

Catalog Cuts

for

Highview Park Field Reno

Sorted By DHI Sequence

Prepared By  
Stuart Brodie

Created 04/17/2019

## Summary Header Text

Mfr	Catalog Number	Description	ItemID	Page #	Cut
IVE	5BB1 114X102MM	HINGE		4	IVE_0250.PDF
IVE	5BB1 127X114MM	HINGE		4	IVE_0250.PDF
IVE	5BB1HW 127X114MM NRP	HINGE		5	IVE_0251.PDF
IVE	5BB1HW 114X114MM NRP	HINGE		5	IVE_0251.PDF
SCH	ND80PD RHO	STOREROOM LOCK		6	SCH_0048.PDF
SCH	ND40S RHO	PRIVACY LOCK		6	SCH_0048.PDF
SCH	B663P	CLASSROOM DEADBOLT		34	SCH_0006.PDF
VON	JB7	INTERFACE BOX		40	VON_0122.PDF
VON	6211 FS	ELECTRIC STRIKE		41	VON_0193.PDF
IVE	8103EZHD 255MM STD	DOOR PULL, 1" ROUND		49	IVE_0121.PDF
IVE	8200 100X405MM CFT	PUSH PLATE		50	IVE_0127.PDF
IVE	8200 100X405MM	PUSH PLATE		50	IVE_0127.PDF
IVE	8190EZHD 255MM STD	90 DEG OFFSET PULL		51	IVE_0263.PDF
GLY	90S	OH STOP		54	GLY_0003.PDF
GLY	100S ADJ	OH STOP		58	GLY_0004.PDF
LCN	4040XP SCUSH ST- 3068	SURFACE CLOSER		62	LCN_4040XP.PDF
LCN	9142	SURF. AUTO OPERATOR		71	LCN_0008.PDF
LCN	8310-869F	FLUSH MOUNT BOX		76	LCN_0041~LCN_0045.PDF
LCN	8310-876	ESCUTCHEON		76	LCN_0041~LCN_0045.PDF
LCN	8310-852	ACTUATOR, WALL MOUNT	6" ROUND	79	LCN_0045.PDF
IVE	8400 255MM X 50MM LDW B-CS	KICK PLATE		81	IVE_0223.PDF
IVE	8400 255MM X 40MM LDW B-CS	KICK PLATE		81	IVE_0223.PDF
IVE	WS406/407CVX	WALL STOP		83	IVE_0141.PDF
IVE	WS406/407CCV	WALL STOP		83	IVE_0141.PDF
ZER	429AA-S X 1@HD / 2@JMB	GASKETING		84	ZER_0124.PDF
ZER	142AA X OPENING WIDTH	RAIN DRIP		85	ZER_0167.PDF
ZER	39A X DOOR WIDTH	DOOR SWEEP		86	ZER_0163.PDF
ZER	626A-223 X OPENING WIDTH	THRESHOLD		87	ZER_0092.PDF
CAM	CX-33	ADVANCED LOGIC RELAY		88	CAM_8009.PDF

CAM	CX-WEC10	EMERGENCY CALL KIT		92	CAM_8014.PDF
IVE	SR64	SILENCER		96	IVE_0148.PDF
SCE	679-05HM	DOOR CONTACT	DPS	97	SCE_0060.PDF
SCE	PS902	POWER SUPPLY		99	SCE_0087.PDF



Meets ANSI/BHMA A156.1  
A8133 – Steel  
A5133 – Stainless Steel  
A2133 – Brass

### 5PB1 5 Knuckle, Plain Bearing Full Mortise Hinge

- For standard weight doors
- Low frequency usage
- Packed with wood and metal screws

*Not for use with a door closer.*

#### Options

- NRP, Non-Removable Pin
- SH, Security Stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fasteners - Pin-in-Socket

#### Dimensions

Size (Inches)	Size (mm)	Gauge
3.5 x 3.5	89 x 89	0.123
4 x 4	102 x 102	0.134
4.5 x 4	114 x 102	0.134
4.5 x 4.5	114 x 114	0.134
5 x 4.5	127 x 114	0.134



Meets ANSI/BHMA A156.1  
A8112 – Steel  
A5112 – Stainless Steel  
A2112 – Brass

### 5BB1 5 Knuckle, Ball Bearing Full Mortise Hinge

- For standard weight doors
- Medium frequency usage
- 2 ball bearing
- Packed with wood and metal screws

#### Options

- NRP, Non-Removable Pin
- SH, Security Stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fasteners - Pin-in-Socket

#### Dimensions

Size (Inches)	Size (mm)	Gauge	Size (Inches)	Size (mm)	Gauge
3.5 x 3.5	80 x 102	0.130	5 x 4.5	127 x 114	0.146
4 x 4	102 x 102	0.130	5 x 5	127 x 127	0.146
4.5 x 4	114 x 102	0.134			
4.5 x 4.5	114 x 114	0.134			

#### Finishes brass

Ives Finish	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	605	606	612	613	614	616	619	625	626

#### Finishes steel

Ives Finish	USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	600	632	633	639	640	641	643	646	651	652

#### Finishes stainless steel

Ives Finish	US32	US32D
BHMA	629	630



Meets ANSI/BHMA A156.1  
A8111 – Steel  
A5111 – Stainless Steel  
A2111 – Brass

## 5BB1HW

### 5 Knuckle, Ball Bearing, Heavy Weight Full Mortise Hinge

- For heavy weight doors
- High frequency usage
- 4 ball bearing
- Packed with wood and metal screws

#### Options

- NRP, Non-Removable Pin
- SH, Security Stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fastners - Pin-in-Socket

#### Dimensions

Size (Inches)	Size (mm)	Gauge	Size (Inches)	Size (mm)	Gauge
4.5 x 4	114 x 102	0.180	5 x 4.5	127 x 114	0.190
4.5 x 4.5	114 x 114	0.180	5 x 5	127 x 127	0.190



Meets ANSI/BHMA A156.1  
A8111 – Steel

## 5BB1WT

### 5 Knuckle, Ball Bearing, Wide Throw Full Mortise Hinge

- For medium weight doors
- Medium frequency usage
- 2 ball bearing
- Packed with wood and metal screws

#### Options

- NRP, Non-Removable Pin
- SH, Security Stud
- HT, Hospital Tip
- RC, Round Corners - 1/4" or 5/8" Radius
- SEC, Security Fastners - Pin-in-Socket

#### Dimensions

Size (Inches)	Size (mm)	Gauge
4.5 x 5	114 x 127	0.134
4.5 x 6	114 x 152	0.134
5 x 6	127 x 152	0.146
5 x 7	127 x 178	0.146
5 x 8	127 x 203	0.146

#### Finishes *brass*

Ives Finish	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	605	606	612	613	614	616	619	625	626

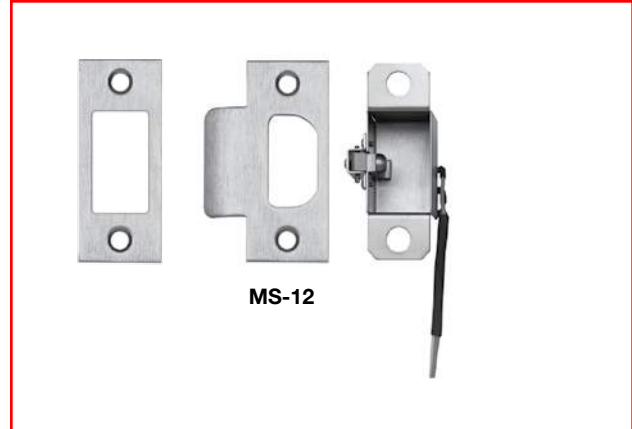
#### Finishes *steel*

Ives Finish	USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	600	632	633	639	640	641	643	646	651	652

#### Finishes *stainless steel*

Ives Finish	US32	US32D
BHMA	629	630

# Latch & Deadbolt Monitoring Strikes



## Compatible with Mechanical, Electrified and Battery Powered

- Cylindrical Locksets
- Mortise Locksets With or Without Deadbolts
- Deadbolts
- Mortise Exit Devices



