickness
1-3/4" (44mm) standard.
Optional door thicknesses available; see Quick Codes, page 81.

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

Lockcase
Heavy-gauge steel, 5-7/8" (149mm) x 4" (102mm) x 15/16" (24mm).
Optional: non-ferrous lockcase for corrosion resistance; see Quick Codes, page 81.

Front
Heavy-gauge steel, 8" (203mm) x 1-1/4" (32mm) x -3/32" (2mm). Accommodates flat doors and doors beveled 1/8" (3mm) in 2" (51mm). Furnished 1-1/16" (27mm), optional D138, wide for 1-3/8" (35mm) doors.

Armored Front
Wrought brass, bronze or stainless steel attached by machine screws to lockcase front. ML2000VR utilizes security Torx® screws.

Latchbolt
2-piece mechanical with anti-friction insert, 5/8" (16mm) x 1" (25mm) x 3/4" (19mm) throw.

Auxiliary Latchbolt
9/16" (14mm) effective throw and 3/8" (10mm) effective auxiliary latch deadlocking.

Deadbolt
One-piece stainless steel, 19/32" (15mm) x 1-1/4" (32mm) x 1" (25mm) throw.

Indicators
Status indicators available in sectional or escutcheon trim with many options providing clarity of the locked/unlocked status of a door.

Hub
- Knob: stainless steel, 9/32" (7mm) x 9/32" (7mm).
- Lever: steel, 5/16" (8mm). (Including ⓥⓡ)

Spacing
C. to c. knob/lever to cylinder: 3-5/8" (92mm).
C. to c. knob/lever to thumbturn: 2-7/16" (62mm).

Strike
Wrought brass, bronze or stainless steel, ANSI straight lip standard, 4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center. Optional strikes, lip lengths and ANSI wrought strike box available; see Quick Codes, page 81.

Cylinder
Brass, 6-pin, L4 keyway, 0-bitted standard. Optional cylinders available; see Quick Codes, page 73.

Keys
Two nickel silver standard.

Keying Features Available
Master keying
Construction master keying
Visual key control
Concealed key control
Plug only to show (concealed shell)
7-pin cylinder
Security cylinder
Access 3® cylinder
Pyramid cylinder
Interchangeable core (IC)
Security IC
Pyramid IC
Access 3® IC
Master ring cylinder
Flex head cylinder

Warranty
Ten-year limited.

Certification/Compliance

ANSI/BHMA
Certified A156.13 Series 1000, Operational and Security Grade 1. Meets A117.1 Accessibility Code.

UL/cUL-UL10C Positive Pressure
All locks listed for A label and lesser class doors, 4' (122cm) x 10' (305cm) single or 8' (244cm) x 10' (305cm) pair (3 hour fire door). Letter F and UL symbol on armored front indicate listing.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Corbin Russwin, Inc. makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire-rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

California State Reference Code
(Formerly Title 19, California State Fire Marshal Standard)
All levers with returns, return to within 1/2" (13mm) of door face.

Windstorm/Hurricane
Certified (refer to local codes).

ⓥⓡ Indicates ML2000VR (Vandal Resistant)

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A01	A01	ML2002	Classroom Intruder	• Latchbolt by grip either side, unless outside grip is locked by key either side. • Outside grip locked or unlocked by cylinder either side. • Auxiliary latch deadlocks latchbolt. • Inside grip always free.

A01

ML2003 — Classroom

• Lock or unlock outside grip by key.
• Latchbolt by grip either side, unless outside grip is locked.
• Inside grip always free.
• Auxiliary latch deadlocks latch.

A01

ML2010 (F01) — Passage or Closet

• Latchbolt by grip either side.
• Both grips always free.

ML2012 (F16) — Deadlock

• Deadbolt by key either side.
Note: Indicators available for sectional trim only.

A01   A01

ML2013 (F17) — Deadlock

• Deadbolt by key outside or by thumbturn grip inside.
Note: Indicators available for sectional trim only.

A01

ML2017 (F29) — Classroom Deadlock

• Deadbolt by key outside.
• Thumbturn grip inside retracts deadbolt only; will not project deadbolt.

A01

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	ML2020 (F02)	Privacy Bedroom or Bathroom	• Latchbolt by grip* either side, when deadbolt is retracted. • Deadbolt by thumbturn grip inside or by emergency release tool outside. • No simultaneous deadbolt and latch retraction. • Non-panic release. • Not available with M19S or M19SN.
A01	A01 ML2022 (F14)	Store Door	• Latchbolt by grip* either side when deadbolt is retracted. • Deadbolt by key either side. • Latchbolt retracted by key either side. • Non-panic release. • No simultaneous deadbolt and latch retraction.
A01	ML2024 (F21)	Entrance or Storeroom	• Latchbolt by grip* either side when deadbolt is retracted. • Deadbolt by key outside or by thumbturn grip inside. • Latchbolt retracted by key outside. • Non-panic release. • No simultaneous deadbolt and latch retraction.
	ML2030 (F19)	Privacy Bedroom or Bathroom	• Latchbolt by grip either side unless outside grip locked by thumbturn. • Deadbolt by thumbturn grip inside or by emergency release tool outside. • Inside grip simultaneously retracts latchbolt and deadbolt and unlocks outside grip. • Not available with M19S or M19SN.
A01	A01 ML2032 (F30)	Institution or Utility	• Latchbolt by key either side. • Both grips always rigid. • Auxiliary latch deadlocks latchbolt. Note: This function does not allow free egress and can pose a life safety hazard in event of an emergency. Installation should be in accordance with approved codes only.
A01	A02 ML2042 (F09)	Entrance or Public Restroom	• Latchbolt by grip either side, unless outside grip is locked by key from inside. • Latchbolt by key outside when outside grip is locked. • Auxiliary latch deadlocks latchbolt. • Inside grip always free.
A01	ML2048 (F08/F10)	Entrance or Apartment	• Latchbolt* by key outside or by grip either side, unless outside grip is locked by toggle-action stop. • Deadbolt by key outside or by thumbturn grip inside. • Inside grip free when deadbolt is retracted. • Non-panic release. • No simultaneous deadbolt and latch retraction. Note: Indicator shows deadbolt position only.

Indicator options available for both sectional and escutcheon trim.

Cylinder cam required.

Indicates rigid grip.

* When lever handles are furnished, both outside and inside are locked when deadbolt is projected.

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Features

Handing
Handed; quick reversible. The lockset can be re-handed without disassembling the lockcase.

Door Thickness
1-3/4" (44mm) standard. Optional door thicknesses available; see Quick Codes, page 81.

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

Lockcase
Heavy-gauge steel, 5-7/8" (149mm) x 4" (102mm) x 15/16" (24mm).

Front
Heavy gauge steel, 8" (203mm) x 1-1/4" (32mm) x 3/32" (2mm).
Accommodates flat doors and doors beveled 1/8" (3mm) in 2" (51mm).

Armored Front
Wrought brass, bronze or stainless steel attached by machine screws to lockcase front.

Latchbolt
2-piece mechanical anti-friction insert, 5/8" (16mm) x l" (25mm) x 3/4" (19mm) throw.

Auxiliary Latchbolt
9/16" (14mm) effective throw and 3/8" (10mm) effective auxiliary latch deadlocking.

Hub
• Knob: stainless steel, 9/32" (7mm) x 9/32" (7mm).
• Lever: steel, 5/16" (8mm). (Including ⓇR)

Spacing
C. to c. knob/lever to cylinder: 3-5/8" (92mm)
C. to c. knob/lever to thumbturn: 2-7/16" (62mm).

Strike
Wrought brass, bronze or stainless steel ANSI straight lip standard, 4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center. Optional strikes, lip lengths and ANSI wrought strike box available; see Quick Codes, page 81.

Trim
Available with all ML2000 Series trim designs including the Vineyard™ Collection and the Muséo® Collection. See pages 20-62.

Cylinder
Brass, 6-pin, L4 keyway, 0-bitted standard. Optional cylinders available; see Quick Codes, page 73.

Keys
Two nickel silver standard.

Warranty
Ten-year limited warranty on ML2000 mortise lockset. Two-year limited warranty on electronic components.

Electrical Specifications
(Fail Safe/Fail Secure)
12/24VDC @ 15mA Continuous
12/24VDC Peak current draw = .5A
(Maximum of 2 locks per 1A Power Supply)
Monitor Switch Rating: 2 amp @ 24VDC
Note: Operating voltage not to exceed +/- 10%.
See Quick Codes, page 83.

Environmental Specifications
Operating Temperature
-13°F (-25°C) to 151°F (66°C)
Operating Humidity
5% to 95% relative humidity non-condensing

Monitor Options - ML2000 and ML20900 ECL Only

M91 - Latchbolt Monitor
Latchbolt monitoring is a SPDT switch which monitors the full extension of the main latch. Note: See page 83 for available functions.

M92 - Request to Exit Monitor
Request to Exit monitoring is a SPDT switch which monitors the activation of the trim. (Both levers activate switch) Note: See page 83 for available functions.

M105 - Security Monitor
Security Monitor is two switches in series that monitors lock status (locked or unlocked) and Auxiliary Latch position. Note: Monitoring options may only be ordered together as follows: M91xM92, M92xM105. See page 83 for available functions.

Monitor Options – ML20600 NAC only

Internal End-of-Line Monitoring
Monitors the line from the access control panel to the lock, eliminating the risk of undetected tampering or damage.

PHR - Deadbolt Privacy Function
Engaging deadbolt disables remote access control unlocking (keypad or card reader) or scheduled unlock.

Certification/Compliance

ANSI/BHMA
Certified A156.13 Series 1000, operational and security Grade 1. Meets A117.1 Accessibility Code.

BHMA CERTIFIED

UL/cUL
All locks listed for A label and lesser class doors, 4' x 10' single or 8' x 10' pair. Letter F and UL symbol on armored front indicate listing. Meets requirements of UL1034.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Corbin Russwin, Inc. makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire- rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

California State Reference Code
(Formerly Title 19, California State Fire Marshal Standard)
All levers with returns comply; levers return to within 1/2" of door face.

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ML2000.12

45300 01/21

ML20900 ECL Series
Electrified Mortise Lockset

Simplicity
Combine simplicity and access control with the Corbin Russwin ML20900 ECL series electrically controlled mortise lock. Utilizing the proven ML2000 Series mortise lockset with the patented quick reversible latchbolt, the ML20900 series provides remote locking and unlocking. The electrified lock can be installed in a standard mortise prep with slight modification by door manufacturer. The ML20900 ECL is ideal for use where increased security is necessary at all times, such as tenant space, pharmacies, computer rooms, and high security areas.

Security
In applications where increased security is required, look no further than the ML2000VR Vandal Resistant Trim. This cast stainless steel trim features tapered edges, double through bolts, torx-pin tamper resistant screws and the lever remains attached to the escutcheon when the spindle is broken.

Aesthetics
Access control doesn't mean a loss of visual appeal. The Vineyard™ Collection and the Muséo® Collection feature beautifully designed levers, perfect for high-profile applications where pleasing aesthetics is a must.

Additional Features
• Mechanical key override
• Patented Quick Reversible latchbolt (Patent pending and/or patent www.assaabloydss.com/patents.)
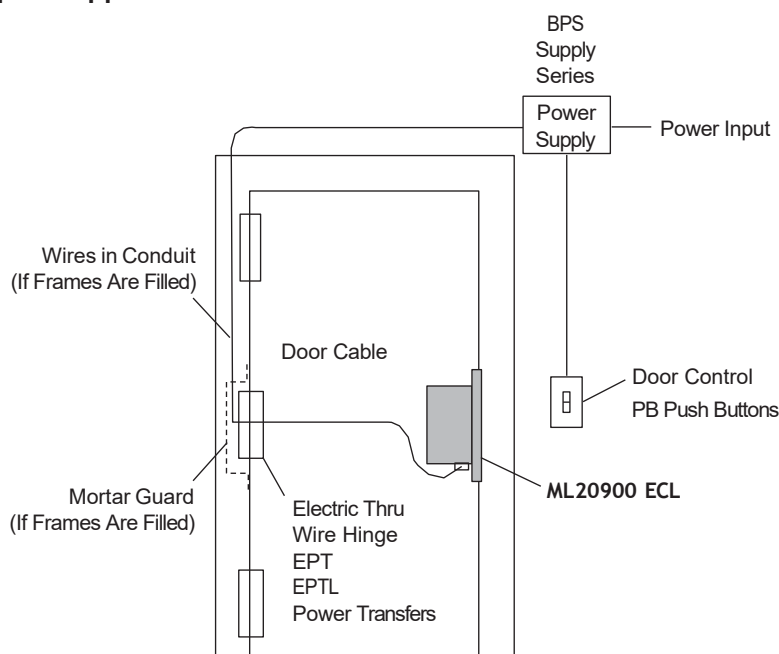
Featuring EcoFlex® Technology:
• Reduces energy consumption up to 96%, as certified by GreenCircle
   – Lower operating costs
   – Assists with load reduction in optimizing energy performance credit in LEED
   – Reduces number of power supplies required
• Field configurable to fail-safe or fail-secure
• Operates from 12-24VDC, offering greater flexibility in system design
• Innovative actuator design provides superior reliability
   – Higher performance and reduced maintenance
   – Ability to have longer cable runs without negatively impacting lock function
   – Reduces risk of voltage drops and eliminates inductive kickback
   – Lower total cost of ownership

Note: EcoFlex Technology is not available with master ring cylinders. Solenoid provided.

Typical Application

BPS Supply Series
Power Supply — Power Input
Door Control
PB Push Buttons
ML20900 ECL
Wires in Conduit (If Frames Are Filled)
Door Cable
Mortar Guard (If Frames Are Filled)
Electric Thru Wire Hinge
EPT
EPTL
Power Transfers

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ML2000.13

Tower Stairwell

BPS
To Fire Alarm ← Power Supply — 115VAC Input
Wires in Conduit (If Frames Are Filled)
2 x 18AWG
ML20906 Electric Mortise Lock
Wire Transfer Hinge EPT EPTL
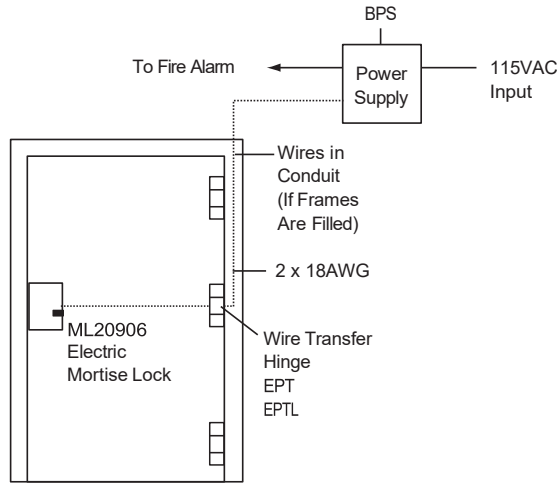
Operation:
Free egress at all times. Door is locked at all times preventing entry from the stairwell to a floor. Fire alarm activation will allow re-entry from the stairwell to the floor. Power failure will allow re-entry from the stairwell to the floor.

Access Control on Employee Entrance
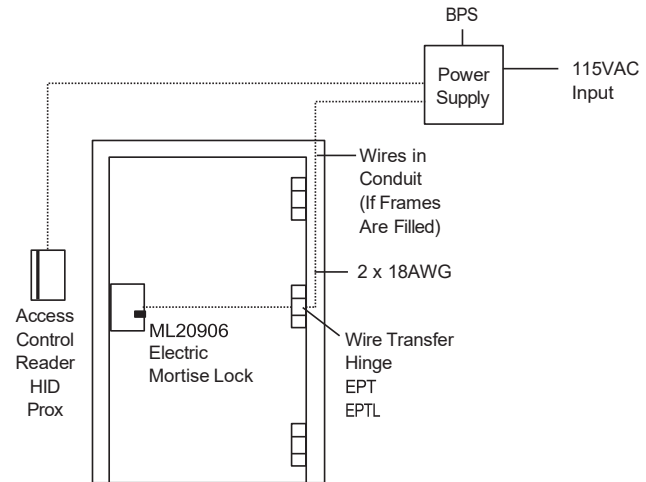
BPS
Power Supply — 115VAC Input
Wires in Conduit (If Frames Are Filled)
2 x 18AWG
Access Control Reader HID Prox
ML20906 Electric Mortise Lock
Wire Transfer Hinge EPT EPTL

Operation:
Free egress at all times. Door is locked at all times preventing unauthorized entry. Authorized entry is permitted by presenting a valid user card.

ElectroLynx®, a system of universal Molex® plug-in connectors and standardized color-coded wiring, makes installing electrified doorway components a snap!

Controlled Entry With Alarm

BPS
Power Supply — 115VAC Input — Alarm Horn
Wires in Conduit
(If Frames Are Filled)
2 x 18AWG
6 x 22AWG
Access Control Reader HID Prox
ML20906 x M91 x M92 Electric Mortise Lock
Wire Transfer Hinge EPT EPTL
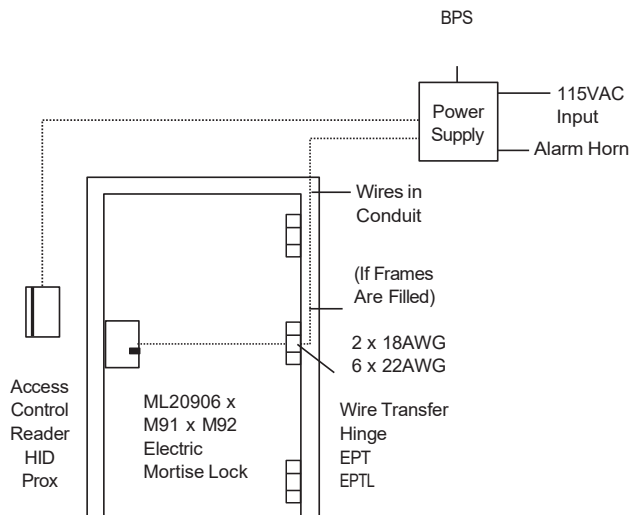
Operation:
Free egress at all times. User exits through the door which triggers the M92 switch which shunts the alarm. Door is locked at all times preventing unauthorized entry. Authorized entry is permitted by presenting a valid user card. Forced entry will trigger M91 switch and activate alarm. Alarm is deactivated by a valid user card.

Lock Schematics

Power Leads

Red +
Black -
AC/DC
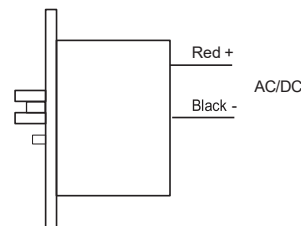
Power Leads x M92 (Request to Exit)

Red +
Black -
AC/DC
C
NO
NC
White
Green } M92
Orange
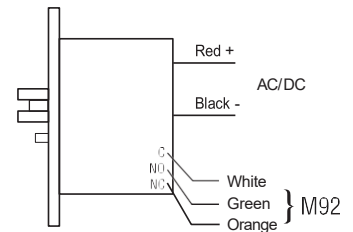
Power Leads x M91 (Latchbolt Monitor)

C
NO
NC
Red +
Black -
Blue
Brown
Yellow
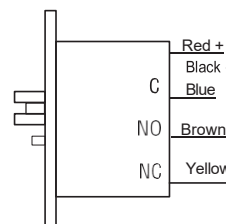
Power Leads x M105 (Security Monitor)

C
NC
NO
Red +
Black -
Blue
Brown
Yellow
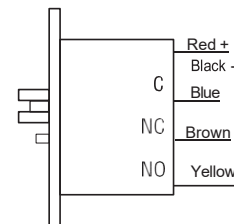
Consult factory for electrical system layouts, riser and wiring diagrams.
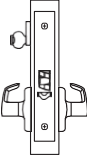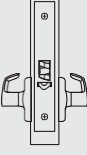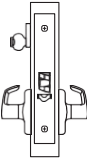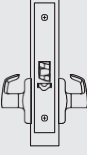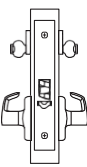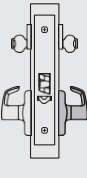
Fail Safe

The following functions are unlocked when power is off and locked when the power is on.

Outside	Inside	Series/Function	Description
A01		ML20906 x SAF	• Latchbolt by grip either side, unless outside grip is locked by energizing lock. • Latchbolt by key outside when lock is energized. • Inside grip always free. • Auxiliary latch deadlocks latchbolt.
		ML20907 x SAF	• Latchbolt by grip either side, unless outside grip is locked by energizing lock. • Inside grip always free. • Auxiliary latch deadlocks latchbolt.
A01		ML20914 x SAF	• Latchbolt by grip either side, unless both grips are locked by energizing lock. • Latchbolt by key outside when lock is energized. • Auxiliary latch deadlocks latchbolt.
		ML20915 x SAF	• Latchbolt by grip either side, unless both grips are locked by energizing lock. • Auxiliary latch deadlocks latchbolt.
A01	A01	ML20932 x SAF	• Latchbolt by grip either side, unless both grips are locked by energizing lock. • Latchbolt by key inside or outside when lock is energized. • Auxiliary latch deadlocks latchbolt.
A01	A01	ML20987 x SAF	• Latchbolt by grip outside, unless outside grip is locked by energizing lock. • Latchbolt by key both sides. • Inside grip always rigid. • Auxiliary latch deadlocks latchbolt. Notes: - This function does not allow free egress and can pose a life safety hazard in the event of an emergency. Installation should be in accordance with approved codes only. - Not available with L, R, or V escutcheon trim.

Indicates rigid grip.

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Newport

- Complies with codes requiring lever to return to within 1/2" (13mm) of door face.
- Brass, bronze or stainless steel
- Laser engraving option
  (See Custom Laser Engraving brochure)

NSA
Lever: Cast
Rose: Wrought

NSB
Lever: Cast
Rose: Cast

2-1/4 (57)
4-13/16 (122)
2-5/8* (67)
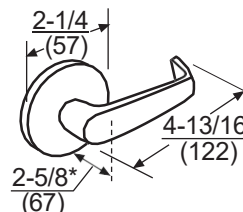
NSF
Lever: Cast
Rose: Cast

2-7/8 (73)
4-13/16 (122)
2-5/8* (67)
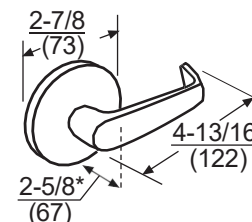
*Dimension from face of door, not surface of rose or escutcheon.

Applications

ML2000 Series indicators can be used in a variety of applications and are most commonly used to identify occupancy or display the locked/unlocked status of a room.

- Restrooms
- Quiet rooms
- Nursing mother's rooms
- Classroom doors

Features

- Inside, outside or both sides of the door
- Sectional or escutcheon trim
- Available with 27 different functions – including thumbturn functions
- Viewing window 25% larger than competition
- Patent pending curved design for viewing at multiple angles
- Window located prominently above the cylinder
- Highly reflective viewing window for increased safety
- Optional directional engraving available – must specify handing
- Retrofitable for existing applications

Functions

Indicators are available with the following ML2000 and ML20600 Series functions.

ML2002, ML2003, ML2011, ML2012, ML2013, ML2017, ML2020, ML2022, ML2024, ML2029, ML2030, ML2048, ML2049, ML2059, ML2060, ML2062, ML2065, ML2067, ML2068, ML2069, ML2072, ML2073, ML2075, ML2082, ML2092, ML20608 x NAC x SEC x PHR, ML20609 x NAC x SEC x PHR

See pages 4-9 & 19 for details.

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Indicator Option Codes

ML2000 Series indicator option codes are designed to convey wording, color and side of door desired in one simple code. To order, specify option code for complete locksets and/or retrofit/upgrade trim kits.

Single Indicator			
Option Code	Outside Wording	Inside Wording	Color
V10	Unlocked/Locked	No Indicator	Green/Red
V20	Vacant/Occupied	No Indicator	Green/Red
V30	Icons Only	No Indicator	Green/Red
V40	Unlocked/Locked	No Indicator	White/Red
V50	Vacant/Occupied	No Indicator	White/Red
V60	Icons Only	No Indicator	White/Red
V01	No Indicator	Unlocked/Locked	Green/Red
V03	No Indicator	Icons Only	Green/Red
V04	No Indicator	Unlocked/Locked	White/Red
V06	No Indicator	Icons Only	White/Red
Double Indicator			
Option Code	Outside Wording	Inside Wording	Color
V11	Unlocked/Locked	Unlocked/Locked	Green/Red
V21	Vacant/Occupied	Unlocked/Locked	Green/Red
V33	Icons Only	Icons Only	Green/Red
V44	Unlocked/Locked	Unlocked/Locked	White/Red
V54	Vacant/Occupied	Unlocked/Locked	White/Red
V66	Icons Only	Icons Only	White/Red
Engraving			
Option Code	Outside	Inside	Wording
EMA	Engraving	No Engraving	"Lock" with arrow
EMB	No Engraving	Engraving	"Lock" with arrow
EMC	Engraving	Engraving	"Lock" with arrow

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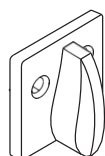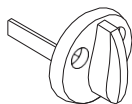
Standard Thumbturn

Cast brass or bronze. Standard on functions utilizing thumbturn. Sectional Trim.
Turn Size: 1-1/4" (32mm)
Spindle Size: 3/16" (5mm)
Plate Size: 1-3/8" (35mm)
Surface screw mounted To order separately, see table.

- Available with Standard, Muséo and Vineyard levers
- Rose design will designate shape of thumbturn backplate
  - E2, E3 and E4 roses - square backplate

Door	Packet	
	Round	Square
1-3/8" (35mm)	519F09 x FIN	814F10 x FIN
1-3/4" (44mm)	519F10 x FIN	814F11 x FIN
2-1/4" (57mm)	519F11 x FIN	814F12 x FIN
Up to 4" (102mm)	581F96 x FIN	814F13 x FIN
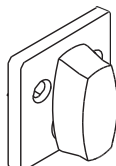
Decorative Thumbturn MT1*

Cast bronze or stainless steel. Used on functions utilizing a thumbturn. Sectional trim only.
To order with lock and trim, specify Quick Code MT1. To order separately, see table.
Turn Size: 1-3/10" (33mm)
Plate Size: 1-1/2" (38.1mm)

- Available with Standard, Muséo and Vineyard levers
- Rose design will designate shape of thumbturn backplate
  - Round roses - round backplate
  - E2, E3 and E4 roses - square backplate

Door	Packet	
	Round	Square
1-3/8" (35mm)	723F70M x FIN	723F71M x FIN
1-3/4" (44mm)	723F76M x FIN	723F77M x FIN
2-1/4" (57mm)	723F88M x FIN	723F89M x FIN
Up to 4" (102mm)	723F82M x FIN	723F83M x FIN
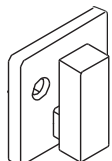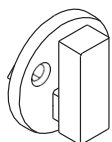
Decorative Square Thumbturn MT2*

Cast bronze or stainless steel. Used on functions utilizing a thumbturn. Sectional trim only.
To order with lock and trim, specify Quick Code MT2. To order separately, see table.
Turn Size: 1-3/10" (33mm)
Plate Size: 1-1/2" (38.1mm)

- Available with Standard, Muséo and Vineyard levers
- Rose design will designate shape of thumbturn backplate
  - Round roses - round backplate
  - E2, E3 and E4 roses - square backplate

Door	Packet	
	Round	Square
1-3/8" (35mm)	723F72M x FIN	723F73M x FIN
1-3/4" (44mm)	723F78M x FIN	723F79M x FIN
2-1/4" (57mm)	723F90M x FIN	723F91M x FIN
Up to 4" (102mm)	723F84M x FIN	723F85M x FIN

*Not available with M19VN indicator.

Strikes

ANSI Straight Lip (standard)
Brass or stainless steel
Non-handed
4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center (standard)
Optional lip lengths: 7/8" (22mm), 1" (25mm), , 1-1/8" (29mm), 1-1/4" (32mm), 1-3/8" (35mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), 2-3/4" (70mm), 3" (76mm)

ANSI Curved Lip
Brass or stainless steel
Handed
4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/4" (32mm) lip to center (standard)
Optional lip lengths: 1-1/8" (29mm), 1-3/8" (35mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), 2-3/4" (70mm), 3" (76mm)

ANSI Wrought Strike Box
To order with lockset, see Quick Codes, page 81.
To order separately, specify 120F76.
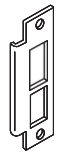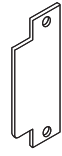
Open Back
Size: 5-1/4" (133mm) x 1/4" (32mm).

Hand	Door Thickness	Part
RHR	1-3/4" (44mm)	411L62 016
	2" (51mm)	411L62 018
	2-1/4" (57mm)	411L62 020
LHR	1-3/4" (44mm)	411L63 016
	2" (51mm)	411L63 018
	2-1/4" (57mm)	411L63 020

To order with lockset, see Quick Codes, page 81. To order separately, specify Part No. x Door Thickness x Finish (e.g., 411L62 x 2" x 626).

Note: Only Available with ML2000

LH Shown
All Functions

	Part No.	Description
	236L72	Straight Lip
	340L60	Curved Lip for RH/LHR
	340L61	Curved Lip for LH/RHR
	236L70	Straight Lip

Blank Filler Plate
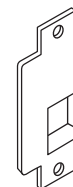
To order strike with lockset, see How to Order, page 77.
To order strike separately, specify Part No. x Lip Length x Finish (e.g., 340L60 x 1-1/2" x 626).

Rabbeted Front and Strike
Brass or bronze
For 1/2" (13mm) rabbet
No optional lip lengths

	Part No.	Hand
Latchbolt x Deadbolt	318F66 318F69	RH/LHR LH/RHR
Latchbolt only	318F64 318F67	RH/LHR LH/RHR
Deadbolt only	318F65 318F68	RH/LHR LH/RHR

To order with lockset, see Quick Codes, page 81.
To order separately, specify Part No. x Finish (e.g., 318F66 x 626).
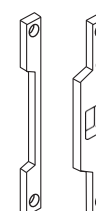
Indicator Options

Description	Specify
Single Indicator Outside - Unlocked/Locked - Green/Red	V10
Single Indicator Outside - Vacant/Occupied - Green/Red	V20
Single Indicator Outside - Icons Only - Green/Red	V30
Single Indicator Outside - Unlocked/Locked - White/Red	V40
Single Indicator Outside - Vacant/Occupied - White/Red	V50
Single Indicator Outside - Icons Only - White/Red	V60
Single Indicator Inside - Unlocked/Locked - Green/Red	V01
Single Indicator Inside - Icons Only - Green/Red	V03
Single Indicator Inside - Unlocked/Locked - White/Red	V04
Single Indicator Inside - Icons Only - White//Red	V06
Double Indicator - Unlocked/Locked - Green/Red (Outside) Unlocked/Locked - Green/Red (Inside)	V11
Double Indicator - Vacant/Occupied - Green/Red (Outside) Unlocked/Locked - Green/Red (Inside)	V21
Double Indicator - Icons Only - Green/Red (Outside) Icons Only - Green/Red (Inside)	V33
Double Indicator - Unlocked/Locked - White/Red (Outside) Unlocked/Locked - White/Red (Inside)	V44
Double Indicator - Vacant/Occupied - White/Red (Outside) Unlocked/Locked - White/Red (Inside)	V54
Double Indicator - Icons Only - White/Red (Outside) Icons Only - White/Red (Inside)	V66
Single Indicator Outside - Secure/Unsecure - Green/Red (Sectional trim only)	M19S
Single Indicator Outside - Vacant/Occupied - Green/Red (Sectional trim only)	M19V
Single Indicator Inside - Secure/Unsecure - Green/Red (Sectional trim only)	M19N
"Double Indicator - Secure/Unsecure - Green/Red (Outside) Secure/Unsecure - Green/Red (Inside) (Sectional trim only)"	M19SN
"Double Indicator - Vacant/Occupied - Green/Red (Outside) Secure/Unsecure - Green/Red (Inside) (Sectional trim only)"	M19VN
Hotel Indicator - Only Available for ML2029	M19
Outside Engraving with "Lock" and Directional Arrow	EMA
Inside Engraving with "Lock" and Directional Arrow	EMB
Engraving Both Sides with "Lock" and Directional Arrow	EMC

Note: Contact Customer Service for other available or custom configurations

Handing

Hand	Specify
Right Hand	RH
Left Hand	LH
Right Hand Reverse	RHR
Left Hand Reverse	LHR

Electric Monitor Options (ML2000/ML20900 Series Only)

Description	Specify
Latchbolt Monitor	M91
Request to Exit	M92
Security Monitor	M105

These options may be ordered together only as follows:
M91xM92, M92xM105.

Panel Applications
(Material added to the door face, increasing the overall door thickness)

Description	Specify
Centerline of lockcase to edge of panel not to exceed 2"	PNL

- Panel Application option code can only be used with 1 3/4" thick door with lock centered in door.
- You must specify the thickness of the panel and which side of the door the panel will be applied.
- All other applications require Special Product Application request.

Electric Accessories

Description	Specify
Power supply 1.0 Amp @ 12 VDC output	BPS-12-1
Power supply 3.0 Amp @ 12 VDC output	BPS-12-3
Power supply 1.0 Amp @ 24 VDC output	BPS-24-1
Power supply 2.0 Amp @ 24 VDC output	BPS-24-2
Power supply 4.0 Amp @ 24 VDC output	BPS-24-4

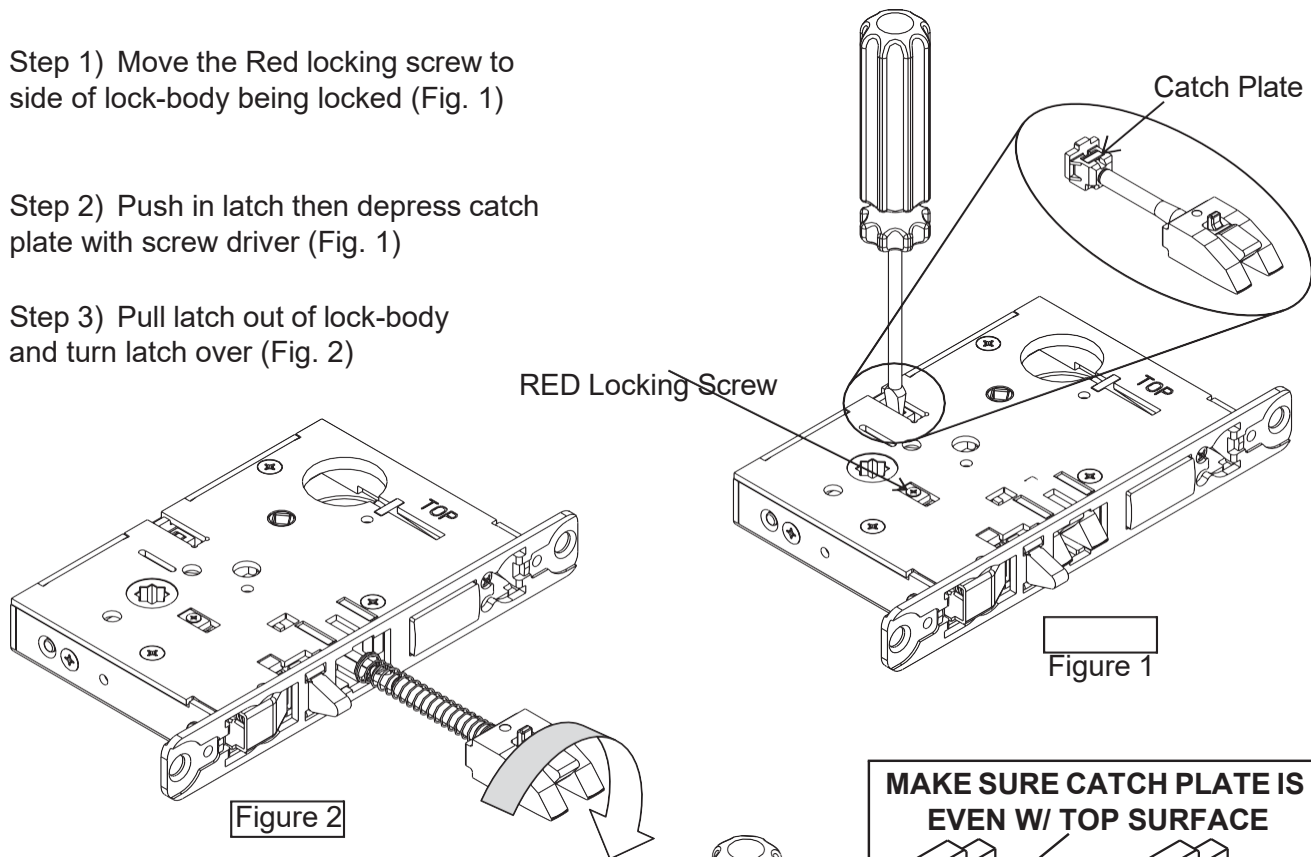**Instructions for reversing the hand of the ML2000 Series.**

Step 1) Move the Red locking screw to side of lock-body being locked (Fig. 1)

Step 2) Push in latch then depress catch plate with screw driver (Fig. 1)
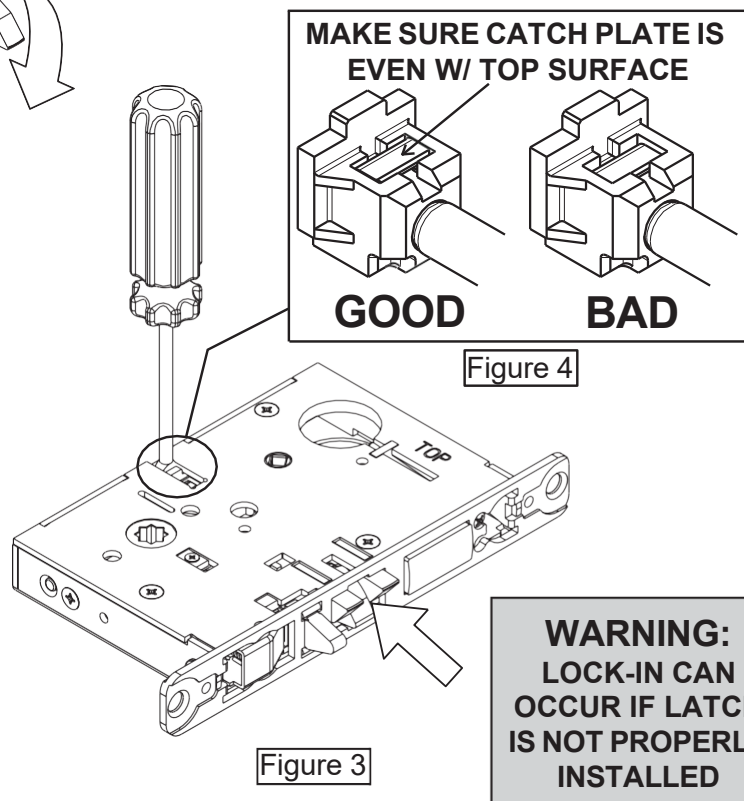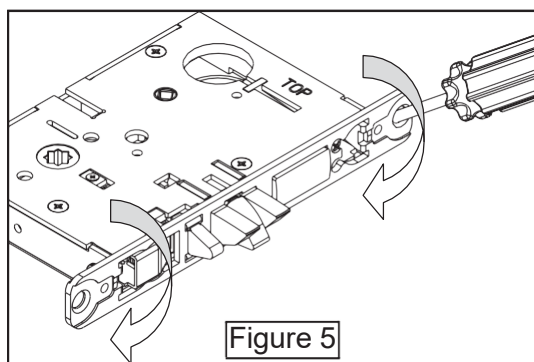
Step 3) Pull latch out of lock-body and turn latch over (Fig. 2)