## APPLICATIONS

- Latch Status & Request-to-Exit Signaling for Mechanical and Electrified Cylindrical and Mortise Locks & Mortise Exit Devices
- Latch Status & Request-to-Exit for Battery Powered Locks
- Deadbolt Status
- Alarm Shunt or Activation
- Interlock and Mantrap Signaling
- Door Ajar or Forced Entry Signaling
- Shared Bathrooms: Ensures Unlocking of Both Doors When Exiting Either Door of a Shared Bathroom
- Delayed Egress Lock Activation, Eliminates Need for Exit Device Switch and No Wires in Door



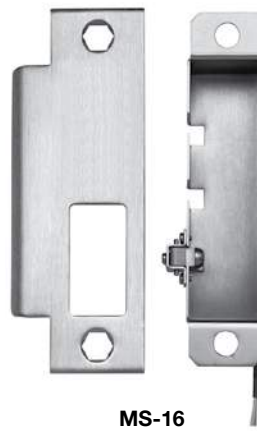
## FEATURES

- For Standard ANSI 2-3/4" or 4.3/4" Strike Plates (Provided by Others)
- Solid Stainless Steel Actuators Installed in Heavy Gauge Strike Back Box
- Unobtrusive, Vandal Resistant Actuators Are Recessed to Inhibit Tampering.
- Field Adjustable for Latch & Bolt Length
- SPDT and DPDT Contacts Available
- All Wiring Maintained in Frame, Eliminating the Need for Power Transfer Devices and Wires in the Door, Maintaining Fire Door Integrity





**MS-14**



**MS-16**



**MS-18**



**MS-20**

Strike plate provided by others



## MODELS



**MS-12**

SPDT Cylindrical latch or tubular deadbolt monitor 2-3/4"



**MS-14**

SPDT Cylindrical latch monitor 4-7/8"



**MS-16**

SPDT Mortise lock latch monitor



**MS-18**

SPDT Mortise lock deadbolt monitor



**MS-20\***

SPDT Mortise lock latch and deadbolt monitor

**MS-12D** DPDT Cylindrical latch monitor 2-3/4"

**MS-14D** DPDT Cylindrical latch monitor 4-7/8"

**MS-16D** DPDT Mortise lock latch monitor

**MS-18D** DPDT Mortise lock deadbolt monitor

**MS-20D\*** DPDT Mortise lock latch and deadbolt monitor

\*MS-20 and MS-20D are handed but reversible

**Contact:** 5 Amps @ 12/24VDC



# ND Series

Grade 1 cylindrical locks

**Mechanical**  
**Wired electrified**  
**Wireless electronic**





# The Schlage® ND Series cylindrical locks

Walter Schlage invented the cylindrical lock in 1920. Since then, Schlage Lock Company has consistently delivered innovation and continuous improvement. In that tradition, we are extremely proud to introduce the redesigned ND Series cylindrical lock.

Most manufacturers' approach to locks ends with simply meeting industry standards like Grade 1. With the Schlage ND, Grade 1 is just the beginning.

## Performance beyond Grade 1

The Schlage® ND family significantly exceeds BHMA Grade 1 requirements for cycle, lever torque, hammer blow, lever pull and other tests. This means confidence that the lock will last—whether the application calls for high abuse resistance or just operation over millions of cycles—without any degradation in performance.

## Comprehensive offering for every opening

Mechanical, wired electrified and wireless electronic solutions allow a common aesthetic and consistent user experience throughout the building while lowering the total cost of ownership.

## World-class design

A proven, easy to install product with extensive function, keying, trim and finish capabilities that work in nearly any applications.



## ND mechanical



### Applications

The Schlage ND is extremely versatile and is regularly used in healthcare, education, government, office, retail and other commercial applications.

With 31 mechanical functions, the ND's range spans from the simple (non-locking passage) to complex (double-cylinder security) to specialized (school time-out lock).

Because the ND uses an ANSI 161 door prep, commonly used across cylindrical locks, it is ideal for both new construction and retrofit applications.

### Key features

- Significantly exceeds ANSI/BHMA A156.2 requirements for Grade 1 cylindrical locks
- 31 mechanical functions (see adjacent columns for wired electrified and electronic options)
- Nine lever designs, two rose designs
- 10 available finishes
- Supports standard, SFIC and FSIC cylinder formats
- Multiple key systems available – open, patented, restricted, geographic exclusive, UL437
- Support for 10 non-Schlage cores (see cylinder section)

## ND wired electrified



### Applications

Wired electrified locks complement the mechanical offering and are typically incorporated into a wired access control system or used independently with a remote access switch (e.g. switch behind a receptionist desk).

The electrified ND is ideally used in:

- high traffic areas, where line power ensures continuous operation
- new construction, where electrified door prep, hinges and wiring can easily be incorporated into the building

### Key features

All mechanical features plus:

- auto-detecting 12-24VDC input
- selectable EL/EU operation
- low 0.23 amp max current draw that allows multiple locks on a single power supply
- low 0.010 amp holding current that eliminates “hot levers” in electrically locked applications
- modular Request to Exit (RX) that can be added at any time
- inventory friendly—one lock supports 12-24V, EL or EU, with or without RX
- six electrified functions for application flexibility

## NDE wireless electronic



### Applications

Wireless electronic locks complete the offering by delivering all of the access control system hardware components required at the door in a single integrated design.

NDE wireless lock applications include:

- retrofit applications where electronic credentials can be used for improved visibility and control
- new construction to expand the scope of access control to interior openings
- low to medium traffic areas, where battery power delivers long life

### Key features

All mechanical features<sup>1</sup> plus:

- Fits standard ANSI 161L mechanical door prep
- Installs in minutes with only a Phillips screwdriver
- Integrated card reader, door position sensor and Request to Exit (RX) switch
- Built-in Bluetooth® enables wireless configuration from smart phones and tablets
- Built-in Wi-Fi enables automatic updates to access rights
- Capable of networked real-time communication<sup>2</sup>
- Up to 2 years of battery life (4 AA)

<sup>1</sup> NDE wireless electronic lock available in seven lever designs, one rose design, and nine finishes only.

<sup>2</sup> Requires ENGAGE™ Gateway and alliance access control software.

## STRONG

The ND Series has been redesigned to make it the strongest cylindrical lock Schlage has ever built.

- No access with minimum 3,100 in-lb abusive lever torque — the equivalent of over 690 lbs applied to the end of a 4 1/2" lever (2.6x BHMA requirements<sup>1</sup>)
- No access with minimum 1,600 lbs offset lever pull for protection against pry bar attacks (8x BHMA requirements<sup>1</sup>)
- No access with minimum 100 vertical impacts<sup>1,2</sup> for protection against sledgehammer attacks (20x BHMA requirements<sup>1</sup>)
- Near zero droop and wobble after 16M cycles (16x BHMA requirements<sup>1</sup>), without the use of set screws or O-rings
- Latch retraction with 200lb preload for confident operation in warped and preloaded doors (4x BHMA requirements)

<sup>1</sup> Beyond grade 1 performance for ND locks with Schlage cylinders only (standard, FSIC & SFIC). Performance with non-Schlage cylinders will exceed BHMA grade 1 requirements but may be less than the performance of products with Schlage cylinders.

<sup>2</sup> Vertical impact testing stopped after 100 blows with no sign of failure or stress.

## SECURE

A strong lock is only part of the security equation—proper key and card access control is equally important.

- Everest 29™ cylinder with S123 keyway is provided standard which prohibits unauthorized key duplication at local stores and is patent protected until 2029
- Available restricted and geographic exclusive keyways for advanced key control
- Available compatibility with 10 different non-Schlage key systems
- SL cylinder option allows SFIC keyway use in a conventional cylinder, providing multiple new keying solutions including geographically exclusive SFIC when paired with Primus XP
- Wired electrified and wireless electronic locks enable the use of electronic credentials for increased visibility and control over access
- Schlage smart credentials with MiFare® DESFire® EV1 technology utilize encryption, mutual authentication and key diversification to ensure the highest levels of security





## ■ SMART

Smart means using innovation to make your project more efficient, flexible, and easier to install and use.