Catch Plate

RED Locking Screw

Figure 1

Figure 2

Step 4) Push in latch while holding screw driver behind latch tail (Fig. 3)

Note: Push in latch until catch plate is no longer depressed (Fig. 4)

Step 5) Rotate lock front to match bevel of door as shown (Fig. 5)

MAKE SURE CATCH PLATE IS EVEN W/ TOP SURFACE

GOOD   **BAD**

Figure 4

Figure 5

Figure 3

WARNING:
LOCK-IN CAN OCCUR IF LATCH IS NOT PROPERLY INSTALLED

Experience a safer and more open world

Push/Pull Paddle Trim (HPSK)
Specialty Hardware

BENEFITS

- **Beautiful:** sleek, aesthetic form aligns with evidence-based design approach to healing environments; optional "push" and "pull" indicators incorporated in paddle design
- **Strong and durable:** ANSI/BHMA Grade 1 certified locks withstand abusive environments
- **Flexible:** non-handed with multiple mounting orientations
- **Easy Open:** paddle shape and location creates a quick reference point for door activation without using hands
- **Low-touch:** Corbin Russwin Push/Pull Trim is part of a continuum of Safer2Open™ low-touch and touchless door hardware solutions from ASSA ABLOY

APPLICATIONS

- Patient Room Doors
- Assisted Living Facilities
- Rehabilitation Centers

Mortise Lock Features:

- Standard mortise door prep
- Available with 40 ML2000 Series mechanical functions
- Electrified (fail safe and fail secure) functions available
- UL Listed for use with Fire Rated doors
- ANSI/BHMA Grade 1 certified; ADA compliant

Tubular Lock Features:

- Available in 2-3/4", 5" and 7" backsets
- Passage (HP3010) and privacy (HP3020) functions
- UL Listed for use with Fire Rated doors
- ANSI/BHMA Grade 1 certified; ADA compliant

ML2000 Series

HP3000 Series

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®
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 Yale Security Inc., an ASSA ABLOY Group company.

The ASSA ABLOY Group is the global leader in access solutions. Every day we help people feel safe, secure and experience a more open world.

nexTouch®

Keypad Locks

ACCENTRA

ASSA ABLOY

nex**Touch**®

The fully modular design of ASSA ABLOY ACCENTRA™ nexTouch® allows users to easily upgrade to more advanced security technologies as their requirements grow and change.

Standalone Keypad

Great for restrooms, offices, storage closets and more, nexTouch® as a standalone keypad is easy to install, program, and manage access with PIN codes.

Data-on-Card

In new construction or retrofit projects for multi-family facilities, the data-on-card functionality of nexTouch® pairs with ASSA ABLOY ACCENTRA Accentra software for use with mobile credentials, key cards or fobs.
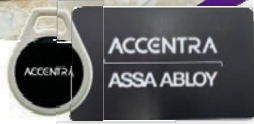
FEATURES & BENEFITS

Feature	Benefit
Choice of capacitive touchscreen or tactile pushbutton keypad	Touchscreen responds to human touch, enabling convenient entrance or access to programming menu. Pushbutton keypad option also available for more tactile requirements, such as ADA compliance.
Keyless entry and management	Reduces complexity of key system management
PIN code access	Installations are able to be programmed with up to 500 unique PIN codes and a master code for access to programming.
Modular technology	Allows for upgrade to more advanced security technologies with Data-on-Card as requirements change and grow.
Works with cloud-based management software	Single system enables use from anywhere with Internet access from a range of devices, including your computer, smartphone or tablet.
Audit trail	Lifetime audit trail stored within the software to know exactly who has accessed the lock when.
Voice-guided programming in 3 languages	Voice-guided prompts make updates straightforward and effortless in English, Spanish or French.
Three (3) volume modes	Playback can be set for normal, low or silent.
Privacy feature with Door Position Sensor	By holding the interior lock button down for 1.5 seconds, the exterior keypad is temporarily disabled ensuring complete privacy and no additional entry.
Weather resistant gasket seal	Lock is operational even in outdoor settings, in temperatures ranging from -40°F to 140°F (-40°C to 60°C) at 95% relative humidity.
Low battery indicator	Blinking designation signals internal 4 AA alkaline batteries are low.
9V battery power backup feature	With the touch of a 9V battery to the designated area on the front of the lock, your nexTouch® can be powered up for one-time entry.
Hardwire power capable	Can be powered externally using remote 9VDC power supply and plug-in wall transformer.
Keypad lockout feature	Deters tampering by disabling the keypad for a default of 180 seconds after five (5) successive failed attempts.

ACCENTRA
ASSA ABLOY

Hurricane   BHMA CERTIFIED®   UL   ♿

Capacitive Touchscreen

Weather Resistant Seal

Touchscreen as shown
when not activated

Lockout Mode

Low Battery Indication

9V Battery Power Backup

Optional Cylinder/Key Override

Privacy Button
DPS required

Touchscreen as shown
when activated

Voice-Guided Programming

Pushbutton Keypad Option Available

HOW TO ORDER

Cylindrical

Quantity	Lever Design	Series/Function	^Technology	Finish	Advanced Functions	Door Thickness	Cylinder	Latch	Strike
#	AU - Augusta MO - Monroe PB - Pacific Beach TB UB	NTB613 - Bored lock, key override, pushbutton keypad NTB623 - Bored lock, key override, capacitive touchscreen keypad NTB633 - Bored lock, no key override, pushbutton keypad NTB643 - Bored lock, no key override, capacitive touchscreen	NR - Keypad only, no radio	605 - Bright brass, clear coated 613E - Dark oxidized bronze - equivalent 626 - Satin chrome plated BSP - Black suede powder coat	*DPS	1-3/4" 1-3/8"	1803-53L - 6-pin cylinder standard, see pages 10-11 for additional options[1]	E694 latchbolt with 2-1/4" x 1-1/8" front, 2-3/4" backset and 1/2" bolt throw standard, see page 12 for additional options	497 ANSI strike standard, see page 13 for additional options

[1]When ordering SFIC and LFIC cylinders, please use appropriate prefix before lever selection. See page 11 for more information.

*Use DPS option code for Advanced Functions. An Auxiliary Door Position Sensor (DPS) must be installed with the lock to enable both Escape Return and Privacy functions. If DPS is not included in the parts string, the Door Position Sensor will not be supplied with the lock. Note that selecting the DPS option code will incur an upcharge. See current price list.
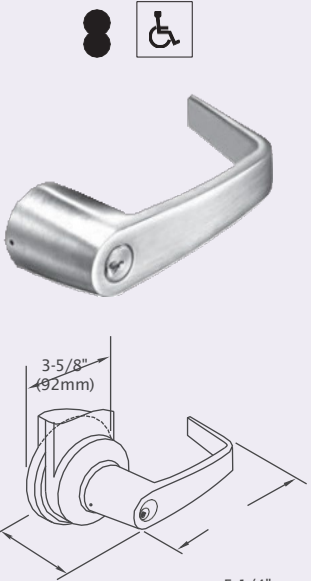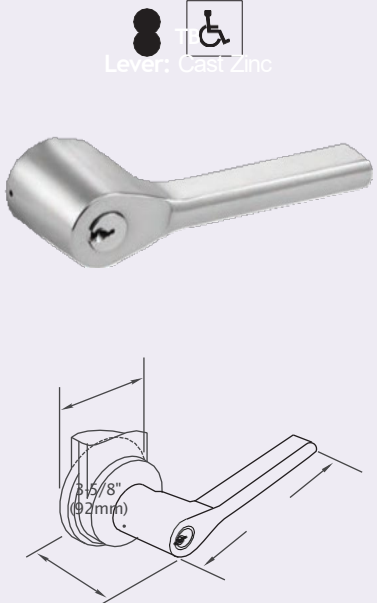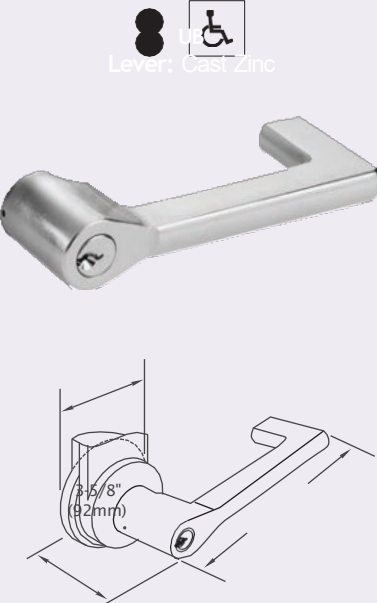
Build Your Order String

Quantity	Lever Design	Series/Function	^Technology	Finish	Advanced Functions	Door Thickness	Cylinder	Latch	Strike
Example:	AU	NTB613	NR	626	DPS	1-3/4"	1803-53L	694	497

^nexTouch® No Radio lock part numbers NTB613, NTB623, NTB633, & NTB643 can be upgraded for use with the ASSA ABLOY ACCENTRA™ Cloud platform by installing the ACCENTRA radio module available to all ASSA ABLOY ACCENTRA™ Multi Family Housing Certified Integrators. These part numbers can NOT be upgraded for use with a Z-Wave compatible system.

nexTouch® Keypad Locks

TRIM DESIGNS

ACCENTRA
ASSA ABLOY

Cylindrical

AUGUSTA AU **Lever:** Cast Zinc	MONROE MO **Lever:** Cast Zinc	PACIFIC BEACH PB **Lever:** Cast Zinc

3-5/8"
(92mm)

5-1/4"
(133mm)

3-5/16"
(84mm)

3-5/8"
(92mm)

4-5/8"
(117mm)

3-5/16"
(84mm)

3-5/8"
(92mm)

5-1/2"
(140mm)

3-5/16"
(84mm)

Lever: Cast Zinc

Lever: Cast Zinc

3-5/8"
(92mm)

3-5/8"
(92mm)

5-1/4"
(133mm)

5-1/8"
(130mm)

3-5/16"
(84mm)

2-1/2"
(61mm)

All levers available with small and large format interchangeable core. See page 11 for details.
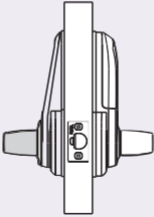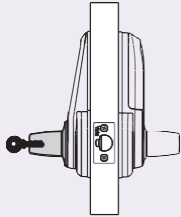
FINISHES

ANSI/BHMA Code Finish Description			
605 **Bright Brass, Clear Coated**	**613E** **Dark Oxidized Satin Bronze - equivalent**	**626** **Satin Chrome Plated**	**BSP** **Black Suede Powder Coat**

nexTouch® Keypad Locks

FUNCTIONS

Cylindrical

NTB633 Pushbutton NTB643 Touchscreen	NTB613 Pushbutton NTB623 Touchscreen

Without Cylinder Override
 • For doors that do not require mechanical key override.
 • Latchbolt retracted by lever outside with valid PIN code,
   or by operating lever inside.
 • Inside lever always active.
 • Deadlocking latchbolt.
	With Cylinder Override
	 • For doors that require mechanical key override.
	 • Latchbolt retracted by lever outside with valid PIN code;
	   by use of mechanical key, or by operating lever inside.
	 • Inside lever always active.
	 • Deadlocking latchbolt.

Outside Inside	Outside Inside

CYLINDERS

Cylindrical (Continued)

Levers Accepting SFIC And Other Manufacturers' Large Format Interchangeable Cores

Description	Lever Prefix	Number of Pins
SFIC (Accepts all Small Format Interchangeable Cores)	B (i.e. B-AU, B-MO, B-PB, B-TB, B-UB)	6 or 7
Corbin Russwin (LFIC)*	R (i.e. R-AU)	6
Medeco®, ASSA® (LFIC)**	M (i.e. M-AU)**	6
Sargent (LFIC)	SG (i.e. SG-AU, SG-PB)	6
Schlage® (LFIC)	SI (i.e. SI-AU, SI-PB)	6

*Corbin Russwin LFIC only available with AU lever, 6-pin only.
**Medeco®, ASSA® option available only with AU lever. (Note: For Medeco 32 series cores.)
LFIC = Large Format Interchangeable Core
SFIC = Small Format Interchangeable Core

108 Schlage® Cylinder Adapter Kit

Kit used to modify Schlage® cylinder to fit nexTouch®.

P/N 14-5305-0090-048 - 108S.

Kit includes tailpiece and sleeve. To order the 108S adapter kit, use an "S" prefix (i.e., S-AU x NTB613).

Schlage® Connecting Bar
P/N 14-5305-0096
Threaded Collar
Schlage® Cylinder
Adapter Sleeve
P/N 14-5407-9101
Cylinder Sleeve
14-5305-9078
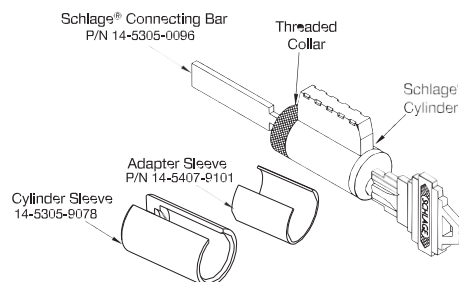
LATCHBOLTS

Cylindrical

Deadlocking Latchbolts

Model No. E694 supplied standard with all nexTouch® locksets. Model No. E694 latchbolt has a 2-1/4" x 1-1/8" front with a 2-3/4" backset and a 1/2" bolt throw. Optional latchbolts to special order.
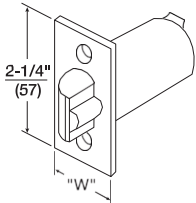
Model No.	Front	Backset	"W" Front Width	Throw	Latch Diameter
E694 (standard)	Beveled	2-3/4" (70mm)	1-1/8" (29mm)	1/2" (13mm)	1" (25mm)
F694	Flat	2-3/4" (70mm)	1-1/8" (29mm)	1/2" (13mm)	1" (25mm)
480B	Beveled	2-3/4" (70mm)	1-1/8" (29mm)	3/4" (19mm)	1" (25mm)
F480B	Flat	2-3/4" (70mm)	1-1/8" (29mm)	3/4" (19mm)	1" (25mm)
380N*	Flat	2-3/8" (60mm)	1" (25mm)	1/2" (13mm)	3/4" (19mm)

When ordering latchbolts separately, specify Model No. x Finish (e.g., E694 x 626).
*Using 380N latch results in Grade 2 ANSI/BHMA performance of the lock.

2-1/4" (57)

"W"

Cylindrical

ACCENTRA nexTouch® locksets are available with a variety of strike options. All strikes are located on the same vertical and horizontal center lines as the latchbolt. Some strikes are available in a variety of lip lengths to accommodate varying thickness of doors and frames. To determine the proper length of the lip, measure from the center line of the strike to the edge of the jamb and add 1/4" (6mm). All strikes are reversible.
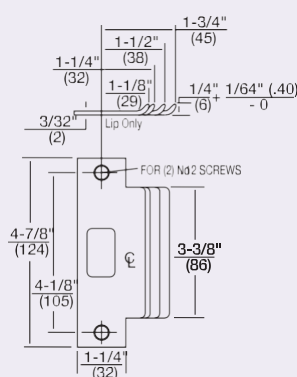
Model No. 497 ANSI Strike (Standard)
For door and frames with ANSI/BHMA A156.115 preparations. 1-1/4" supplied standard. 1-1/8", 1-1/2", and 1-3/4" lip lengths available by special order.
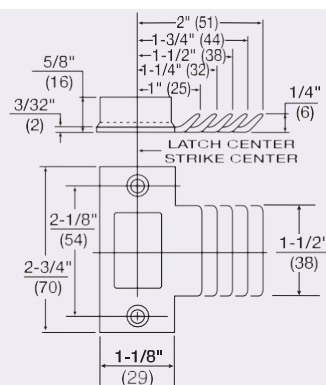
Model No. 371 T-Strike (Optional)
1-1/4" curved lip supplied standard. 1", 1-1/2", 1-3/4", and 2" curved lip lengths available by special order. Wrought strike box supplied.
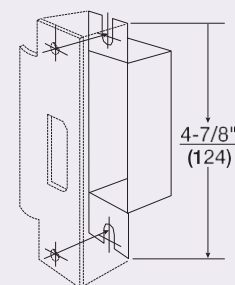
Model No. 202 Strike Box for ANSI Strike (Optional)
Specify 497 x 202.

DIMENSIONS

Cylindrical

2-7/8"
(73mm)

8-1/8"
(207mm)

3-3/4"
(96mm)

1/2"
(13mm)

1-3/8"
(36mm)

1-1/2"
(39mm)

1-1/2"
(39mm)

3-5/16"
(84mm)

3-5/16"
(84mm)

2-7/8"
(73mm)

8-1/8"
(207mm)

3-3/4"
(96mm)

Dimensions given in inches (mm).

nexTouch® Keypad Locks
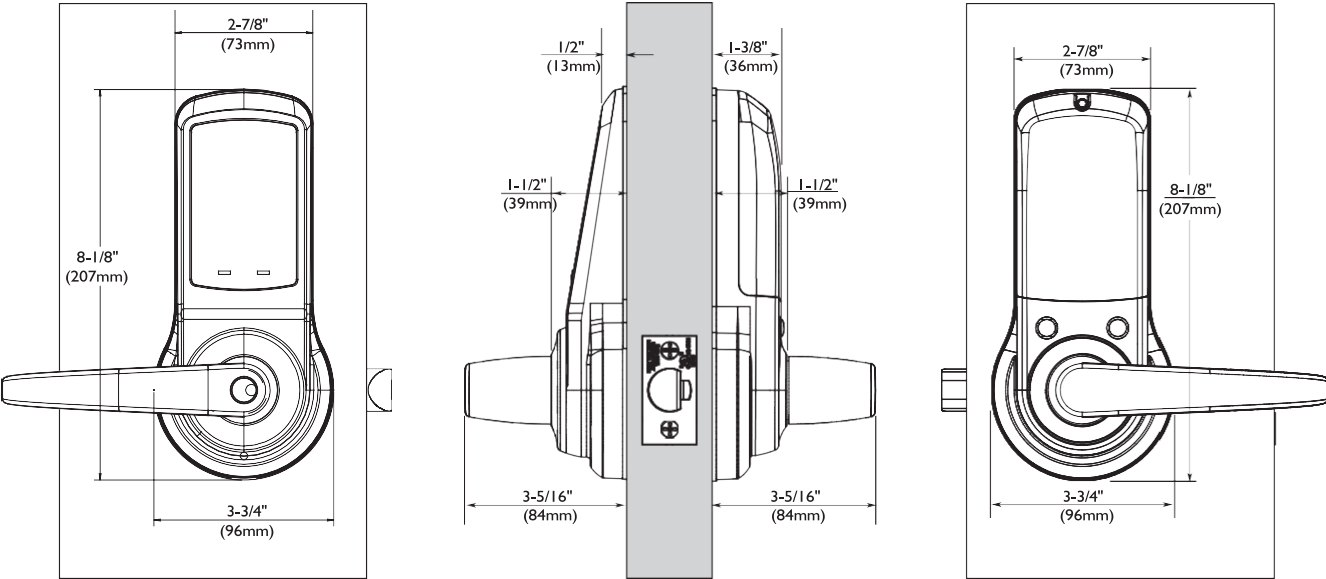
CERTIFICATIONS AND LISTINGS

Cylindrical

ADA

The nexTouch® Series lever design meets 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.