- One platform, three solutions (mechanical, wired electrified, wireless electronic)—same look and feel throughout the building for a common user experience and lower cost of ownership
- Wired electrified lock has autodetecting 12/24V input, selectable EL/EU operation, and plug-in Request to Exit (RX) for installation and inventory flexibility. Energy efficient design allows multiple locks on a single power supply with no "hot levers"
- Wireless electronic locks with ENGAGE™ can be managed with an access control system or with convenient ENGAGE web and mobile applications.
- Wireless electronic locks provide the option to leverage existing network infrastructure for offline or real-time applications
- Can upgrade from ND mechanical lock to NDE wireless electronic with only a screwdriver

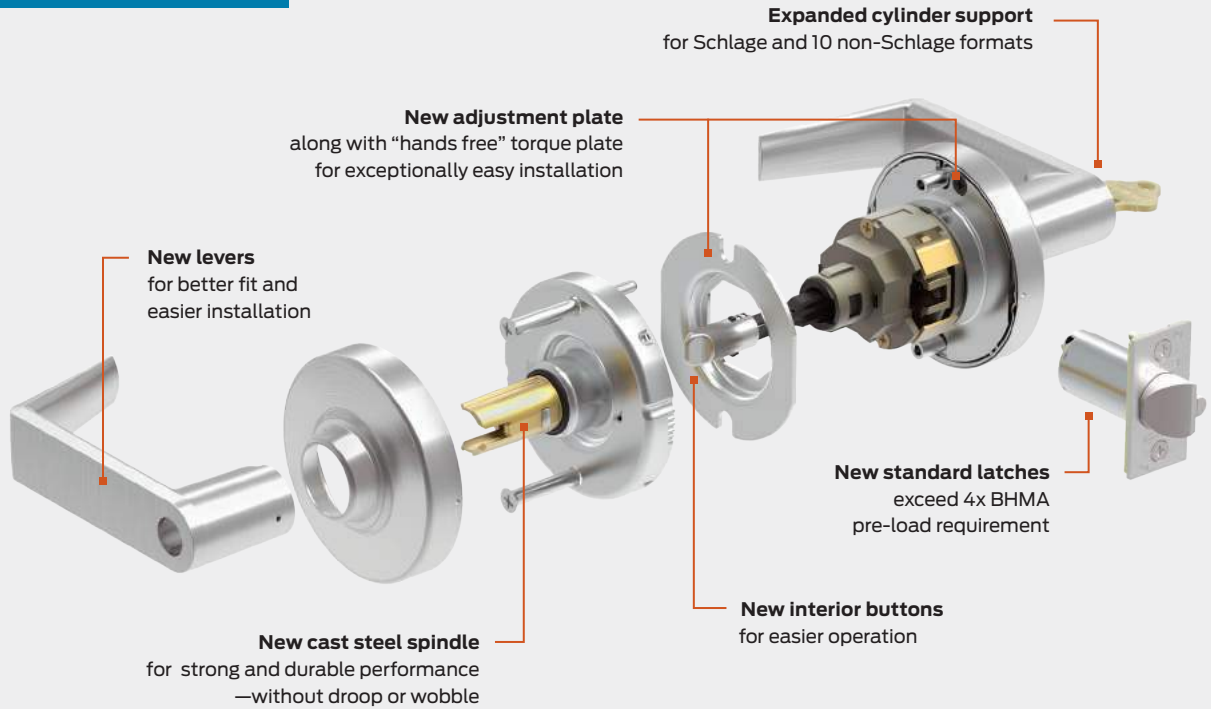


Schlage is more than locks. It's the complete infrastructure of support throughout the entire build and ownership process.

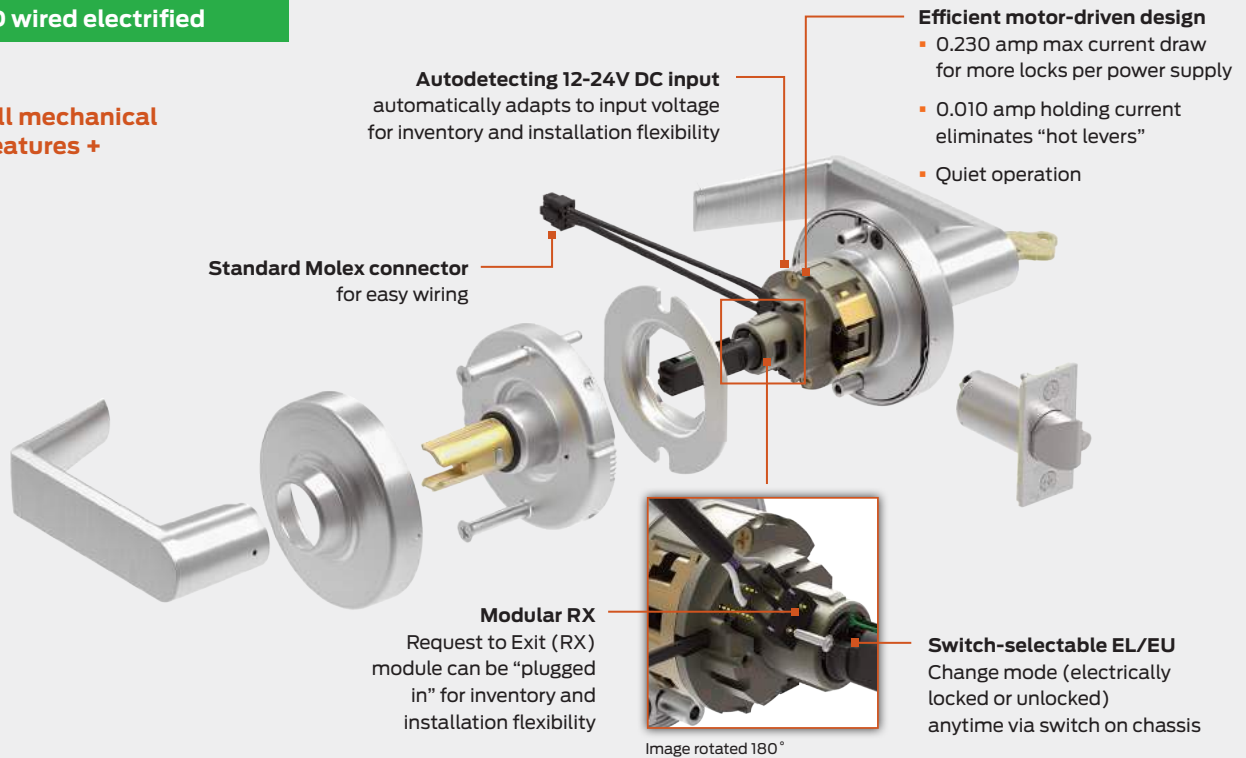
- Order entry, customer service, technical support, engineering and manufacturing co-located in the same building in Colorado Springs, Colorado
- Comprehensive support from our sales offices including consultations, masterkey development and training; industry and code training, specification writing, and product service
- Schlage products suite with other Allegion brands including Von Duprin® exit devices, LCN® door closers, and Steelcraft® doors and frames
- Custom engineering department can develop specialized functions, trim and finishes for unique applications
- Trusted partner for nearly 100 years

## A detailed look...

## ND mechanical

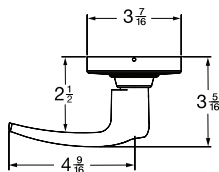


## ND wired electrified

All mechanical  
features +

## Designs and finishes

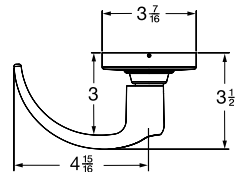
## Lever designs and finishes

Athens (ATH)<sup>2</sup>

Mechanical

Wired electrified

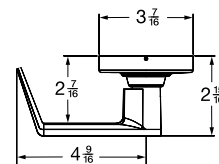
Wireless electronic

Sparta (SPA)<sup>1,2</sup>

Mechanical

Wired electrified

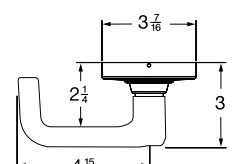
Wireless electronic

Rhodes (RHO)<sup>1,2</sup>

Mechanical

Wired electrified

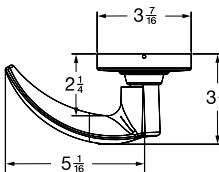
NDE wireless electronic

Tubular (TLR)<sup>1,2</sup>

Mechanical

Wired electrified

Wireless electronic

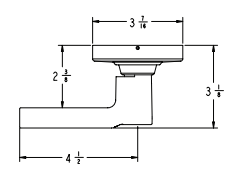
Omega (OME)<sup>1</sup>

Mechanical

Wired electrified

Wireless electronic

Latitude (LAT)

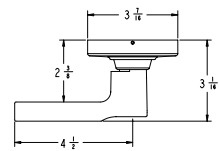


Mechanical

Wired electrified

Wireless electronic

Broadway (BRW)

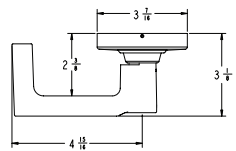


Mechanical

Wired electrified

Wireless electronic

Longitude (LON)

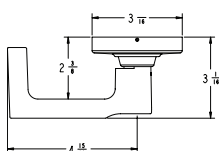


Mechanical

Wired electrified

Wireless electronic

Boardwalk (BWK)



Mechanical

Wired electrified

Wireless electronic

All levers comply with the Americans with Disabilities Act (ADA).

- 1 Boardwalk, Longitude, Omega, Rhodes, Sparta and Tubular levers comply with California State code for return within 1/2" of door face.
- 2 Athens, Rhodes, Sparta and Tubular levers support cylinders from other manufacturers, see cylinder section on page 24 for details.

Finish options									
Color	Bright brass	Satin brass	Satin bronze	Oil rubbed bronze	Satin nickel	Matte black	Bright chrome	Satin chrome	Aged bronze
ANSI/BHMA number	605	606	612	613	619	622	625	626/626AM	643e
US number	US3	US4	US10	US10B	US15	US19	US26	US26D	US11
Mechanical	■	■	■	■	■	■	■	■	■
Wired electrified	■	■	■	■	■	■	■	■	■
Wireless electronic	■	■	■	—	■	■	■	■	■

Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

## Accessibility and life safety

Door hardware should be as effective in helping people go about their lives as it is in securing their environments. The Schlage ND is designed with this requirement in mind.

### Accessibility

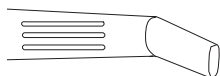
All Schlage ND levers comply with the Americans with Disabilities Act (ADA), which requires that “Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.”



### Tactile warning for the visually impaired

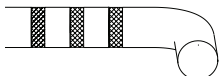
Tactile warning is a special texture applied to the outside lever to alert the visually impaired to a potential hazard on the opposite side of the door (exit to street, a workshop or other hazardous area, etc). Tactile warning is typically applied to the outside lever only, and is specified by an 8 prefix on the lever design.

Milled



Order as follows:  
8AT for Athens  
8RO for Rhodes  
8SP for Sparta  
8LT for Latitude  
8LN for Longitude

Knurled



Order as follows:  
8TR for Tubular  
8BW for Broadway  
8BK for Boardwalk

### Life safety

The Schlage ND is UL listed for use on 3-hour fire doors up to 4'0" x 10'0". The Boardwalk, Longitude, Omega, Rhodes, Sparta and Tubular levers comply with the California State fire code for return to within 1/2" of the door face.

Additionally, the Schlage ND exceeds the BHMA warped door test by 4x. The BHMA standard requires that the latch be able to retract with a 50lb pre-load; the ND can retract the latch with a 200lb preload - providing more range to open the door in the event the opening becomes bound or otherwise compromised.

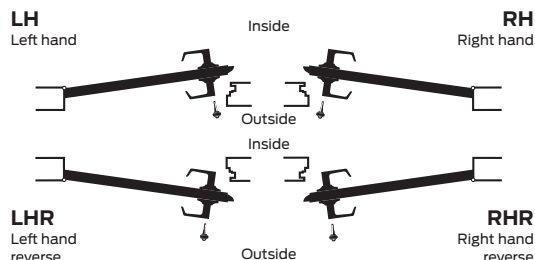
### Classroom security indicator rose

Schlage ND classroom security functions come standard with an indicator rose that clearly identify key rotation direction for rapid lockdown. For ND mechanical classroom security function only.



### Door handing

The ND lock family can be configured during installation to support any door handing. As a result, it is not necessary to specify handing during the ordering process.





# ND Series mechanical lock

The ND mechanical lock, along with being Schlage's best selling mechanical lock, is the foundation for both the wired electrified and NDE wireless electronic lock. Not only did Schlage invent the cylindrical lock, but we continue to make it better with capabilities such as:

- Unparalleled strength - the lock prevents access even when subjected to torque loads up to 3,100 in-lbs (2.6x BHMA<sup>1</sup>), withstands pry bar attacks of 1,600 lbs (8x BHMA requirements<sup>1</sup>), and withstands 100 hammer blows (20x BHMA requirements<sup>1,2</sup>)
- Exceptional durability - cycle tested to over 16M cycles (16x BHMA requirements<sup>1</sup>) with near zero droop or wobble - without the use of set screws or O-rings
- Improved feel - improved strength and durability are more than numbers, you can actually feel it in the lock
- Improved installation - installation is even easier than before (and without any set screws or O-rings)

All this is in addition to what you know and expect with the Schlage ND: 31 mechanical functions (plus wired electrified and wireless electronic) to meet the needs of any application; nine lever designs that suite with other Schlage locks and Von Duprin exit devices; renowned sales, customer and technical support.



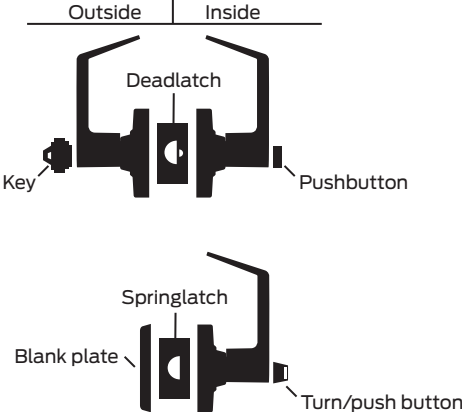
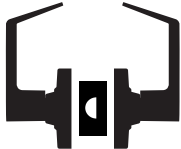
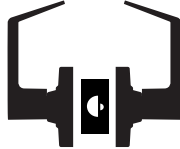




1 Beyond grade 1 performance for ND locks with Schlage cylinders only (standard, FSIC & SFIC). Performance with non-Schlage cylinders will exceed BHMA grade 1 requirements but may be less than the performance of products with Schlage cylinders.

2 Vertical impact testing stopped after 100 blows with no sign of failure or stress.



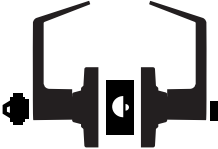
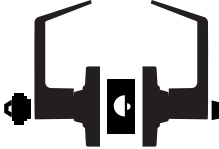
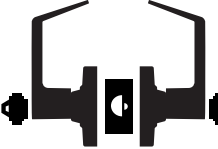



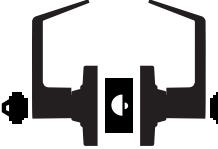

## ND Series mechanical lock

### Keyless function list

<b>Legend</b> 		Schlage                      ANSI <b>ND10S</b> <b>F75</b> <b>Passage latch</b> • Both levers always unlocked.		Schlage                      ANSI <b>ND12D</b> <b>F89</b> <b>Exit lock</b> • Outside lever always fixed. • Inside lever always free for immediate egress.	
		<div>Inside</div>  <div>Available with RX</div>		<div>Outside                      Inside</div>  <div>Available with RX</div>	
Schlage                      ANSI <b>ND25D</b> - <b>Exit lock</b> • Blank plate outside. • Inside lever always free for immediate egress.		Schlage                      ANSI <b>ND40S</b> <b>F76</b> <b>Bath/bedroom privacy lock</b> • Push-button locking. • Unlocked from outside with a small screwdriver. • Turn inside lever or close door to release button. • Inside lever always free for immediate egress.		Schlage                      ANSI <b>ND44S</b> - <b>Hospital privacy lock</b> • Push-button locking. • Unlocked from outside by turning emergency turn-button. • Turn inside lever or close door to release button. • Inside lever always free for immediate egress.	
<div>Outside                      Inside</div> 		<div>Outside                      Inside</div> 		<div>Outside                      Inside</div> 	
				Schlage                      ANSI <b>ND170</b> - <b>Single dummy trim</b> • Dummy trim for one side of door. • Used for door pull or as matching inactive trim.	
				<div>Outside/Inside</div> 	