ANSI/BHMA

nexTouch® cylindrical certified ANSI/BHMA A156.2, Series 4000 Grade 1.

Fire Listings

Functions are UL/cUL Fire Listed for use on fire doors having a rating up to and including 3 hours.

Note:
Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and ASSA ABLOY ACCENTRA™ makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

FCC

Complies with limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

ISO 14001

Designed and manufactured under a certified ISO 14001 quality system.

Sustainability

EPD and GreenCircle certification.

Warranty

nexTouch® has a three year limited warranty on the mechanical and electrical components, and a one year limited warranty on the finish.

Windstorm

Certified (refer to local codes).

Hurricane

nexTouch® Keypad Locks

ACCENTRA
ASSA ABLOY

Touchscreen as shown
when activated

Weather
Resistant Seal

Lockout Mode

**Low Battery
Indication**

**9V Battery
Power Backup**

**Reflections® Decorative
Lever Options Available**

**Optional
Security
Deadbolt**

**Built-in DPS/
Deadlocking
Function**

ACCENTRA
ASSA ABLOY

Sectional Mortise

Quantity	Lever Design	Series/Function	^Technology	Finish	Hand*	Door Thickness	Cylinder	Strike
	AUR – Augusta MOR – Monroe PBR – Pacific Beach ARR – Arcadia CRR – Carmel JNR – Jefferson PNR – Pinehurst VIR – Virginia See page 20 for Reflections decorative lever options	NTM613 – Sectional mortise lock, key override, pushbutton keypad, o deadbolt NTM618 – Sectional mortise lock, key override, pushbutton keypad, with deadbolt NTM623 – Sectional mortise lock, key override, capacitive touchscreen, no deadbolt NTM628 – Sectional mortise lock, key override, capacitive touchscreen, with deadbolt NTM633 – Sectional mortise lock, no key override, pushbutton keypad, no deadbolt NTM638 – Sectional mortise lock, no key override, pushbutton keypad, with deadbolt NTM643 – Sectional mortise lock, no key override, capacitive touchscreen, no deadbolt NTM648 – Sectional mortise lock, no key override, capacitive touchscreen, with deadbolt	NR – Keypad only, no radio	605 – Bright brass, clear coated 613E – Dark oxidized bronze - equivalent 26 – Sati chrome plated BSP – Black suede powder	RH LH	1-3/4" standard, up to 2-1/4" door thickness available	2153 cylinder standard, see pages 23-25 for additional options	2815 curved lip strike standard, see page 27 for additional options

*Lock is field reversible
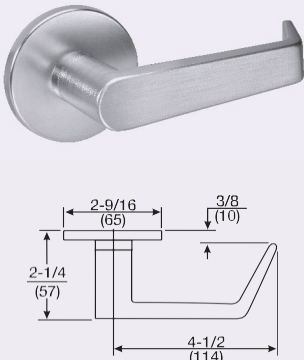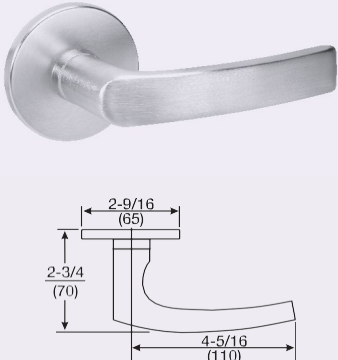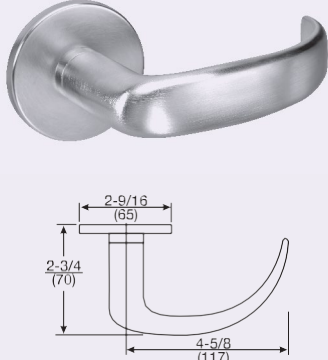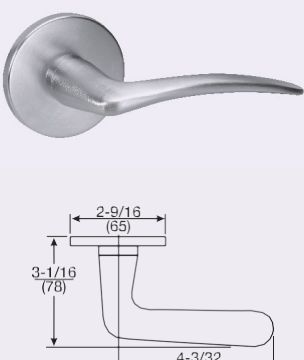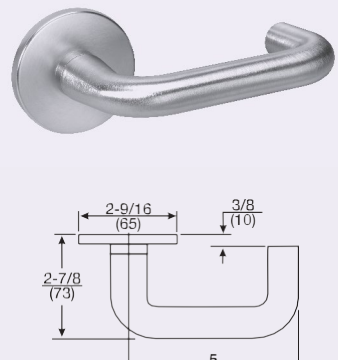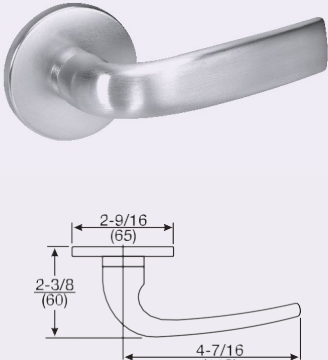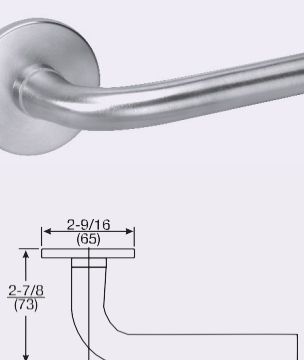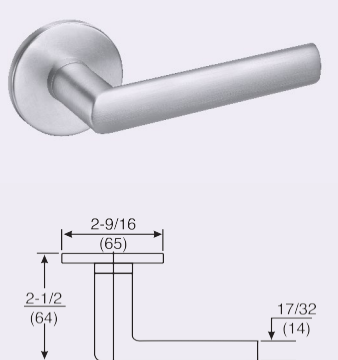
Build Your Order String

Quantity	Lever Design	Series/Function	^Technology	Finish	Hand	Door Thickness	Cylinder	Strike
Example:	AUR	NTM623	NR	626	RH	1-3/4	2153	2815

^nexTouch® No Radio lock part numbers NTM613, NTM618, NTM623, NTM628, NTM633, NTM638, NTM643, & NTM648 can be upgraded for use with the ASSA ABLOY ACCENTRA™ Cloud platform by installing the ACCENTRA radio module available to all ASSA ABLOY ACCENTRA™ Multi Family Housing Certified Integrators. **These part numbers can NOT be upgraded for use with a Z-Wave compatible system.**

nexTouch® Keypad Locks

TRIM DESIGNS

Sectional Mortise

AUGUSTA AUR AU Lever Handle: Cast	MONROE MOR MO Lever Handle: Cast	PACIFIC BEACH PBR PB Lever Handle: Cast

2-9/16 (65)   3/8 (10)   2-1/4 (57)   4-1/2 (114)

2-9/16 (65)   2-3/4 (70)   4-5/16 (110)

2-9/16 (65)   2-3/4 (70)   4-5/8 (117)

ARCADIA ARR AR Lever Handle: Cast	CARMEL CRR CR Lever Handle: Cast	JEFFERSON JNR JN Lever Handle: Cast

2-9/16 (65)   3-1/16 (78)   4-3/32 (104)

2-9/16 (65)   3/8 (10)   2-7/8 (73)   5 (127)

2-9/16 (65)   2-3/8 (60)   4-7/16 (113)

PINEHURST PNR PN Lever Handle: Cast	VIRGINIA VIR VI Lever Handle: Cast	
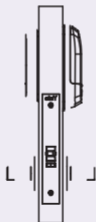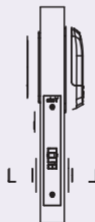
2-9/16 (65)   2-7/8 (73)   5-1/8 (130)

2-9/16 (65)   2-1/2 (64)   17/32 (14)   5 (127)

ACCENTRA

ASSA ABLOY

Sectional Mortise

ANSI/BHMA Code Finish Description			
605 Bright Brass, Clear Coated	613E Dark Oxidized Satin Bronze - equivalent	626 Satin Chrome Plated	BSP Black Suede Powder Coat

SECTIONAL MORTISE

ACCENTRA
ASSA ABLOY

Sectional Mortise

SECTIONAL MORTISE

NTM633 Pushbutton NTM643 Touchscreen	NTM613 Pushbutton NTM623 Touchscreen

NTM638 Pushbutton NTM648 Touchscreen	NTM618 Pushbutton NTM628 Touchscreen

nexTouch® Keypad Locks

Sectional Mortise

ACCENTRA nexTouch® Keypad Sectional Mortise Locks come standard with a 2815 Curved Lip Strike with a 1-1/4" (32mm) lip length. The strike supplied will accommodate the locking function, i.e. latchbolt and/or deadbolt, and can be installed on doors 1-3/4" (44mm) thick. These strikes are non-handed.

Material: Brass, Bronze, Stainless Steel.

Longer/Shorter Lip Lengths: Mortise lock strikes are mounted 3/8" above the center line of the lock. To determine the proper length of lip use the following formula:

1/2 of the door thickness, plus 1/16" inset, plus trim thickness, plus 1/8" for flat lip strike OR 1/4" for curved lip strike. Select the nearest available length.

2815 Curved Lip:
1-1/4" (32mm) standard
Available for special order:
1-1/8" (29mm)
1-3/8" (35mm)
1-1/2" (38mm)
1-5/8" (41mm)
1-3/4" (44mm)
1-7/8" (48mm)
2" (51mm)
2-1/8" (54mm)
2-1/4" (57mm)

2815 Curved Lip Strike
1-1/4" (32mm) Standard

2816 Flat Lip (Available for special order only):
7/8" (22mm)
1" (25mm)
1-1/8" (29mm)
1-1/4" (32mm)
1-1/2" (38mm)
1-3/4" (44mm)
2" (51mm)
2-1/4" (57mm)
2-1/2" (64mm)

SECTIONAL MORTISE

ACCENTRA
ASSA ABLOY

Sectional Mortise

Dimensions given in inches (mm).

28

nexTouch® Keypad Locks

ACCESSORIES

Activating Door Switches

501   **502**

» 4-1/2" W. x 4-1/2" H.
» 15 amp @ 125 VAC
» Flush mounted – hard wired
» Fits single or 2 gang electrical box
» **501 –** Stainless steel with black letters
» **502 –** Blue powder coat with white

letters
» Specify #542 to order surface mount box for 501 or 502 switch

Activating Door Switches

505, 531   **507, 532**

506, 533   **534, 535**

» 6" W. x 6" H.
» 9 volt battery
» 15 amp @ 125 VAC
» Flush mounted
» Stainless steel with blue letters
» **531, 532, 533** and **535** radio frequency (433MHz) – used with RF option and 539. Supplied with surface mount boxes
» **507, 505, 506** and **534** hard wired*
» Surface mounted boxes are not supplied if required, specify:
  555 - 6" square surface mount box
  557 - 6" round surface mount box

* Switches may also be installed with single or double gang electrical box using fasteners included.

Vestibule Switch

503

» 1-1/2" x 4-3/4" face plate
» SPDT UL listed switch-mom
» 15 amp @ 125 VAC
» Fits 1-3/4" frame
» Stainless steel with blue letters

Vestibule Switches

504

» 5" W. x 4-3/4" H.
» 2 – SPDT UL listed switches-mom
» 15 amp @ 125 VAC
» Fits 2-gang electrical box
» Stainless steel with blue letters

Wave-to-Open Wall Switch

700

» Single gang and double gang packaged together
» Sensor requires movement for activation
» Variable relay – hold time from 0 – 35 seconds
» Range 0" to 4"
» 3" W x 4-3/4" H (single);
» 4-1/2" W x 4-1/2" H (double)

ASSA ABLOY, the global leader in door opening solutions

3267 Remote Power

- Provides a filtered and regulated 9 VDC remote power for Profile Series v.G1.5 locks
- Each unit can supply power to two v.G1.5 or LK products
- Optional 12 VDC Gel Cell battery allows for continuous operation in the event of a power failure. (Strongly recommended for applications without cylinder over-ride to prevent lock-out)
- Requires manufactured door with ElectroLynx or raceway through the door for hard-wiring*

Reference template list below for correct preparation of non-ElectroLynx doors.

4540 – Bored Lock
4541 – Mortise Lock
4542 – Rim and Mortise Exits

Includes:
- Plug-In Wall Transformer (52-0255) and (52-0258) 12' (3.6m) of shielded wire for connection between power transfer and power supply. (Maximum length of 50' (15.2m) recommended)

* Recommended for new opening. Retrofit application may require surface mounted wire mold and transfer loop by others.

Profile Series v.G1.5 Exit Device Upgrade Kit For:

SARGENT 80 Series Rim Exit Device (8877/8878)
Mortise Exit Device (8977/8978)

The Escutcheon/Electronics kits are available as single or three packs. When ordering specify kit number and finish (i.e. 231LK x 26D)

Exit Device Profile Upgrade

1 Pack Kit P/N	3 Pack Kit P/N	Description
231 LK	233 LK	Keypad Only (100 User\1000 Audit Capability)
231 G1-L	23 G1-L	Keypad Only (2000 User\2000 Audit Capability)
231 G1-PA	233 G1-PA	Proximity Only (2000User\2000 Audit Capability)
231 G1-PK	233 G1-PK	roximity & Keypad (2000 User\2000 Audit Capability)
231 G1-TU	233 G1-TU	Keypad Only (2000 User\2000 Audit Capability) with RF Technology
231 G1-TA	23 G1-TA	Proximity Only (2000 User\2000 Audit Capability) with RF Technology
231 G1-TP	233 G1-TP	Proximity & Keypad (2000 User\2000 Audit Capability) with RF Technology

Trim Kits contain motorized exit trim used with the Profile Upgrade Kits to convert an existing exit device.

Trim Kit P/N	Description
777-8	8800 Series Rim Exit Device w/ Cylinder Override
778-8	8800 Series Rim Exit Device w/o Cylinder Override
777	8900 Series Mortise w/ Cylinder Override
778	8900 Series Mortise Exit w/o Cylinder Override

52-2551 RF Fob

RF technology offers stand-alone access control enhancement by allowing the user to remotely control the lock by means of a hand-held transmitter (RF Fob).

The Profile Lock is easily programmed for three primary RF actuation modes: Passage, Standard or Panic. RF Technology is a means of operating the lock in addition to by direct keypad code entry or proximity credential presentation.

NOTE: RF Fob sold separately

3267 Replacement Parts

52-0255 Plug-In Wall Transformer

- Output 16.5 VAC, 2.4 Amps
- UL/cUL Listed
- Provides input power to Model 3267 Remote Power supply module

52-0258
- Cable Assembly-Power Supply to Power Transfer
- 12' (3.6m) shielded cable from the power to the power supply

91- Option Remote Power & Unlocking Wiring Harness

- Wire harness for Remote Power and Remote Unlocking (request to enter)
- Packed with lock assembly
- When ordering harness only, use 52-3010

- For ElectroLynx doors - QC8 electric hinge is required, available from McKINNEY
- For non-ElectroLynx doors - requires raceway with wire harness through the door and power transfer

– 4-Wire Concealed Circuit Hinge for Remote Power Only (McKINNEY CC4)

– 6-Wire Concealed Circuit Hinge for Remote Power and Remote Unlocking Options (McKinney CC6)(McKinney CC6)

52-0256 Gel Cell Battery

- Optional for 3267 Remote Power supply
- Provides continuous operation of Profile Series v.G1.5 in the event of a power failure
- 12 VDC 1.2 A/Hr rating
- 10,000 cycles typical in the event of power failure

DM- Option Forced/Propped Door Harness

- Wire harness for Forced/Propped door
- Packed with lock assembly
- When ordering harness only, use 52-3409
- For ElectroLynx doors - QC8 electric hinge is required; QC12 electric hinge is required when used with Remote Power and/or Remote Unlocking
- For non-ElectroLynx doors - requires raceway with wire harness through the door and power transfer

4 Wire Concealed Circuit Hinge for Forced/Propped Door Only (McKINNEY CC4).

8 Wire Concealed Circuit Hinge for Forced/Propped Door and Remote Power/Remote Unlocking (McKINNEY CC8)

- Door Status switch required

Securitron ®

XMS Exit Motion Sensor

Versatile motion detection for hands-free exit request

a door and releases its lock.

Versatile mounting options and an easily adjustable infrared beam pattern provide optimal coverage of the egress area for smooth, hands-free lock release and exit.
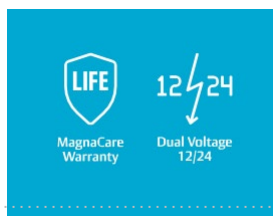
Safety Note: ASSA ABLOY Electronic Security Hardware recommends that an emergency exit button, such as the EEB, be used in conjunction with the XMS to meet applicable building codes and specific life safety issues.

How to Order

Model Series
XMS

XMS	Exit Motion Sensor

The global leader in
door opening solutions

Features

Standard Features
- Passive infrared (PIR) request to exit (REX) device
- Automatically and reliably cuts power to the lock with no human intervention
- REX output
- Easily adjustable beam pattern
- Adjustable time relock
- MagnaCare® lifetime replacement, no fault, no questions asked warranty

Specifications

Certifications
- ANSI/UL 294 Listed

Dimensions
- 7"L x 1-7/8"W x 1-3/4"H
- Indoor use only

Electrical
- 20 mA-50 mA (depending on switching status) at 12 or 24 VDC

Shipping Weight
- 0.5 lbs [0.23kg]

7"
[178mm]
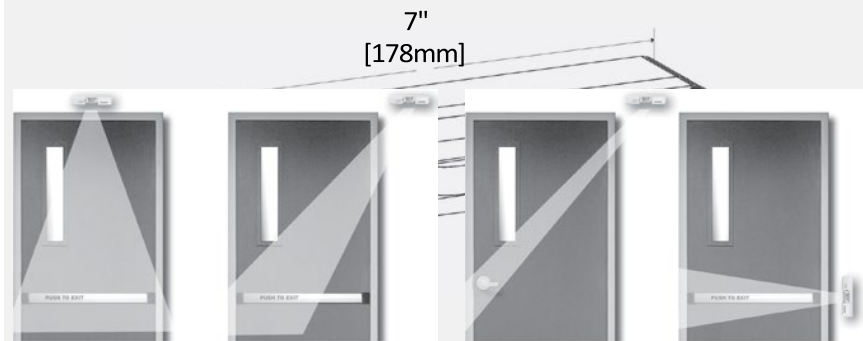
Securitron MK Mortise Keyswitch ®

Turns standard mortise cylinder into full featured keyswitch

lock control, alarm panel arming, reset and override when paired with any mortise cylinder 1-1/8" to 1-1/2".