## ND Series mechanical lock

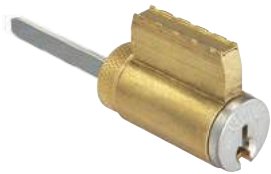
### Keyed function list

<p>Schlage                      ANSI</p> <p><b>ND50PD                      F82</b></p> <p><b>Entrance/office lock</b></p> <ul style="list-style-type: none"> <li>• Push-button locking.</li> <li>• Push-button locks outside lever until it is unlocked with key or by turning inside lever.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside                      Inside</p> 	<p>Schlage                      ANSI</p> <p><b>ND53PD                      F109</b></p> <p><b>Entrance lock</b></p> <ul style="list-style-type: none"> <li>• Turn/push-button locking: Pushing and turning the button locks the outside lever, requiring use of a key until the button is manually unlocked.</li> <li>• Push-button locking: Pushing button locks outside lever until unlocked by key or by turning the inside lever.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside                      Inside</p> 	<p>Schlage                      ANSI</p> <p><b>ND60PD                      F88</b></p> <p><b>Vestibule lock</b></p> <ul style="list-style-type: none"> <li>• Latch retracted by key from outside when outside lever is locked by key in inside lever.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside                      Inside</p> 	<p>Schlage                      ANSI</p> <p><b>ND66PD                      F91</b></p> <p><b>Store lock†</b></p> <ul style="list-style-type: none"> <li>• Key in either lever locks or unlocks both levers.</li> </ul> <p>Outside                      Inside</p> 
<p>Schlage                      ANSI</p> <p><b>ND70PD                      F84</b></p> <p><b>Classroom lock</b></p> <ul style="list-style-type: none"> <li>• Outside lever locked and unlocked by key.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside                      Inside</p> 	<p>Schlage                      ANSI</p> <p><b>ND73PD                      F90</b></p> <p><b>Corridor lock</b></p> <ul style="list-style-type: none"> <li>• Locked or unlocked by key from outside.</li> <li>• Push-button locking from inside.</li> <li>• Turn inside lever or close door to release button.</li> <li>• When outside lever is locked by key it can only be unlocked by key.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside                      Inside</p> 	<p>Schlage                      ANSI</p> <p><b>ND75PD                      -</b></p> <p><b>Classroom security lock</b></p> <ul style="list-style-type: none"> <li>• Key in either lever locks or unlocks outside lever.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside                      Inside</p> 	<p>Schlage                      ANSI</p> <p><b>ND80PD                      F86</b></p> <p><b>Storeroom lock</b></p> <ul style="list-style-type: none"> <li>• Outside lever is fixed.</li> <li>• Entrance by key only.</li> <li>• Inside lever always free for immediate egress.</li> </ul> <p>Outside                      Inside</p>  <p>Available with RX</p>

# Cylinders and key systems

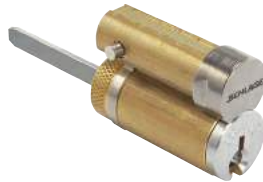
A strong lock is only part of the security solution—proper key control is equally important. Schlage offers extensive options to meet the security needs of the specific project.

## Cylinders



### Conventional KIL cylinder options<sup>1</sup>

- 6-pin length (standard)
- 7-pin length in SL cylinder
- Available in Schlage Classic and Everest 29™ open and restricted keyways
- Primus® XP security features and geographic exclusivity
- Primus XP UL 437 listed high security features
- Hotel cylinder (for use in faculty restroom function)



### Full size interchangeable core (FSIC) options<sup>1</sup>

- 6-pin length
- Available in Schlage Classic and Everest 29 open and restricted keyways
- Interchangeable core compatible with conventional cylinder key systems
- Primus XP security features and geographic exclusivity



### Small format interchangeable core (SFIC) options<sup>2</sup>

- 7-pin combined Everest 29 R restricted keyways<sup>3</sup>
- 6 or 7-pin uncombined Falcon®/Best® keyways<sup>4</sup>

<sup>1</sup> Available in 606, 622, 626 and 643 plug face finishes; Everest 29 S123 keyway standard.

<sup>2</sup> Available 606, 613 (simulated), 622, 626 and 643e finish only.

<sup>3</sup> Restricted keyway cores require authorization from the end user.

<sup>4</sup> Must be ordered separately from lock; not available factory keyed.

## Key systems

### Classic keyway

- Open keyway—keys are duplicated and available without ordering formalities
- Upgradeable to Primus XP and UL 437 levels of security

### Everest 29

- Patented through 2029
- Key duplication is restricted providing a higher level of security for the cylinder
- Can be integrated to an existing Everest B, C, or D system
- Upgradeable to Primus XP and UL 437 levels of security

### Primus XP

- Independent, dual locking mechanisms
- Unique side bit milling on key makes unauthorized duplication highly enforceable
- Allows creation of geographically exclusive keys in a thousand available combinations
- Provides patent protection when applied to Schlage Classic keyways
- Compatible to all Everest and Everest 29 keyways

### Everest 29 SL

- A high security conventional (KIL) cylinder pinned on an A2 system compatible with the Schlage Everest B and Everest 29 R keyways
- Users can expand existing Everest B and Everest 29 R key systems
- Enables Primus XP and UL 437 upgrades on SFIC keyways



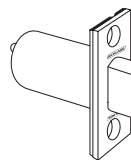
## Lock options

### Latches

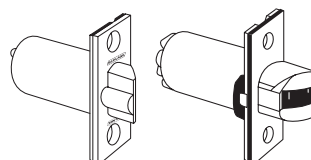
ND latches are adjustable for flat or beveled edge doors, and are finished to match the lock trim. All ND Series latches have 1/2" throw and 1" housings except the anti-friction fire door latch, which has a 3/4" throw. Please see the Schlage pricebook for more options including extended backset strikes (up to 5") and rabbited latch and strike kits.

	Part number	Backset	Description
Springlatch	13-248	2 3/4"	Square corner, 1 1/8" x 2 1/4" (default springlatch)
	14-010	3 3/4"	Square corner, 1 1/8" x 2 1/4"
Deadlatch	14-047	2 3/8"	Square corner, 1 1/8" x 2 1/4"
	14-048	2 3/8"	Square corner, 1" x 2 1/4"
	13-247	2 3/4"	Square corner, 1 1/8" x 2 1/4" (default deadlatch)
	14-042	2 3/4"	Anti-friction fire door latch (3/4" throw)
	14-028	3 3/4"	Square corner, 1 1/8" x 2 1/4"

#### Springlatch



#### Deadlatch



3/4" throw  
anti-friction  
deadlatch  
for pairs of  
fire doors

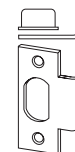
### Strikes

The ND Series is available with both T-Strike and ANSI strikes in a variety of lip lengths to accommodate different door preps.

	Part number	Description
T-strike	10-013 xx	T-strike, square corner, with strike box, 1 1/8" x 2 3/4". Specify lip length (xx) as 1 1/8" or 1 1/2". For ND and wired ND only.
	10-016	T-strike, square corner, with deep strike box, for fire door latch. 1 1/8" x 2 3/4" w/ 1 1/8" lip. For ND and wired ND only.
	10-132 xx	T-strike, square corner, with strike box, DPS magnet, 1 1/8" x 2 3/4". Specify lip length (xx) as 1 1/8" or 1 1/2". For NDE only.
	10-133 xx	T-strike, square corner, with deep strike box, DPS magnet, for fire door latch. 1 1/8" x 2 3/4" w/ 1 1/8" lip. For NDE only.
ANSI	10-025 xx	ANSI, no box, 1 1/4" x 4 7/8". Specify lip length (xx) as 1 3/16", 1 3/8" or 1 1/2" (1 3/16" lip is default strike). For ND and wired ND only.
	K510-066	Box for ANSI strike.
	10-130 xx	ANSI, no box, DPS magnets, 1 1/4" x 4 7/8". Specify lip length (xx) as 1 3/16", 1 3/8" or 1 1/2" (1 3/16" lip is default strike). For NDE only.