12 or 24 VDC
- Bi-color LED
- Backing bracket permits integration with any 1-1/4" [32mm] or 1-1/8" [28mm] mortise cylinder (not included)
- Support for 1-1/2" cylinder using spacer ring and backset
- Additional switch position on backing bracket allows another switch to be activated by turning the key in the opposite direction
- 5A rated plunger switch
- Includes anti-tamper screws
- MagnaCare® lifetime replacement, no fault, no questions asked warranty

Momentary or Alternate
- SPDT or DPDT relay
- Narrow Stile, Single- or Double-Gang
- Local annunciation via Piezo sounder
- Additional switch add on
- 1-1/8" Key Cylinder, 26D Finish, SC keyway

How to Order

LIFE
MagnaCare Warranty

12/24
Dual Voltage 12/24

Model Series	Switch Type	Mounting Method	Special Feature
MK	**A**	**N**	**2**
MK Mortise Key Switch	(blank) Momentary Switch	(blank) Single Gang	Z Piezo
	A Alternate Switch	2 Double Gang	2 DPDT—Double Pull, Double Throw
		N Narrow Gang	

Note: Not every combination above is possible. Please contact the factory if you need a combination of features not listed on this page

Keyswitch Selection Guide

	Single Gang	Narrow Stile	Double Gang	Tubular Key	Momentary	Alternate	SPDT	DPDT
KP1	•			•	•		•	
KP1A	•			•		•	•	
MK	•				•		•	
MK2	•				•			•
MKA	•					•	•	
MKA2	•					•	•	•
MKAN		•				•	•	
MKAN2		•				•		•
MKN		•			•		•	
MKN2		•			•			•
MKPZ			•		•		•	
MKAPZ			•			•	•	
MK ACCESSORIES								
MKS					•		•	
MKS2					•			•
MKSA						•	•	
MKSA2						•		•
MKC	•	•	•					
MKC-KA	•	•	•					

Single Pole – Single Throw (SPST)

Switches that have one input and one output (NO or NC) and turn on or off in response to the switch action

Single Pole - Double Throw (SPDT)

Switches with one input and two outputs. When the switch operation occurs, the connection shifts from output A to output B

Double Pole - Single Throw (DPST) Two SPST switches that operate in tandem using one switch operation so that two outputs turn on or off simultaneously in reaction to the switch operation
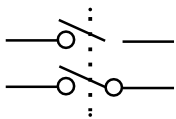
Double Pole – Double Throw (DPDT)

Two SPDT switches that operate in tandem using one switch operation so that each connection shifts simultaneously from its primary output to its secondary output
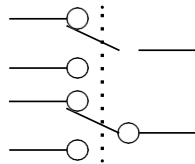
Momentary Switch

A momentary switch changes state during activation and reverts to its original state upon deactivation. A doorbell is a common example of a momentary switch. A timer can be used to extend the effect of the switch operation for a specific amount of time.

Alternate Switch

An alternate switch changes state upon activation and does not change back until reactivated. A light switch is a common example of an alternate switch. Alternate switches are also called maintained or latching switches

Normally Open Contacts (NO)

A normally open contact provides an open circuit where no current is flowing in its usual state.

Wired in Parallel for Fail Secure type electric locks (i.e. Electric strike). Activating any switch will apply power, releasing the lock.
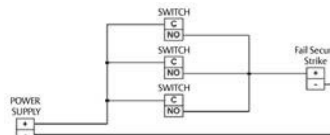
Normally Closed Contacts (NC)

A normally closed contact provides a closed circuit where current is flowing in its usual state.

Wired in Series for fail safe type electric locks (i.e. Securitron Magnalocks). Activating any switch will break power, releasing the lock.
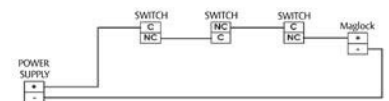
Securitron AQD & AQS

Series

Dual & single voltage switching power supplies

Securitron AQD Series dual voltage and AQS Series single voltage switching power supplies are both supervised units with a battery charger designed to power magnetic locks, electric strikes, card readers, sensors, access control boards and other devices in access control systems. The Securitron AQD and AQS Series can also be used to power DC cameras and other DC locking equipment. These units provide field selectable 12 or 24 VDC with up to 16 independently controlled power limited outputs.

Features

Standard Features

- AQD Series is dual voltage 12 or 24 VDC field selectable continuous output
- AQS Series is single fixed voltage 12 or 24 VDC continuous output
- Tolerates brownout or overvoltage input ± 15% of nominal voltage
- Thermal shutdown protection with auto restart
- Circuit breaker protects against overcurrent and reverse battery faults *(batteries sold separately)*
- Dedicated battery charging circuit prevents over voltage on locking devices *(except for AQD1)*
- Expandable up to 16 outputs in the standard enclosure
- Outputs are Class 2 limited when used with PTC Polyswitch output distribution boards
- Available with a single relay fire trigger or individually fire trigger relayed outputs
- Low noise design provides better than linear performance
- Mix and match configuration allows for UL compliance even when used in other UL Listed enclosures
- MagnaCare® lifetime replacement, no-fault, no questions asked warranty

Dimensions

- Enclosure: 14" x 14" x 4-3/4" [356mm L x 356mm W x 121mm D]

Specifications

Certifications

- UL 294 Listed
- UL 603 Listed
- ULC-S318 Listed
- ULC-S533 Listed
- RoHS Compliant
- REACH Compliant

Electrical AQD Series

- AQD Series 12 VDC or 24 VDC field selectable output
- 115 or 230 VAC input*
- Supports up to two (2) sealed gel, AGM or wet lead acid batteries
- Up to 90% efficiency
- Low voltage ripple design as low as 240 mV p-p

Electrical AQS Series

- AQS Series 12 VDC or 24 VDC fixed output
- 115 or 230 VAC input
- Supports up to two (2) sealed gel, AGM or wet lead acid batteries

Environmental

- Operating Temperature: -4˚ to 122˚ F [-20˚ to 50˚ C]

Shipping Weight

- 12.7 lbs [5.76 kg]

*AQD1 available in 115 VAC only

Securitron AQS Series

Step by Step Configuration
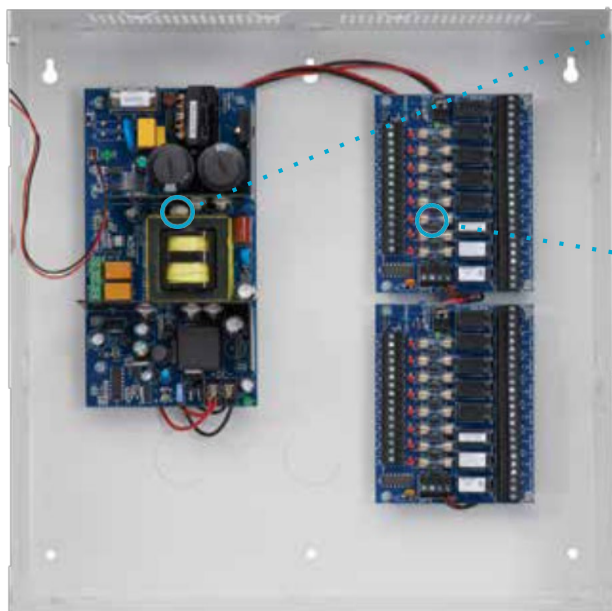
* NOTE: Fuse type and size must be the same for both distribution boards for standard ordering. For custom configurations, please contact the factory at 800.626.7590.

1 ### Select One Power Supply with Enclosure

- AQD1
- AQD2
- AQD4
- AQD6
- AQS1210
- AQS2410
- AQS1216

2 ### Select Up to Two Power Distribution Boards*

- PDB-1R
- PDB-4C
- PDB-4F
- PDB-8C
- PDB-8F
- PDB-8C1R
- PDB-8F1R
- PDB-8C8R
- PDB-8F8R

Add Distribution Board

3 ### Part Numbers
8F1R**2** + 8F8R**2** = 16F9R**2**
*Include fuse size on end:
2 A Fuse = 16F9R**2**

Combine to Generate

4 ### Final Part Number
Example: AQD6-16F9R2

AQD6 + 8F8R2 + 8F1R2 **= AQD6-16F9R2**

Models

MODEL	AMPERAGE	RATED VOLTAGE	INPUT VOLTAGE	TYPICAL VOLTAGE	CLASS 2 OUTPUTS	REPLACES
AQD1	1	12 or 24 VDC	115	13.7 / 27.4	Yes	AQD3
AQD2	2	2 or 24 VDC	115/230	12.5 / 25.0	Yes	AQD3
AQD4	4	12 or 24 VDC	115/230	12.5 / 25.0	Yes	AQD5
AQD6	6	12 or 24 VDC	115/230	12.5 / 25.0	Available*	AQD6
AQS1210	10	12	115/230	12.5 / 25.0	Available*	AQU128
AQS2410	10	24	115/230	12.5 / 25.0	Available*	AQM20
AQS1216	16	12	115/230	12.5 / 25.0	Available*	AQM20

* Outputs are class 2 limited when used with 4 or 8 output PTC distribution boards

How to Order

MODEL SERIES	OUTPUT TYPE	VOLTAGE	OUTPUT POWER	ENCLOSURE STYLE	NUMBER OF OUTPUTS	FUSE TYPE	NUMBER OF RELAYS	RELAYS	FUSE SIZE
AQ	D	6	–	8	F	8	R	2	
AQ	**D** Dual Voltage *	**(blank)** Dual Voltage *	1 *	– In Enclosure	**(blank)** One Output, No Distribution Board				
	S Single Voltage **	**12** 12 VDC **	2 *	**B** Circuit Board Only	4	**F** Glass Fuses †	1	**R** Relays	**1** 1 Amp
			4 *		8	**C** PTC Polyswitch †	2		**2** 2 Amp
			6 *		12		8		
			10 **		16		9		
			16 **				16		

* Dual Voltage Option Only. ** Single Voltage Option Only.

† Fuse type and size must be the same for both distribution boards for standard ordering. For custom configurations, please contact the factory at 800 626 7590.

Securitron AQD & AQS Series Power Configurator: aqpowerselector.assaabloyesh.com

CEPT
Concealed Electrical Power Transfer

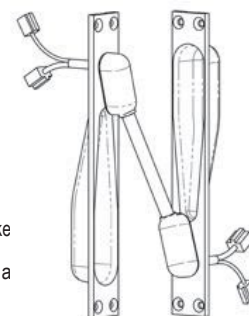**Beautifully Crafted, Compact, Secure Power Transfer**

The heavy-duty, tamper-resistant Concealed Electrical Power Transfer (CEPT) securely transfers power and data from the hinge side of the frame to electrified hardware on the door. The unit is discreetly concealed between the frame and door when the door is closed. Available in three multi-wire configurations and four finishes, the CEPT complements any architectural setting.

PRODUCT FEATURES

- Mortises into the edges of the door and frame
- Direct retrofit for competitor products
- Tamper resistant
- All metal construction including back boxes
- 7/8" knockouts on back boxes accommodate EMF-type fittings
- Tested to 1,000,000 cycles
- Compatible with butt hinges up to 6" and continuous hinges with cutout
- MagnaCare Lifetime Replacement No Fault Warranty

PRODUCT OPTIONS

- CEPT-10 includes 8-22 AWG wires plus 2-18 AWG wires for higher-current devices
- CEPT-C5E includes CAT5E compatible with 9 - 22 AWG wire stranded conductor, Molex connectors
- EL-CEPT is ElectroLynx compatible with 12-22 AWG wires, ElectroLynx connectors
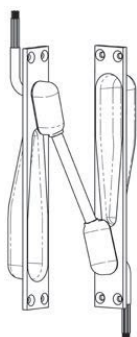
SPECIFICATIONS:

- ANSI/UL 10C Listed, 3 hour rated
- ULC-S318 Listed, 3 hour rated
- ANSI/SDI-BHMA A250.13 (+/- 150 psi) Windstorm Listed
- Florida Building Code Approved
- Patent Pending

Dimensions:
CEPT Housing
9-1/16"L x 1-3/16"W x 1-7/16"D

Shipping Weight:
2.40lbs [1.09kg]

Finishes:
US32D/630 - Stainless Steel
US04/606 - Dull Brass
US10/612 - Dull Bronze
US10B/613 - Oil Rubbed Bronze

MODELS

PART #	Description
CEPT-10	CEPT - US32D, Concealed, 10 Wire
CEPT-10-04	CEPT - US04/606, Concealed, 10 Wire
CEPT-10-10	CEPT - US10/612, Concealed, 10 Wire
CEPT-10-10B	CEPT - US10B/613, Concealed, 10 Wire
CEPT-C5E	CEPT - US32D, Concealed, CAT-5E
CEPT-C5E-04	CEPT - US04/606, Concealed, CAT-5E
CEPT-C5E-10	CEPT - US10/612, Concealed, CAT-5E
CEPT-C5E-10B	CEPT - US10B/613, Concealed, CAT-5E
EL-CEPT	CEPT - Concealed, US32D, ElectroLynx
EL-CEPT-04	CEPT - Concealed, US04/606, ElectroLynx
EL-CEPT-10	CEPT - Concealed, US10/612, ElectroLynx
EL-CEPT-10B	CEPT - Concealed, US10B/613, ElectroLynx

1.2" [30.5mm]   1.03" [26mm]

Technical note:
- Not for use with center hung or balanced doors, pocket hinges.
- Door swing ranges when installed with butt hinges a

Hinge Size	Door Swing Range
5" or less	up to 180
5-1/2"	up to 130
6" Butt Hinge	up to 110

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SPECIALTY LOCKS | ELECTROMECH LOCKS | MAG LOCKS
ENTRY DEVICE | EXIT DEVICES
ACCESS CONTROL ACCESSORIES
OWER SUPPLIES
OWER TRANSFER
OWER ACCESSORIES
RESOURCES

Push Buttons (continued)

PB3 SERIES - Assorte Siz   ith a Uniform Look

PB3E - Rectangle Momentary, DPST

PB3EN - Rectangle Momentary, Narrow Stile

PB3N - Illuminated Narrow Stile plus red LED

PB4L - Vandal-resist nt St   utton Illuminated Halo

PB5 - Easy to Read La

SECURITRON®

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PB3 SERIES » Assorted Sizes and Colors with a Uniform Look

• 3 Amp rated contacts
• Includes interchangeable green and red lenses
• Field convertible from DPST to DPDT
• Stainless steel single gang plate: 4.5" x 2.75" [114mm x 70mm]
• Stainless steel narrow stile plate: 4.5" x 1.75" [114mm x 44mm]
• Surface mount: 3.875" x 2" [98mm x 51mm]
• Red LED on plate

» MODELS — Part # / Description

PB3 1" x 3/4" Rectangle Momentary, DPST, Illuminated Plus Red LED	**PB3AN** 1" x 3/4" Rectangle Alternate, DPST, Illuminated, Narrow Stile Plus Red LED	**PB3EAR** 1" x 3/4" Alternate, DPST, Surface Mount
PB3A 1" x 3/4" Rectangle Alternate, DPST, Illuminated Plus Red LED	**PB3E** 1" x 3/4" Rectangle Momentary, DPST	**PB3EN** 1" x 3/4" Rectangle Momentary, DPST, Narrow Stile
PB3N 1" x 3/4" Rectangle Momentary, DPST, Illuminated, Narrow Stile Plus Red LED	**PB3EA** 1" x 3/4" Rectangle Alternate, DPST	**PB3EAN** 1" x 3/4" Rectangle Alternate, DPST, Narrow Stile
	PB3ER 1" x 3/4" Momentary, DPST, Surface Mount	**PB3-LK** Illumination Kit for PB3 Series Push Buttons

PB4L SERIES » Vandal-Resistant Stainless Button with Illuminated Halo

• 4 Amp rated contacts
• Illuminated green Halo-style button
• Bi-color LED
• Vandal and tamper resistant
• Stainless steel single gang plate: 4.5" x 2.75" [114mm x 70mm]
• Stainless steel narrow stile plate: 4.5" x 1.75" [114mm x 44mm]

» MODELS — Part # / Description

PB4L-2 1" Stainless Momentary, DPDT, Single Gang	**PB4LN-2** 1" Stainless Momentary, DPDT, Narrow Stile
PB4LA-2 1" Stainless Alternate, DPDT, Single Gang	**PB4LAN-2** 1" Stainless Alternate, DPDT, Narrow Stile

PB5 SERIES » Easy to Read Large Round

• 5 Amp rated contacts
• Includes interchangeable green, red and blue ADA lenses
• Stainless Steel single gang plate: 4.5" x 2.75" [114mm x 70mm]
• Field convertible from DPST to DPDT

» MODELS — Part # / Description

PB5 2" Round Momentary, DPST, Illuminated	**PB5E** 2" Round Momentary, DPST	**PB2-LK** Illumination kit for PB2E, PB5E, EEB2

Adhesive Astragal/Meeting Stile Seals

- The **S771** and **S772** astragal/meeting stile seals can be installed on virtually any pair of doors where sound attenuation is required. These products seal the opening to prevent heat loss, retard the passage of smoke, and act as a weatherization product

- Excellent resistance to compression set, particularly at elevated temperatures and for extended periods of time

- Stays flexible between -58°F and 450°F with very high resistance to flex fatigue

- Maintains a low closing force

- Easy installation requires no mechanical fasteners; can be cut to size in the field

S771_
AVAILABLE FINISHES: **BL, C, D, GR, W**
AVAILABLE LENGTHS: **7', 8', 9', 10'**
ANSI: **R0E754, R0E755**

$9/32$" (7.1)
$7/16$" (11.1)
Adhesive Backing

S772_
AVAILABLE FINISHES: **BL, C, D, GR, W**
AVAILABLE LENGTHS: **7', 8', 9', 10'**
ANSI: **R0E754, R0E755**

$3/16$" (4.8)
$1/2$" (12.7)
Adhesive Backing
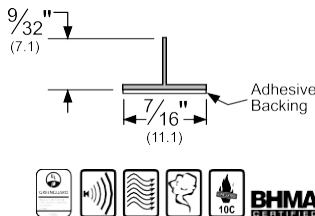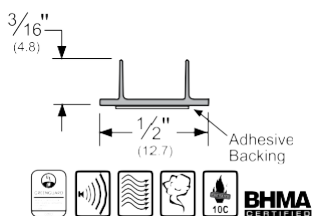
S771x6_
AVAILABLE FINISHES: **BL, C**
AVAILABLE LENGTHS: **7', 8', 9', 10'**
ANSI: **R0E154, R0E155, R0E754, R0E755**
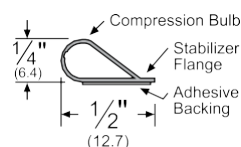
- Designed for hollow metal and wood meeting stile applications

- Seal begins compressing at $5/16$"; compresses to seal up to a $1/16$" gap

$5/16$" (7.9)
1" (25.4)
Adhesive Backing
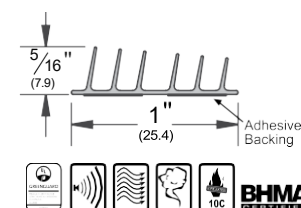
Notes For All Adhesive Gasketing:
Storage and shelf life: All adhesive gaskets have a limited shelf life. This product must be installed within 6 months of purchase and must be stored between 50ºF and 100ºF.
For further notes/details, please see Adhesive Gasketing section.