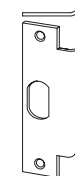
#### T-strike

(10-013)  
1 1/8" x 2 3/4" x 3/32"



#### ANSI strike - standard

(10-025)  
1 1/4" x 4 7/8" x 3/32"



### Non-Schlage cylinders

The ND lock can accommodate cylinders from a variety of manufacturers, provided it is specified when ordering the lock.

Cylinder type	Cylinder code
Sargent KIL <sup>1</sup>	L-SAR
Sargent FSIC <sup>1</sup>	J-SAR
CR KIL <sup>1</sup>	L-CO6
CR FSIC <sup>1</sup>	J-CO6
CR FSIC 7-pin <sup>2</sup>	J-CO7

Cylinder type	Cylinder code
Yale FSIC <sup>1</sup>	J-YA6
Yale FSIC 7-pin <sup>2</sup>	J-YA7
Medeco 31 <sup>1</sup>	J-YA6
Medeco 32 <sup>1</sup>	J-MED
Best	see SFIC cylinder instructions page 25

<sup>1</sup> Available in ATH, RHO, SPA, TLR lever designs only.

<sup>2</sup> CR and Yale FSIC 7-pin available RHO only.

## Ordering instructions

### Example

Function + cylinder		Outside		Inside		Door				
		Lever	Finish	Lever	Finish	Latch	Strike	Thickness	Extension	Dimension
Mechanical	ND53PD	ATH	626							
Wired electrified	ND80EUL	RHO	605	SPA	619	14-048	10-013	214	EE	118
Wireless electronic	NDE80BD	SPA	619							

### Detail

Function	Mechanical: Wired electrified: Wireless electronic:	See pages 12-17 See pages 18-19 NDE80; see pages 20-21
Cylinder	Standard: P (Patented Everest 29) L (less cylinder) C (less double cylinder) Z (Everest SL)	Full size Interchangeable (FSIC): R (FSIC, Patented Everest29) J (FSIC, less core) T (FSIC, Construction Core)  Small format Interchangeable: GD (SFIC, Patented Everest 29) BD (SFIC, less core) BDC (SFIC, disposable core) HD (SFIC, construction core)
For non-Schlage cylinders please see page 24		
Outside lever	ATH (Athens), RHO (Rhodes), SPA (Sparta), TLR (Tubular), OME (Omega), LAT (Latitude), LON (Longitude), BRW (Broadway), BRK (Boardwalk)  Note: Specify tactile as: 8AT (Athens), 8RO (Rhodes), 8SP (Sparta), 8TR (Tubular), 8LT (Latitude), 8LN (Longitude), 8BY (Broadway), 8BK (Boardwalk)	
Outside finish	605    Bright brass (US3) 606    Satin brass (US4) 612    Satin bronze (US10) 613    Oil rubbed bronze (US10B) <sup>1</sup> 619    Satin nickel (US15) 622    Matte black (US19) 626    Satin chrome (US26D) 626AM Satin chrome anti-microbial 625    Bright chrome (US26) 643e   Aged bronze (US11)  <sup>1</sup> Not available NDE wireless electronic	
Inside lever	Specify only if different from outside lever. Same options as outside lever.	
Inside finish	Specify only if different from outside finish. Same options as outside finish.	
Latch	Specify only if different from standard latch; see page 24 for options.	
Strike	Specify only if different from standard strike; see page 24 for options.	
Door thickness	Specify only if outside standard door range (1 5⁄8"-2 1⁄8"). Extended door thickness not available NDE wireless electronic.	
Extension	Specify only for doors 2 1⁄8" or greater. Example: EE = Extended Equally, EI = Extended Inside, EO = Extended Outside, ED = Extended Differently	
Dimension	Specify only for non-standard strike lip length.	
Options	Specify any additional requirements or options. Example: KA = Keyed Alike, KD = Keyed Different, Obit, etc.	

## Product specifications

		ND mechanical and ND wired electrified	NDE wireless electronic
Chassis	Material	Modular design of zinc and steel components plated for corrosion protection	
	Door thickness	Standard: 1 <sup>5</sup> / <sub>8</sub> " to 2 <sup>1</sup> / <sub>8</sub> " Optional: 1 <sup>3</sup> / <sub>8</sub> " - 6" EE, EO, EI, ED configurations	Standard - 1 <sup>5</sup> / <sub>8</sub> " to 2"
Trim	Handing	Non-Handed	Default to Right Hand, configurable without tools
	Levers	Standard: Nine designs, pressure cast zinc, plated to match product finish specification Optional: Tactile feature - Athens (ATH), Rhodes (RHO), Sparta (SPA), Tubular (TLR), LAT (Latitude), LON (Longitude), BRW (Broadway), BRK (Boardwalk)	
	Roses	Wrought brass, bronze, or zinc, plated to match product finish specification	Zinc, plated to match product finish specification
	Finishes	10 available (605, 606, 612, 613, 619, 622, 625, 626, 626AM, 643e)	9 available (605, 606, 612, 619, 622, 625, 626, 626AM, 643e)
Latches	Backset	Standard: 2 <sup>3</sup> / <sub>4</sub> " Optional: 2 <sup>3</sup> / <sub>8</sub> ", 3 <sup>3</sup> / <sub>4</sub> ", 7 <sup>3</sup> / <sub>4</sub> "	Standard: 2 <sup>3</sup> / <sub>4</sub> " Optional: 2 <sup>3</sup> / <sub>8</sub> "
	Faceplate	Standard : 1 <sup>1</sup> / <sub>8</sub> " x 2 <sup>1</sup> / <sub>4</sub> " Optional: 1" x 2 <sup>1</sup> / <sub>4</sub> " for 2 <sup>3</sup> / <sub>8</sub> " backset doors	Standard: 1 <sup>1</sup> / <sub>8</sub> " x 2 <sup>1</sup> / <sub>4</sub> "
	Bolt	Standard : <sup>1</sup> / <sub>2</sub> " throw via Oil Impregnated Stainless Steel Optional : <sup>3</sup> / <sub>4</sub> " throw anti-friction bolt available for pairs of doors	
	Strike	Standard: ANSI Curved Lip: 1 <sup>1</sup> / <sub>4</sub> " x 4 <sup>7</sup> / <sub>8</sub> " x 1 <sup>3</sup> / <sub>16</sub> " Optional: T Strike, ANSI strikes with alternative lip lengths, dust box options	
Keying	Formats	Standard: 3 Schlage (KIL or FSIC or SFIC) Optional: 10 Non-Schlage including cylinders from Best, Corbin Russwin, Medeco, Sargent and Yale	
	Access security	Standard : 6-Pin Patented Everest 29 Optional: Open, Restricted, Primus, master keying, construction keying	
Wired electrified	Input voltage	Autodetecting 12-24V DC, + 10%	—
	Operating mode	Fail Safe or Fail Secure via switch on chassis	—
	Current draw	0.23 amps maximum; 0.01 amps holding	—
	Request to Exit	Modular - 3A @ 125VAC / 2A @ 30VDC	—
Wireless electronic	Input voltage	—	4 AA batteries
	Operating mode	—	Selectable - secured, as-is, or passage
	Communication	—	2.4 GHz Wi-Fi (IEEE 802.11b/g) Bluetooth low energy (version 4.0)
	Request to Exit	—	Integrated into chassis
	Door position sensor	—	Integrated magnetometer with strike and magnet assembly. Includes magnetic tamper alert.
	Tamper sensor	—	Integrated interior cover tamper
Warranty	Mechanical	10 years mechanical, 1 year wired electrified	1 year wireless electronic
Certifications	ANSI/BHMA	All ND Series comply with A156.2 performance requirements for grade 1 cylindrical locks. Wired electrified complies with A156.25 (indoor), wireless electronic complies with A156.25 (indoor/outdoor) requirements for electrified locking devices	
	ICC	Complies with ICC A117.1 Accessible and Usable Buildings and Facilities	
	UL/cUL	All locks 3 hour A label single fire door 4'0" x 10'0"; pair doors 3 hour fire door 8'0" x 8'0" with <sup>3</sup> / <sub>4</sub> " latch option; pair doors 90 minute fire 8'0" x 10'0" with <sup>3</sup> / <sub>4</sub> " latch option	
	CA Fire Code	All levers with a return to door of <sup>1</sup> / <sub>2</sub> " (64 mm) or less comply (Rhodes, Sparta, Tubular, Omega, Longitude and Boardwalk)	
	FL Building Code	Complies with Florida Building Code (ASTM E330, E1886, E1996) and Miami Dade (TAS 201, 202, 203) requirements for hurricanes	
	Federal	Meets FF-H-106C Series 161	—
	Other	—	UL294, CSA C22.2 No. 205-M1983, FCC Part 15, IC RSS-210, RoHS

## Architectural architectural specifications

### General specifications - applies to mechanical, wired electrified & NDE wireless electronic

1. Provide Schlage ND Series cylindrical locks conforming to the following standards and requirements:
    - a. ANSI/BHMA A156.2 Series 4000, Grade 1
    - b. UL10C for 4'0" x 10'0" 3-hour fire door
    - c. Florida Building Code (ASTM E330, E1886, E1996) and Miami Dade (TAS 201, 202, 203) requirements for hurricanes
  2. Provide cylindrical locks **exceeding** the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security and durability in the categories below:
    - a. **Abusive locked lever torque** – minimum 3,100 inch-pounds without gaining access
    - b. **Offset lever pull** – minimum 1,600 foot pounds without gaining access
    - c. **Vertical lever impact** – minimum 100 impacts without gaining access
    - d. **Cycle life** – minimum 16 million cycles
      - 1 With no visible lever sag
      - 2 Without the use of performance aids (i.e. – set screws, spacers, etc.)
  3. Provide locksets with **solid cast levers** and **wrought roses** on both sides. (**ND mechanical, ND wired electrified**)
    - a. Lever design: Rhodes, Athens, Sparta, Tubular, Omega, Latitude, Longitude, Boardwalk or Boardwalk
    - b. Rose design: Rhodes (used with Rhodes, Athens, Sparta, Tubular, Latitude, Longitude, Boardwalk or Boardwalk levers) or Omega (used with Omega lever)
    - c. **OPTION (where required by Authority Having Jurisdiction)** - Provide tactile warning on levers on exterior (secure side) of doors serving rooms or areas considered to be hazardous.
    - d. **OPTION** - Provide break away Rhodes levers for an additional level of security
  4. Provide locksets with **solid cast levers** and **cast escutcheons** on both sides (**NDE wireless electrified**)
    - a. Lever design: Rhodes, Athens, Sparta, Latitude, Longitude, Boardwalk or Boardwalk
    - b. **OPTION (where required by Authority Having Jurisdiction)** - Provide tactile warning on levers on exterior (secure side) of doors serving rooms or areas considered to be hazardous.
    - c. **OPTION** - Provide break away Rhodes levers for an additional level of security
  5. Provide locksets with **solid steel anti-rotation** through bolts and posts to control excessive lever rotation
  6. Provide **independently operating levers** with two external return spring cassettes mounted under roses to prevent lever sag.
  7. **OPTION/Standard NDE wireless electrified** – Provide Vandgard/Free-Wheeling levers with vandal resistant technology for use at heavy traffic or abusive applications.
  8. **OPTION** - Provide cylindrical locks with an inside indicator feature on a 626 finish for the Rhodes and Omega roses that provides clear direction for users to safely and quickly secure the room
    - a. **ND75 and ND95 – Standard**
    - b. **ND60 and ND93 – OPTION**
  9. Provide locks with **standard latches** featuring a 2 3/4" (70 mm) backset and a 1/2" latch throw capable of UL listing of 3 hours on a 4.0 x 10.0 opening. Provide proper latch throw for UL listing at pairs.
  10. Provide standard **ASA strikes** unless extended lip strikes are required to protect trim.
  11. **OPTION ND mechanical** – Provide reconfigurable lockset chassis that allows lock function to be changed to over twenty other common functions by swapping easily accessible parts
- Add for ND wired electrified**
12. Provide wired electrified options as scheduled in the hardware sets.
    - a. 12 through 24V DC operating capability, autodetecting
    - b. Selectable EL (Fail Safe)/EU (Fail Secure) operating mode via switch on chassis
    - c. 0.230A (230mA) maximum current draw
    - d. 0.010A (10mA) holding current
    - e. Modular / "plug in" Request to Exit switch
- Add for NDE wireless electronic**
12. Provide lockset with additional standard compliance:
    - a. Listed, UL 294 - standard of Safety for Access Control System Units
    - b. Compliant with ANSI/BHMA A156.25 Grade 1 Operation and Security
    - c. Certified to FCC Part 15
  13. Provide credential reader module in the following configuration, as indicated in the door hardware sets. Multi-technology contactless reader shall be NFC-Compatible, including NFC Peer to Peer compatibility, and read access control data from both 125 kHz and 13.56MHz contactless smart cards.
  14. Provide lockset with the following switches/monitors standard:
    - a. Door Position Sensor (DPS)
    - b. Interior cover tamper guard
    - c. Request to Exit (RX) switch
  15. Provide locksets with the following features
    - a. Ability to communicate unit's communication status
    - b. Visual tri-colored LED indicator that indicates activation, operational systems status, system error conditions and low power conditions
    - c. Audible feedback that can be enabled or disabled
    - d. Tamper resistant torx screw on inside escutcheon
  16. Provide lockset with open architecture characteristics capable of handling new and existing access control software and credential reading technology
  17. Provide lockset powered by four AA batteries
    - a. Provide locksets able to communicate battery status and battery voltage level by means of application on mobile device at the door or remotely via integrated software
- 1 Beyond grade 1 performance for ND locks with Schlage cylinders only (standard, FSIC and SFIC). Performance with non-Schlage cylinders will exceed BHMA Grade 1 requirements but may be less than the performance of products with Schlage cylinders.

## About Allegion

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

For more, visit [www.allegion.com](http://www.allegion.com)

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



# B600/700/800 Series

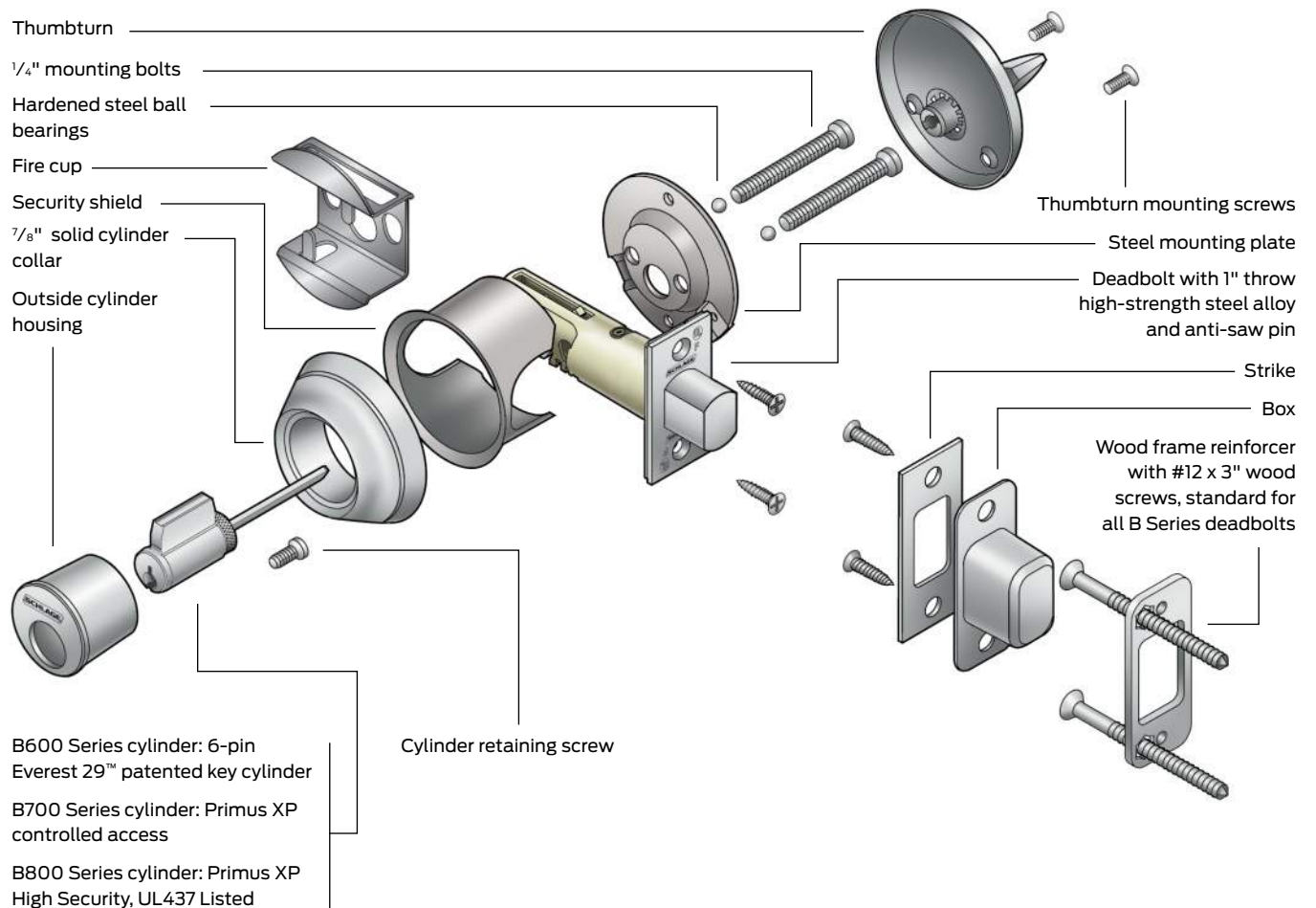
The B600/700/800 Series are Schlage's highest grade deadbolt locks. Choose the 600 for Grade 1 security in high-traffic commercial applications. Choose the 700 or 800 and get standard a Primus XP controlled access cylinder (700) or Primus® XP high security cylinder with UL 437 rating (800). A variety of functions and finishes makes the B600/700/800 Series a versatile choice for added security no matter where you use it.