Adjustable Astragals

- Available in 84", 96" and 120" lengths
- When used as split astragals on double doors, two lengths must be ordered: one for each door

351_S
AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
S4 (BL, GR)

- Suface applied
- For use with square-edge or bevel-edge doors

351_ / 351_S shown below*

1" (25.4)
$3/8$" (9.5) max
$9/16$" (14.3)
door face
door edge
silicone (**S**)
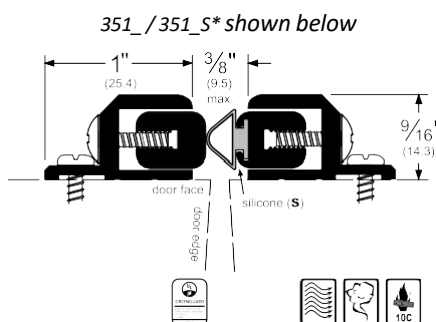
354_S
AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
S4 (BL, GR)

- Fully mortised
- Designed for use with bullnose doors

354_ / 354_S shown below*

silicone (**S**)
$1/2$" (12.7)
$3/8$" (9.5)
$19/32$" (15.1)
$3/8$" (9.5)
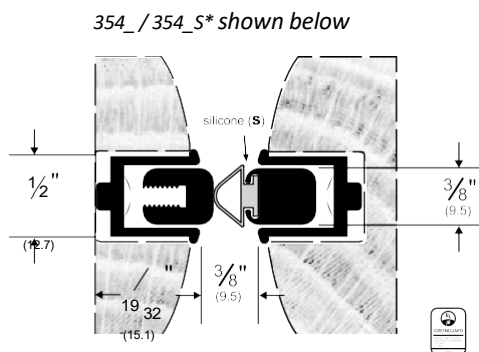
* If you require split astragals in a metal to gasket configuration, you must order each leaf separately with your choice of insert in the tables to the right

Alternate Inserts For 351

351_PK
AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
PK4 (BL, GR)
PemkoPrene™ (**PK**)

351_V
AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
EV41 (BL, GR, W)
Eco-V™ (**V**)
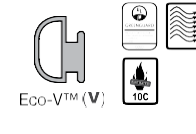
351_P
AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
P2 (BL, GR)
pile (**P**)
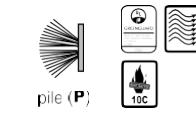
Alternate Inserts For 354

354_PK
AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
PK4 (BL, GR)
PemkoPrene™ (**PK**)

354_V
AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
EV41 (BL, GR, W)
Eco-V™ (**V**)

354_P
AVAILABLE FINISHES:
B, C, D, G
REPLACEMENT INSERT:
P2 (BL, GR)
pile (**P**)

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AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Mill Finish Extruded Bronze [Brass]) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
Special finishes available upon request
Gasket colors: **BL** (Black) **C** (Clear) **D** (Dark) **GR** (Gray) **W** (White)

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174

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Door Top Weatherstrip

_343

AVAILABLE FINISHES: **PA**
AVAILABLE LENGTHS: **36", 48"**

- For top of 1³/₈" wood doors

7/16"
(11.1)

1³/₈"
(34.9)

346_

AVAILABLE FINISHES: **C, D, G, PW**

- Overhead rain drip with slotted holes
- Should be ordered a minimum of 4" longer than the door width

5/8"
(15.9)

2½"
(63.5)

_344

AVAILABLE FINISHES: **PA**
AVAILABLE LENGTHS: **36", 48"**

1³/₄"
(44.5)

1/4"
(6.4)
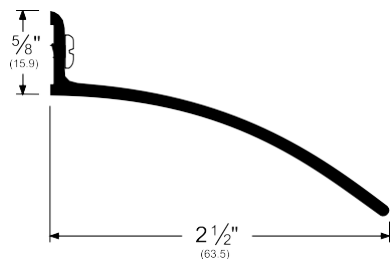
347_
68_R

AVAILABLE FINISHES: **A, D, G**

3/4"
(19.1)

347

1¹/₈"
(28.6)

top of jamb
top of door

68

13/16"
(20.6)

377VP_

REPLACEMENT INSERT: **P2 (BL, GR)**

377V_

REPLACEMENT INSERT: **EV38 (Tan)**

Rigid tan colored Eco-V™ with Eco-V™ (V) insert or pile (P) insert used as a door top (or bottom) filler strip for hollow metal doors

pile (**P**)

1/8"
(3.2)

Eco-V™ (**V**)

5/8"
(15.9)

1⁹/₁₆"
(39.7)

1³/₄"
(44.5)
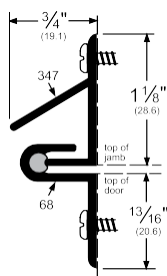
Heavy Duty Door Bumper

- Heavy duty door bumper extruded from black EPDM (E)
- Order 196_ separately; furnished undrilled unless requested otherwise

E199_

AVAILABLE COLOR: **BL**

196_

AVAILABLE COLOR: **A**
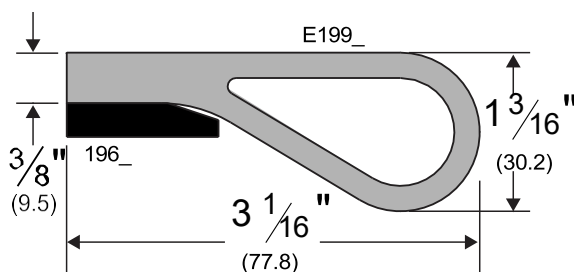
E199_

196_

3/8"
(9.5)

1³/₁₆"
(30.2)

3¹/₁₆"
(77.8)

NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **C** (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PA** (Painted Aluminum)
PW (Painted White)
Non-Metal Finish: **BL** (Black)

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SiliconSeal Adhesive-Backed Fire/Smoke Gasketing

- SiliconSeal is extruded from high-temperature silicone; effective between -58°F and 450°F
- Self-extinguishing and non-toxic; unaffected by sunlight, ozone, and ultraviolet rays
- Impervious to fungus and mildew; will not deteriorate under normal exposure
- Meets FAR 25.853 Airworthiness Standards for Compartment Interiors

Hinge Jamb   Header   Strike Jamb

Application is acceptable anywhere along jamb face
**S44 shown, but application detail applies to PK33, PK55, S442, S77, S88, S773, and S776 also.
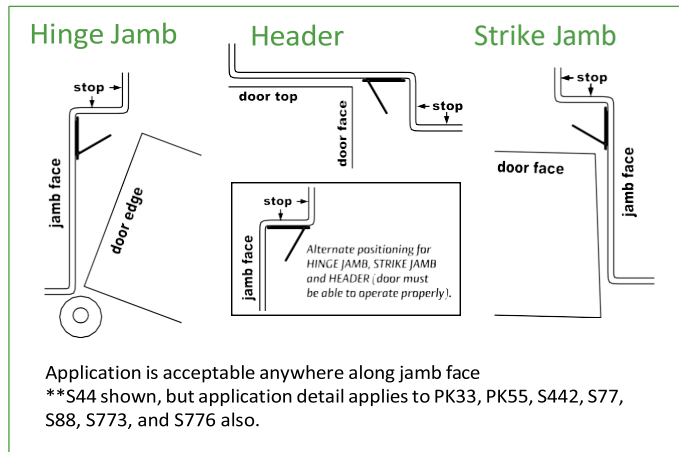
S44_
AVAILABLE FINISHES: **BL, C, D, GR, W**
AVAILABLE LENGTHS: **17', 18' 20', 21', 25', 30', 204', 510'**
ANSI: **R0E154, R0E155**

- Designed for tighter frames
- Demonstrates extremely low closing force
- Seal begins compressing at $5/16$"; compresses to seal up to a $1/16$" gap
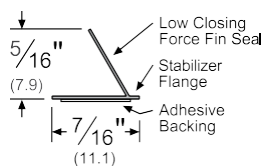
S442_
AVAILABLE FINISHES: **BL, D, GR, W**
AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 510'**
ANSI: **R0E154, R0E155**

- Fits flush into corner
- Seal begins compressing at $5/16$"; compresses to seal up to a $1/16$" gap in either direction
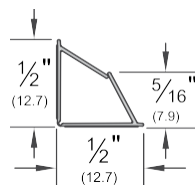
S77_
AVAILABLE FINISHES: **BL, C, D, W**
AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 204', 500'**
ANSI: **R0E154, R0E155**

- Designed for hollow metal and wood meeting stile applications
- Seal begins compressing at $5/16$"; compresses to seal up to a $1/16$" gap
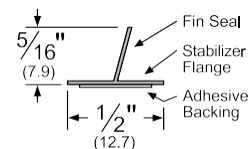
S88_
AVAILABLE FINISHES: **BL, C, D, GR, TAN, W**
AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 204', 510'**
ANSI: **R0E154, R0E155**

- Seal begins compressing at $1/4$"; compresses to seal up to a $1/16$" gap

S773_
AVAILABLE FINISHES: **BL, D, GR, W**
AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30', 250', 500'**
ANSI: **R0E154, R0E155**

- Triple-fin design effectively blocks light and sound from infiltrating a room
- Seal begins compressing at $3/8$"; compresses to seal up to a $1/16$" gap
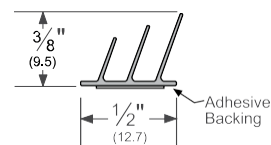
S776_
AVAILABLE FINISHES: **BL**
AVAILABLE LENGTHS: **17', 18', 20', 21', 25', 30'**
ANSI: **R0E154, R0E155**

- Designed for hollow metal and wood meeting stile applications
- Seal begins compressing at $3/8$"; compresses to seal up to a $1/16$" gap
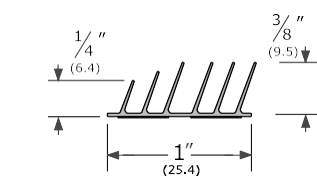
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
BL (Black) **C** (Clear) **D** (Dark Brown) **GR** (Light Gray) **TAN** (Tan) **W** (White)

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Heavy Duty Perimeter Gasketing - Head Section

- For the head section of the frame where a parallel arm closer bracket or other hardware is required. Supplied undrilled (36") or drilled (80" and above) and supplied with sheet metal screws for mounting

- If used as a stop, flat head machine screws can be provided upon request and take a countersunk #10 hole. PEMKO will drill the head member only if drilling instructions for countersink holes are provided

- All gasketing shown below is sold individually

2891_PK
AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **PK47 (BL, GR)**
ANSI: **R3G164, R3G165**
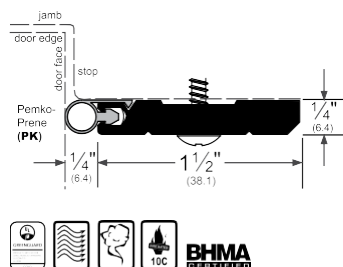
2891_S
AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **S3 (BL, GR, W)**
ANSI: **R3E164, R3E165**
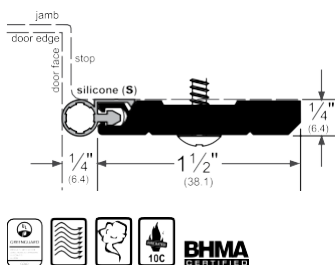
2891_PK
1 per door standard

290_PK
2 per door standard
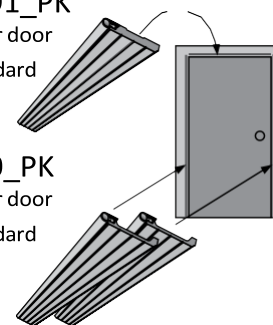
When ordering a head section such as 2891_PK, two corresponding side sections (i.e. 290_PK) should also be ordered for the latch and hinge sides of the frame.

28945_NB
AVAILABLE FINISHES: **A, D, G**
REPLACEMENT INSERT: **P14050 (BL, GR)**
ANSI: **R3A164, R3A165**
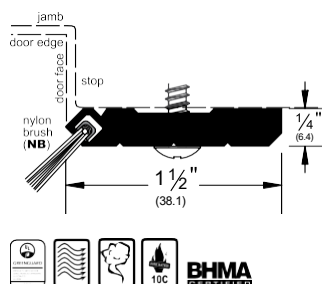
2891_V
AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **EV47 (BL, GR, W)**
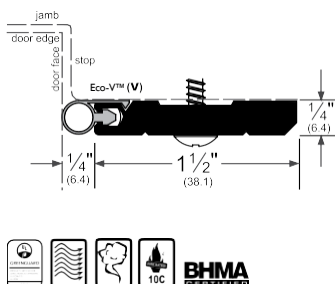
2892_V
AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **EV59 (BL, GR, W)**
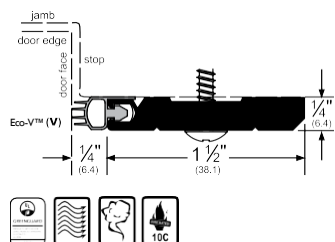
2893_V
AVAILABLE FINISHES: **A, D**
REPLACEMENT INSERT: **EV60 (GR)**
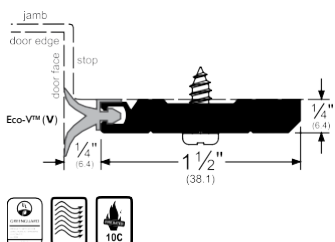
NOTE: Products shown in this section may not be drawn to scale.
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **D** (Dark Bronze Anodized) **G** (Gold Anodized)
Special finishes available upon request

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DOOR SHOES

- Profiles on this page available with PemkoPrene™ (PK) or Eco-V™ (V); both are the same shape and size
- Slotted holes for easy adjustment
- Rain drip model is ideal for deflecting rain away from the bottom of door

- Recommended compression of gasket fins is ¹/16"
- Except where specified otherwise, supplied with 1/4" undercut from length ordered. Specify "NET LENGTH" to receive length as ordered.

216_V
AVAILABLE FINISHES: **A, B, BDG, BSP, D, SN, WSP**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D514**

216_PK
AVAILABLE FINISHES: **A, B, BDG, BSP, D, SN, WSP**
REPLACEMENT INSERT: **PK9 (BL, GR)**
ANSI: **R3G514**
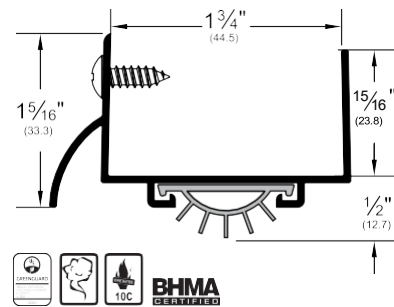
215_V
AVAILABLE FINISHES: **A, BDG, BSP, D, PW, SN**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D514**

215_PK
AVAILABLE FINISHES: **A, BDG, BSP, D, PW, SN**
REPLACEMENT INSERT: **PK9 (BL, GR)**
ANSI: **R3G514**
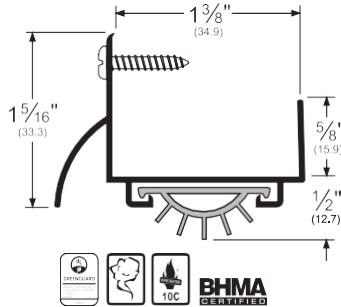
210_V
AVAILABLE FINISHES: **A, BSP, D, PW, SN**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D514**

210_PK
AVAILABLE FINISHES: **A, BSP, D, PW, SN**
REPLACEMENT INSERT: **PK9 (BL, GR)**
ANSI: **R3G514**
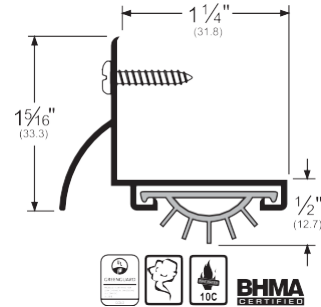
217_V
AVAILABLE FINISHES: **A, BSP, D, G, SN, WSP**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D414**

217_PK
AVAILABLE FINISHES: **A, BSP, D, G, SN, WSP**
REPLACEMENT INSERT: **PK9 (BL, GR)**
ANSI: **R3G414**
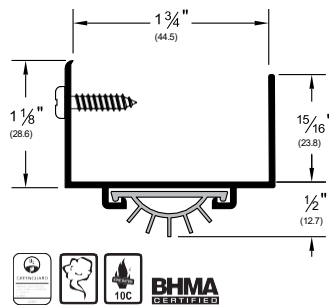
211_V
AVAILABLE FINISHES: **A, BSP, D, G, WSP**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D414**

211_PK
AVAILABLE FINISHES: **A, BSP, D, G, WSP**
REPLACEMENT INSERT: **PK9 (BL, GR)**
ANSI: **R3G414**
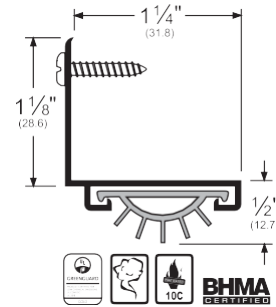
234_V
AVAILABLE FINISHES: **A, BSP, D, G**
REPLACEMENT INSERT: **EV9 (BL, GR)**
ANSI: **R3D414**

234_PK
AVAILABLE FINISHES: **A, BSP, D, G**
REPLACEMENT INSERT: **PK9 (BL, GR)**
ANSI: **R3G414**
- Supplied Net Length (as ordered)
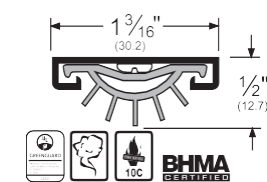
209_V
AVAILABLE FINISHES: **A, BSP, D**
REPLACEMENT INSERT: **EV15 (BL, GR)**
ANSI: **R3D414**
- Supplied Net Length (as ordered)
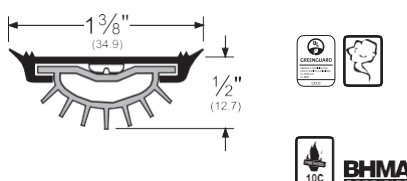
NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE
A (Mill Finish Aluminum) **BDG** (Bright Dip Gold Anodized) **BSP** (Black Suede Powder Coated Aluminum)
D (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White)
SN (Satin Nickel Anodized) **WSP** (White Suede Powder Coated Aluminum)
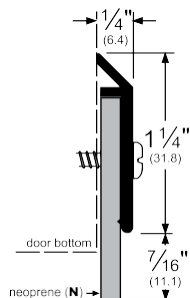
800-824-3018 | www.pemko.com

PEMKO

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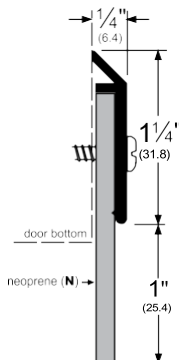
Door Bottom Sweeps

315_N

AVAILABLE FINISHES: **B, C, D, G, PW, SN**
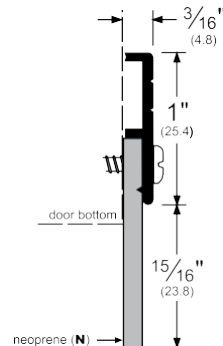REPLACEMENT INSERT: **N8 (BL, GR)**
ANSI: **R3B434, R3B435**

3151_N

AVAILABLE FINISHES: **C, D, G**
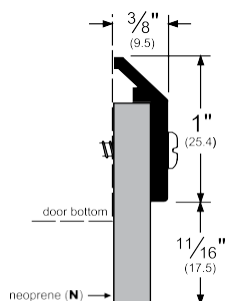REPLACEMENT INSERT: **N9 (BL)**
ANSI: **R3B434**

321_N

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **N8 (BL)**
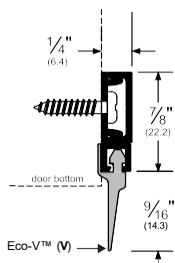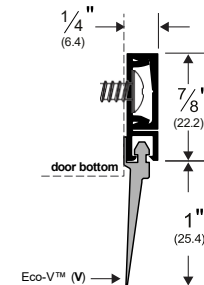ANSI: **R3B434, R3B435**

368_N

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **N10 (BL)**
ANSI: **R3B434, R3B435**

29326_V

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **EV65 (BL, GR, W)**
ANSI: **R3D434**

293100_V

AVAILABLE FINISHES: **C, D, G**
REPLACEMENT INSERT: **EV54 (BL, GR, W)**
ANSI: **R3D434**

NOTE: Products shown in this section may not be drawn to scale.

AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
B (Mill Finish Extruded Bronze [Brass])   **BDG** (Bright Dip Gold Anodized)   **C** (Clear Anodized)
D (Dark Bronze Anodized)   **G** (Gold Anodized)   **PW** (Painted White)   **SN** (Satin Nickel Anodized)

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800-824-3018 | www.pemko.com
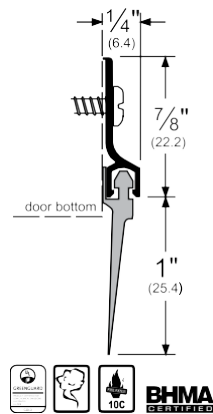*Check the web site for the up-to-date catalog*

Door Bottom Sweeps (Cont.)

307_V
AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
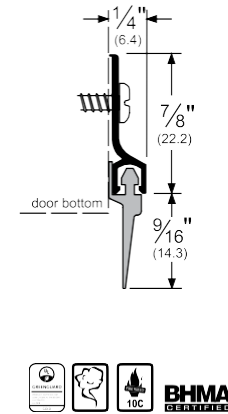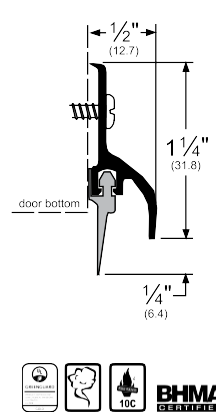**EV54 (BL, GR, W)**
ANSI: **R3D434**

308_V
AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
EV65 (BL, GR)
ANSI: **R3D434**

3452_V
AVAILABLE FINISHES:
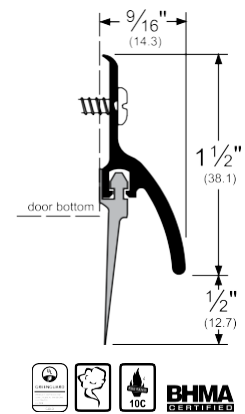**A, BDG, C, D, G, PW, SN**
REPLACEMENT INSERT:
EV65 (BL, GR, W)
ANSI: **R3D534**

345_V
AVAILABLE FINISHES:
A, BDG, C, D, G, PW
REPLACEMENT INSERT:
EV54 (BL, GR, W)
ANSI: **R3D534**

307_PK
AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
PK (BL, GR)
ANSI: **R3G434**

308_PK
AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
PK65 (BL, GR)
ANSI: **R3D434**

3452_PK
AVAILABLE FINISHES:
A, BDG, C, D, G, PW, SN
REPLACEMENT INSERT:
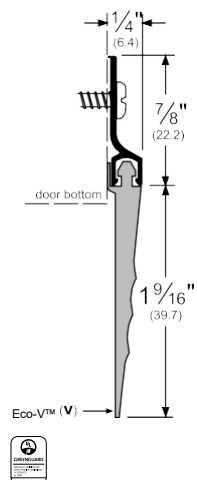**PK65 (BL, GR)**
ANSI: **R3G534**

345_PK
AVAILABLE FINISHES:
A, BDG, C, D, G, PW
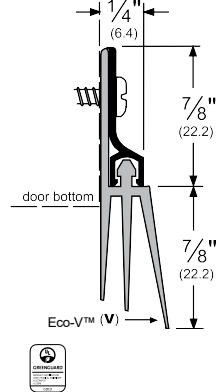REPLACEMENT INSERT:
PK54 (BL, GR)
ANSI: **R3G534**

56_V
AVAILABLE FINISHES:
A, BDG, D, G, PW, SN
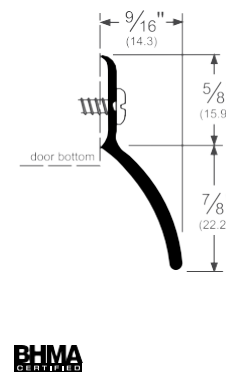REPLACEMENT INSERT:
EV56 (BL, GR)

57_V
AVAILABLE FINISHES:
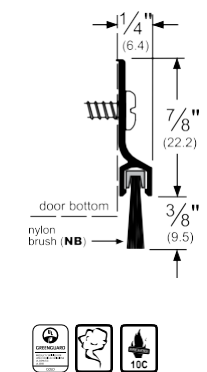**A, BDG, D, G, PW, SN**
REPLACEMENT INSERT:
EV57 (BL, GR)

345_
AVAILABLE FINISHES:
A, B, BDG, C, D, G, PW
ANSI: **R3Y936**

309_P
AVAILABLE FINISHES:
A, BDG, D, G, PW, SN
REPLACEMENT INSERT:
P3 (BL, GR)

NOTE: Products shown in this section may not be drawn to scale.
AVAILABLE FINISHES FOR PRODUCTS SHOWN ON THIS PAGE (see General Information section for finish chart)
A (Mill Finish Aluminum) **B** (Mill Finish Extruded Bronze [Brass]) **BDG** (Bright Dip Gold Anodized)
C (Clear Anodized) **D** (Dark Bronze Anodized) **G** (Gold Anodized) **PW** (Painted White)
SN (Satin Nickel Anodized)

800-824-3018 | www.pemko.com
Check the web site for the up-to-date catalog
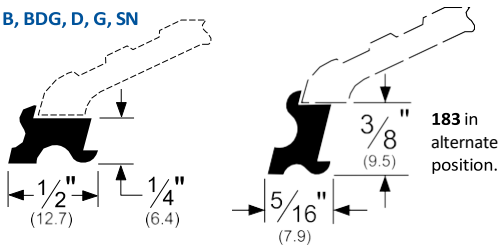
ASSA ABLOY

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Elevators

- Elevators allow for custom sizing on offset conditions.

183_

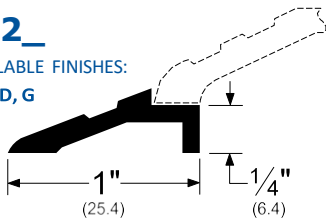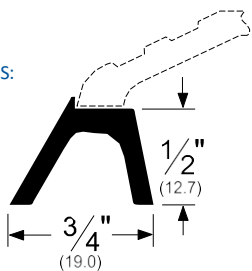AVAILABLE FINISHES:
A, B, BDG, D, G, SN

$\frac{1}{2}$"
(12.7)

$\frac{1}{4}$"
(6.4)

$\frac{3}{8}$"
(9.5)

183 in alternate position.

$\frac{5}{16}$"
(7.9)

282_

AVAILABLE FINISHES:
A, B, D, G

1"
(25.4)

$\frac{1}{4}$"
(6.4)

188_

AVAILABLE FINISHES:
A, B, BDG, D, G, SN

$\frac{1}{2}$"
(12.7)

$\frac{3}{4}$"
(19.0)

283_

AVAILABLE FINISHES:
A, B, D, G

$\frac{1}{2}$"
(12.7)

$1\frac{1}{4}$"
(31.8)
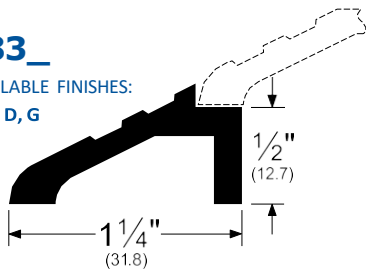
Thermal Barrier Saddles

- Black rigid vinyl key between extrusions provides a thermal barrier (designated by " FG" Frost Guard following finish code).

273X4_FG

AVAILABLE FINISHES: **A, B, D, G**

274X4_FG

AVAILABLE FINISHES: **A, B, D, G**

255X5_FG

AVAILABLE FINISHES: **A, B, D, G**

- Sections are symmetrical.

NOTE: Products shown in this section may not be drawn to scale.

ASSA ABLOY
Opening Solutions

Architectural
Door Accessories

Experience a safer
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Double Swing Hinge with
Emergency Release Stop

Designed for safety and reliability in healthcare environments

The Double Swing Hinge with Emergency Release Stop is an innovative healthcare solution that permits quick door opening in an emergency situation. A double swing continuous hinge is combined with an emergency release stop to provide additional safety features that are easy to use and help minimize risk.

ASSA ABLOY offers two styles of double swing hinges and two styles of emergency release stops. The Markar Double Swing Hinge features a pin and barrel style hinge and the Pemko Double Swing Hinge features a gear style hinge. Both double swing hinge styles have a unique 100º swing that allows the door to swing in either direction.

The two models of the Pemko Emergency Release Stop feature either a special flush bolt or a multipoint latch. Both models provide the functionality to release the stop in an emergency situation, allowing the door to be opened in the opposite direction. The stops are used on the strike edge of the door and come standard with hospital tip to complete the solution.

The Double Swing Hinge and Emergency Release Stop are accepted by the New York State Office of Mental Health (OMH) for use in high risk areas.

Applications:

- Healthcare Facilities
- Behavioral Health
- Assisted Living
- Food Service
- Hospitals

| Features	Benefits
Double-swing design opens 100°	Opens wide in either direction
Continuous hinge	Proper alignment and weight distribution extend the life of the door
Emergency release	Quickly releases stop in an emergency situation
Hospital tip	Provides a safer environment for hospitals and healthcare facilities
CMS Compliant	Eliminating additional ligature points ensures compliance for reimbursement through CMS (Centers for Medicare and Medicaid Services)

Pemko ERS with Multipoint

Pemko ERS with special Flush Bolt
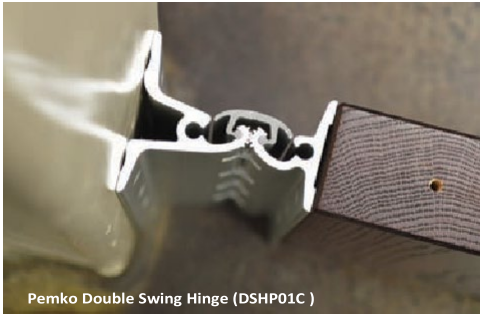
Pemko Double Swing Hinge (DSHP01C)

Markar Double Swing Hinge (DSH1000)

The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY
Opening Solutions

Healthcare Solutions

ASSA ABLOY designs and manufactures products to improve safety and mitigate risk in behavioral healthcare and assisted living environments. Applications include patient rooms, patient bathrooms and cross corridor bathrooms.

Combine complementary products from ASSA ABLOY Group brands to form an optimal healthcare door opening solution.

The Double Swing Hinge and Emergency Release Stop are accepted by the New York State Office of Mental Health (OMH) for use in high risk areas.

Double Swing Hinge: DSH_

Hinge Size	Opening	Gear Hinge Clear Anodized	Pin & Barrel Hinge Clear Anodized
84"	7' 0"	DSHP01C-84	SH1000-84C
96"	8' 0"	DSHP01C-96	DSH1000-96C
120"	10' 0"	DSHP01C-120	DSH1000-120C

Emergency Release Stop: ERS_

Hinge Size	Opening	Flush Bolt Clear Anodized Left Hand	Flush Bolt Clear Anodized Right Hand	Multipoint Latch Clear Anodize Left Hand	Multipoint Latch Clear Anodize Right Hand
84	7' 0	RS84CxHT-L	RS84CxHT-R	ERSMP84C-LH	ERSMP84C-RH
96"	8' 0"	ERS96CxHT-LH	ERS96CxHT-RH	ERSMP96C-LH	ERSMP96C-RH
120"	10' 0"	ERS120CxHT-LH	ERS120CxHT-RH	ERSMP120C-LH	ERSMP120C-RH

Notes: Minimum 2³/₄" backset for hardware trim.
If ERS is installed on a cased open jamb, an extended lip strike is needed. To avoid using the extended lip strike, use a single rabbet jamb on strike side of frame.

Technical Specifications:

|	
Hinge Material:	6063-T6 Aluminum Alloy
Finishes:	Clear Anodized Aluminum (other finishes available by special request)
Fasteners:	Torx Security Machine Screws
BHMA:	Double Swing Hinge ANSI/BHMA A156.26 certified.
ADA Compliance:	DSH meets the barrier free requirements of ICC/ANSI A117.1-2009 and ADAAG-2010

Note: Although these products are better designed for behavioral health applications than traditional door hinges, they do not eliminate the risk that an object can be affixed to, or around them.
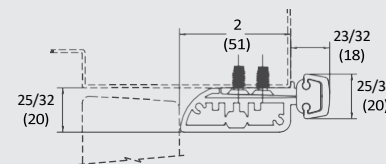
Double Swing Hinge:
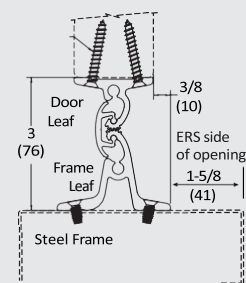
DSHP01C   **DSH1000**
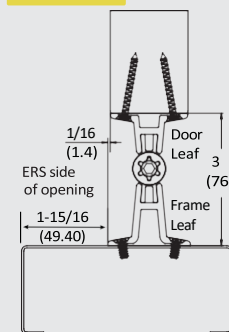
Emergency Release Stop: ERS_

ARCHITECTURAL DOOR ACCESSORIES™

Markar | McKinney | Pemko | Rockwood

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Architectural Door Accessories
5535 Distribution Drive, Memphis, TN 38141
orders.pemko@assaabloy.com
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Memphis, TN USA
P: 800 824-3018
F: 800 243-3656

Ventura, CA USA
P: 800 283-9988
F: 800 283-4050

Vaughan, ON CA
P: 800.461.3007
F: 800.461.8989

Markar 1000 Series Aluminum Pin & Barrel Continuous Hinges

Short Form Architectural Specification:

Continuous hinges shall be full height piano-type hinge providing full height door support.

- Supports weights up to 600 lbs. 4'0" maximum door width
- Material to be extruded aluminum 6063-T6 alloy
- .250" diameter stainless pin (rod)
- Each knuckle 4", including nylon bearing at each separation for a quiet, smooth, self-lubricating operation
- Finish: Clear Anodized (628)
  Optional Finish: Light Bronze Anodized (311), Dark Bronze Anodized (313) Black Anodized (315), Scratch-Resistant Powder Coated Paint. Other finishes available upon request.

- All hinges shall be furnished with manufacturer's recommended hardware pack per specific model application
- Exterior barrel diameter .750" (¾")
- Hinges certified ANSI/BHMA Standard A 156.26 Grade 1
- Symmetrically templated hole pattern

NOTE: 25-Year Warranty on all Continuous Pin & Barrel Hinges

Markar DSH1000 Double Swing Hinge

Standard Features

Barrel Type Hinge
.250" diameter stainless steel pin (rod)
Medical bearings
Material
6063-T6 aluminum alloy
Finishes
Clear Anodized (628)

Standards
ANSI/BHMA Standard A156.26 Grade 1
Mounting Hardware
12-24 x ¹¹/₁₆" Torx Flat Head Undercut TEK Screws
#12-8 Torx Flat Head Particle Board Screw
Capacity
Supports weights up to 600lbs. 4'0" maximum door width

Standard Sizes
7'0", 8'0"
Hole Pattern
Symmetrically templated
Handing
Handing not required
CMS Compliant
Eliminating additional ligature points ensures compliance for reimbursement through CMS (Centers for Medicare and Medicaid Services)

Optional Features

Finishes
Light Bronze Anodized (311)
Dark Bronze Anodize (313)
Black Anodized (315)
Scratch-Resistant Powder Coated Paint

Other Features
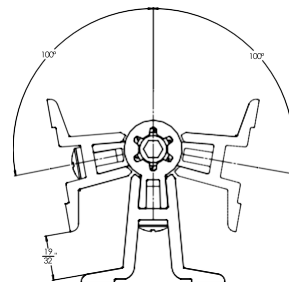Custom lengths - specify in inches
Custom hole pattern

Electrical Modifications
ElectroLynx®
SER4 (4 wire), SER8 (8 wire), SER12 (12 wire)

This door edge mounted aluminum pin & barrel type hinge has a unique feature that allows the door to swing in either direction up to 100°. When used in conjunction with Pemko Emergency Release Stop (ERS) provides an anti-barricade system

*The Double Swing Hinge and Emergency Release Stop are accepted by the **New York State Office of Mental Health (OMH)** for use in high risk areas.*
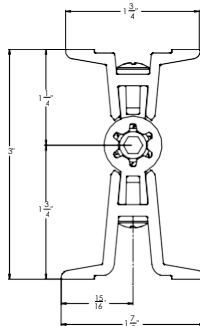
Door Closed   *Door Open 100° Either Direction*

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ASSA ABLOY
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PEMKO
ERS - EMERGENCY RELEASE STOP

Example: ERS <u>MP</u>   <u>84</u>   <u>C</u> - <u>NOTCH</u> x <u>HT</u> - <u>RH</u>
                | | | | | |
             Profile Length Finish   Cutout   Hospital Tip Handing

23/32"
(18.3)

1 31/32"
(50.0)

25/32"
(19.8)

PROFILE: Leave Blank or MP
  Leave Blank: Standard ERS with top flush bolt
  MP: Multi-Point Latching into frame rabbet

LENGTH: 84" (2134 mm), 96" (2438 mm) or 120" (3048 mm)

FINISH: **C** (Clear Anodized)

CUTOUT: **Notch:** Mandatory for all ERS for ease of access and also helps doors with
  locking hardware back set of 2 3/4".
  **Type of Notch specified by factory based on locking hardware and
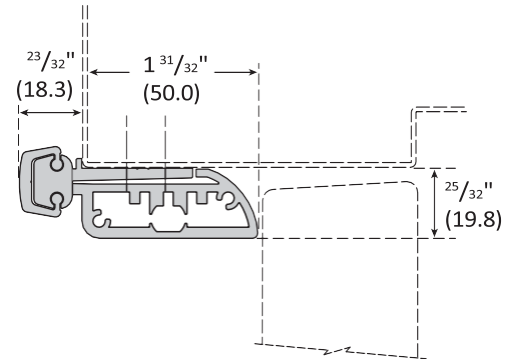 trim (NPXXL not available on ERSMP)**
  ***Notch: cut -out in ERS to clear hardware trim on door**

HT: Hospital Tip (Standard)

HANDING: Door hand (ERS hand is same as door hand)
  RH: Right Hand
  LH: Left Hand

MATERIAL: 6063-T6 Aluminum

FASTENERS: All fasteners secure the ERS to the frame using security torx flat head machine screws.

FINISH: **C** (Clear Anodized Aluminum)
  (BHMA 628) in accordance with 204-R1 (AA-M12C22A31) clear

WEIGHT: 1.19 Ibs/in.

LOCKING METHOD:
  ERS: Top flush bolt
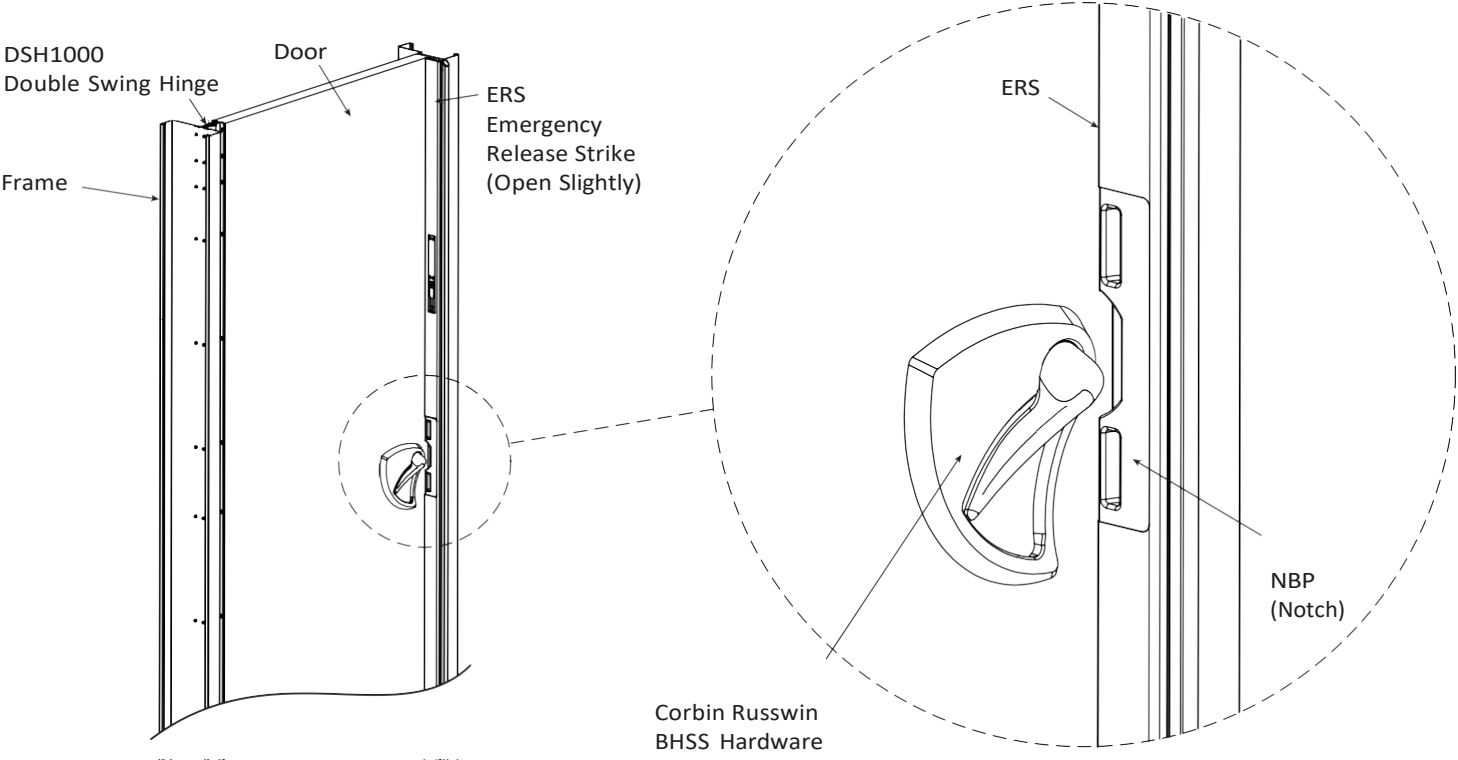 ERSMP: Two point locking

OMH Approved

OMH (New York State Office of Mental Health) Approved with the DSH1000 as Anti-Barricade System

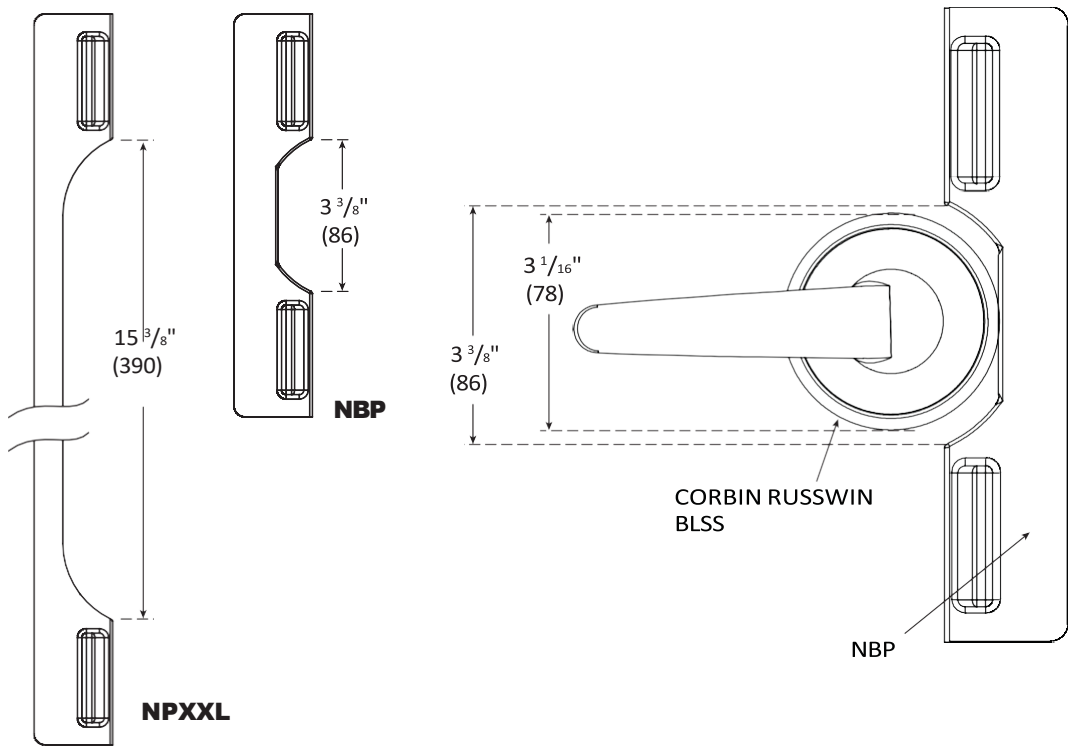**CMC Compliant (Centers for Medicare and Medicaid Services)**
  Eliminates additional ligature points ensure compliance for reimbursement through CMS
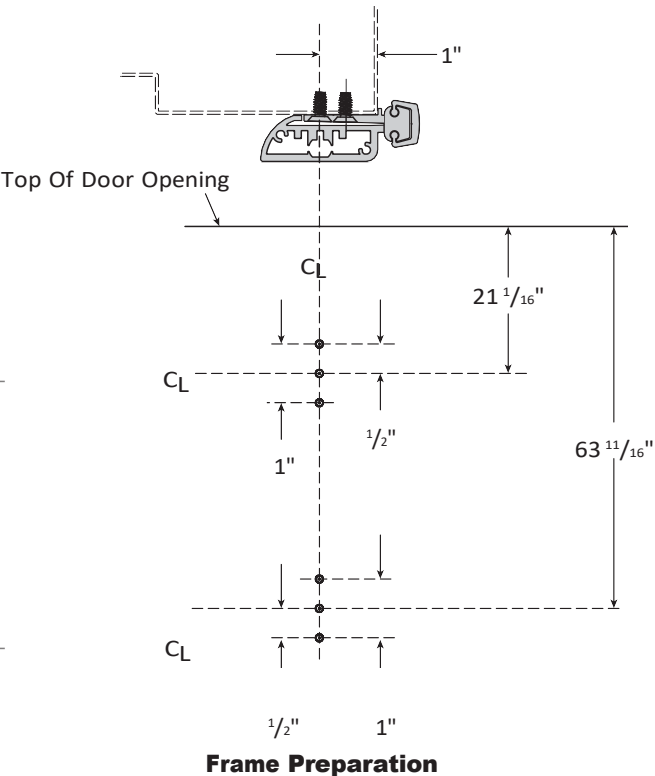
Drawing for ERS-TS

DSH1000
Double Swing Hinge

Door

Frame

ERS
Emergency
Release Strike
(Open Slightly)

ERS

NBP
(Notch)

Corbin Russwin
BHSS Hardware

ERS Notches

ERS: NPXXL and NBP
ERSMP: NBP only

$3\,^3/_8$" (86)

$15\,^3/_8$" (390)

NBP

NPXXL

$3\,^1/_{16}$" (78)

$3\,^3/_8$" (86)

CORBIN RUSSWIN
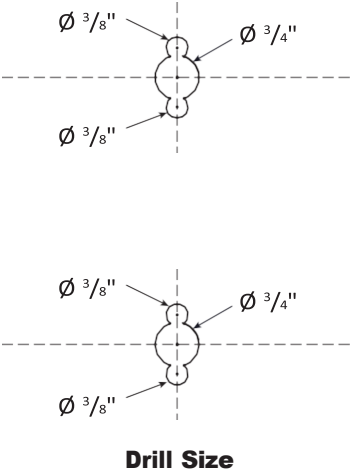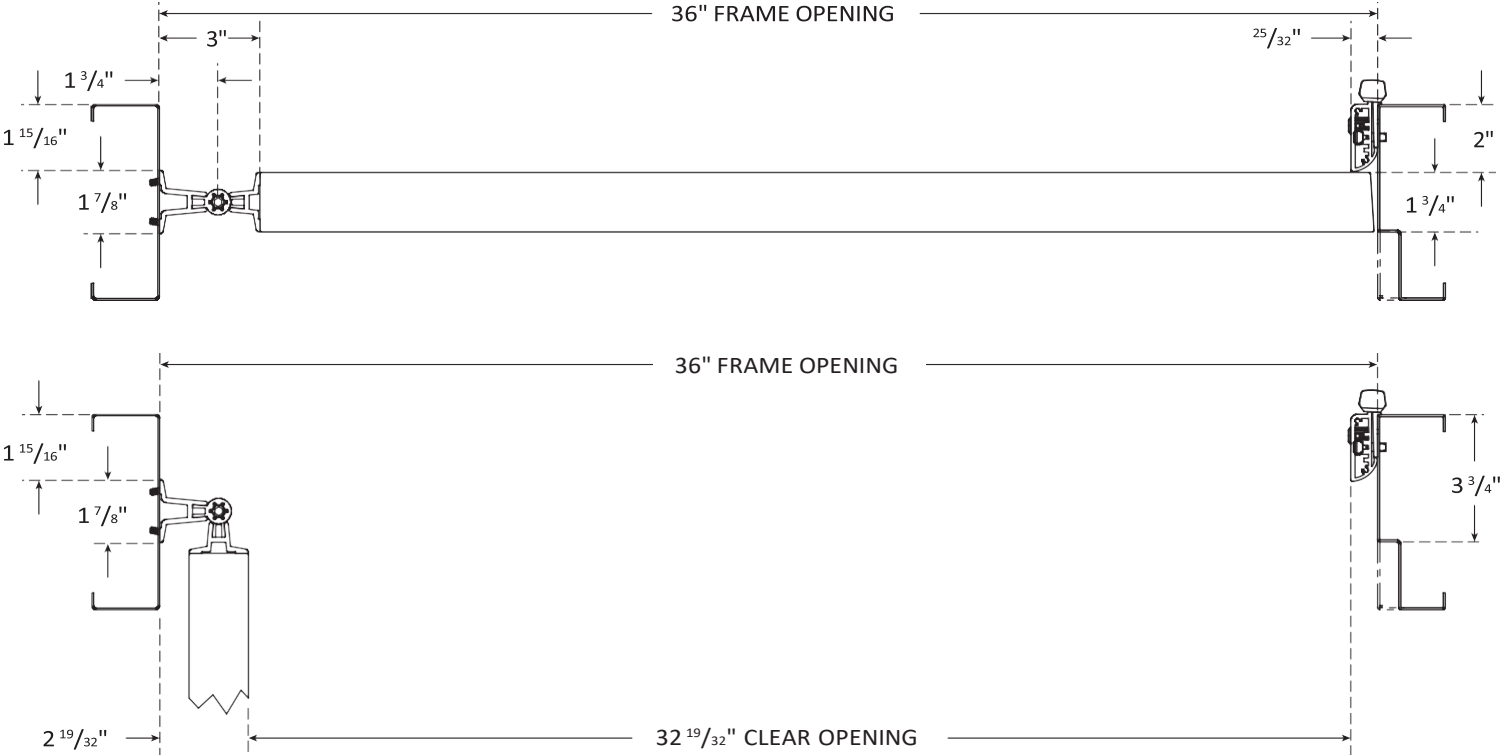BLSS

NBP

The ERS notches are designed to clear a variety of door hardware trim with a $2\,^3/_4$" backset. For example the NBP notch is large enough to clear most cyclindrical locking levers with rose trim, including the Corbin Russwin Behavioral Health Series Lever (BLSS).

ERSMP - Emergency Release Stop MultiPoint Frame Preparation

1. Using a $^1/_8$" drill bit, drill pilot holes at the six location laid out from step 1. As shown in the Drill Size diagram below, enlarge each hole using a $^3/_8$" drill bit. Then enlarge the two center holes, using a $^3/_4$" drill bit. Each of the two preps should resembles the two preps shown in the Drill Size diagram.

1"

Top Of Door Opening

C_L

C_L

$21\,^1/_{16}$"

$^1/_2$"

1"

$63\,^{11}/_{16}$"

C_L

$^1/_2$"   1"

Ø $^3/_8$"   Ø $^3/_4$"

Ø $^3/_8$"

Ø $^3/_8$"   Ø $^3/_4$"

Ø $^3/_8$"

Drill Size

Frame Preparation

ERS-TS Technical Specification Drawing

36" FRAME OPENING

3"

$^{25}/_{32}$"

$1\,^3/_4$"

$1\,^{15}/_{16}$"

$1\,^7/_8$"

2"

$1\,^3/_4$"

36" FRAME OPENING

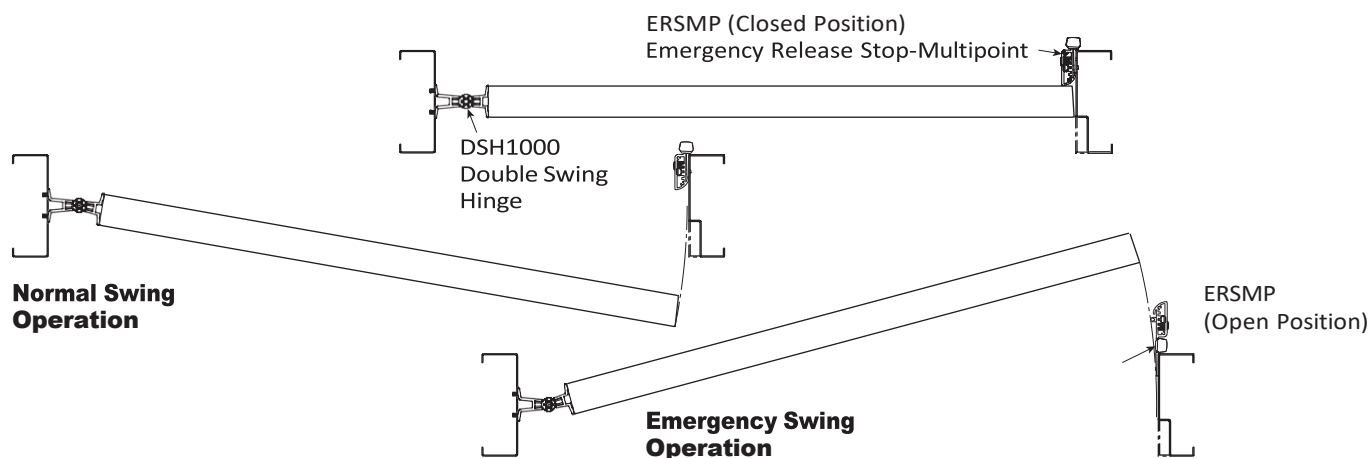$1\,^{15}/_{16}$"

$1\,^7/_8$"

$3\,^3/_4$"

$2\,^{19}/_{32}$"

$32\,^{19}/_{32}$" CLEAR OPENING

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, mechanical and smart locks, access control and service.

ASSA ABLOY

ERS-TS Technical Specification Drawing

ERSMP (Closed Position)
Emergency Release Stop-Multipoint

DSH1000
Double Swing
Hinge

Normal Swing Operation

ERSMP
(Open Position)

Emergency Swing Operation

If using a cased open frame, you will require an extended lip strike due to the

placement of the door strike and the ERS installed on the frame on the corridor side.

NOTE: Rebate only on the lock side of the door for using standard lip strike.

$^1/_8$"

2"

Case Frame
Strike Side

$^1/_8$" Min.
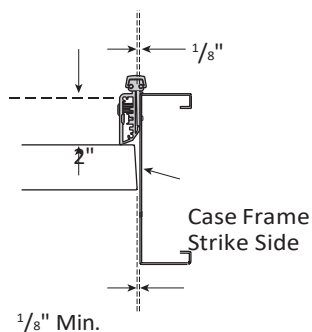
As an option, you can use a single rabbet on the lock side only (you still need

cased open on top and hinge side) so that you can use a standard strike in lieu of an extended lip strike. (notice the door will not hit the stop like a typical single rabbet jamb).

Single
Rabbet
Jamb

ERS

Strike
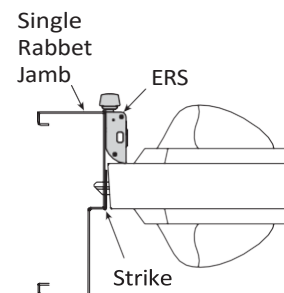
Care And Maintenance

CLEANING: Pemko's aluminum products and solid gasket products can be cleaned with a mild soap with warm water. A clean non-abrasive cloth should be used to clean the surface of these products. For removing grease, sealant, or other minimal adhesives a mild solvent such as mineral spirits may be used; then clean with mild soap mixed with warm water. To dry, either allow to air dry or wipe dry with a chamois, squeegee, or lint-free cloth.

For sponge gasket and weatherstrip products, wipe with a damp cloth. Do not use mineral spirits or other chemical as this may cause the plastic to "melt" or deteriorate. To dry, allow to air dry or wipe dry with a chamois, squeegee, or lint-free cloth.

The use of strong solvents or cleaner concentrations may cause damage to the finish surface and isn't recommended.

MAINTENANCE: Pemko products are generally low-maintenance and require nothing more than general cleaning. Should anything outside of "general cleaning" arise, please consult Pemko Customer Service. If you have any questions, or if you have a situation outside this scope, please contact Pemko Customer Service.

Pemko
5535 Distribution Dr.
Memphis, TN 38141
www.pemko.com

Memphis, TN USA
P: 800 824 3018
F: 800 243 3656

Ventura, CA USA
P: 800 283 9988
F: 800 283 4050

Vaughan, ON CA
P: 800 461 3007
F: 800 461 8989

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Every day, we help billions of people experience a more open world.

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