Pictured here: B600 (Grade 1) deadbolt with D Series Orbit knob shown in 626 satin chrome



# The toughest deadbolts in the business

- 1" (25 mm) throw, high-strength steel alloy deadbolt with hardened steel roller resists sawing and kick-in attacks
- Precision-built solid brass 6-pin cylinders with phosphor bronze springs and nickel silver pins ensure long life and smooth operation
- Tough nickel silver keys for smooth, long-lasting operation
- Exclusive concealed wood frame reinforcer protects wood jamb against kick-in attacks
- Free-spinning solid cylinder collar resists wrenching and prying
- Large inside thumbturn makes it easy to throw and retract deadbolt
- Metal shield protects bolt from ice-pick attack through the door
- Hardened steel ball-bearings protect mounting bolts from drill attack



# Deadbolt designs

## B600 Series

Schlage's toughest heavy duty Grade 1 commercial deadbolt.

Furnished with conventional cylinder standard.

Also available with full size interchangeable core cylinder or small format interchangeable core (SFIC) cylinder.

Requires 2 1/8" (54mm) prep. UL10B listing standard for auxiliary lock on A label fire doors.



## B700 Series

Same lock as B600 Series but furnished with Primus XP controlled access cylinder for patented key control, geographical exclusivity and resistance to picking and impressioning. Also available with Primus XP full size interchangeable core cylinder.













## B800 Series

Same lock as B700 Series but Primus XP high security cylinder is UL437 listed to resist drilling and other forms of physical attack. Not available in interchangeable core.

All designs shown in 626 satin chrome



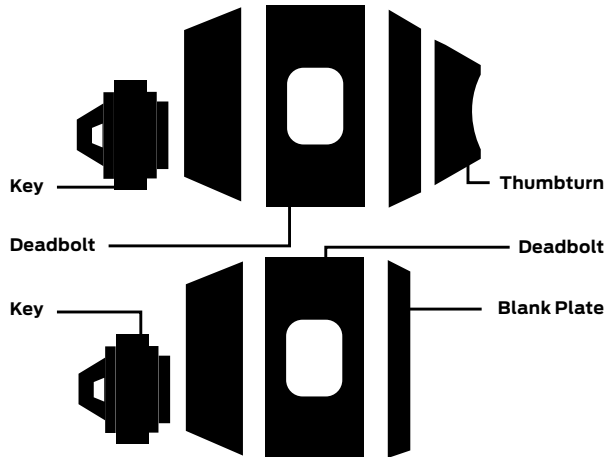
## Deadbolt finishes





										
	<b>605</b> Bright brass	<b>606</b> Satin brass	<b>609</b> Antique brass	<b>612</b> Satin bronze	<b>613</b> Oil rubbed bronze	<b>619</b> Satin nickel	<b>625</b> Bright chromium plated	<b>626</b> Satin chromium plated	<b>626AM</b> Antimicrobial coating	<b>643e</b> Aged bronze
B600/700/800										
B600	•	•	•	•	•	•	•	•	•	•
B700	•	•	•	•	•	•	•	•	•	•
B800	•	•	•	•	•	•	•	•	•	•

e = an equivalent finish to the BHMA standard.

# Deadbolt functions

ANSI A156.5 bored deadbolt locks grade 1



-  Standard cylinder.
-  FSIC - full size interchangeable core option.
-  SFIC - small format interchangeable core option.
-  Complies with ADA accessibility guidelines.

## \*Caution:

Double cylinder locks on any door are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

## ADA compliant:

Schlage Lock Company offers a wide selection of locks designed to meet the Americans with Disabilities Act.

Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

## B600 Series

Schlage ANSI  
**B660P E0151**

### Single cylinder deadbolt

- Deadbolt thrown or retracted by key outside or thumbturn inside.

Outside Inside



Schlage ANSI  
**B661P E0161**

### One-way deadbolt

- Deadbolt thrown or retracted by key outside.
- Blank plate with exposed screws inside.

Outside Inside



## B700 Series

Schlage ANSI  
**B760P E0151**

### Single cylinder deadbolt

- Deadbolt thrown or retracted by key outside or thumbturn inside.

Outside Inside



Schlage ANSI  
**B761P E0161**

### One-way deadbolt

- Deadbolt thrown or retracted by key outside.
- Blank plate with exposed screws inside.

Outside Inside



## B800 Series

Schlage ANSI  
**B860P E0151**

### Single cylinder deadbolt

- Deadbolt thrown or retracted by key outside or thumbturn inside.

Outside Inside
































Schlage ANSI  
**B861P E0161**

### One-way deadbolt

- Deadbolt thrown or retracted by key outside.
- Blank plate with exposed screws inside.

Outside Inside



<p>Schlage      ANSI <b>B662P*</b>      <b>E0141</b></p> <p><b>Double cylinder deadbolt</b></p> <ul style="list-style-type: none"> <li>• Deadbolt thrown or retracted by key on either side.</li> </ul> <p>Outside      Inside</p>    	<p>Schlage      ANSI <b>B663P</b>      <b>E0171</b></p> <p><b>Classroom deadbolt</b></p> <ul style="list-style-type: none"> <li>• Deadbolt thrown only by key outside.</li> <li>• Deadbolt retracted by key outside or thumbturn inside.</li> </ul> <p>Outside      Inside</p>     	<p>Schlage      ANSI <b>B664P</b>      <b>E0101</b></p> <p><b>Cylinder only deadbolt</b></p> <ul style="list-style-type: none"> <li>• Deadbolt thrown or retracted by key one side.</li> <li>• No trim on inside.</li> </ul> <p>Outside      Inside</p>  	<p>Schlage      ANSI <b>B680</b>      <b>E0191</b></p> <p><b>Door bolt</b></p> <ul style="list-style-type: none"> <li>• Deadbolt thrown or retracted by thumbturn inside.</li> <li>• No outside trim.</li> </ul> <p>Outside      Inside</p>  
<p>Schlage      ANSI <b>B762P*</b>      <b>E0141</b></p> <p><b>Double cylinder deadbolt</b></p> <ul style="list-style-type: none"> <li>• Deadbolt thrown or retracted by key on either side.</li> </ul> <p>Outside      Inside</p>   	<p>Schlage      ANSI <b>B763P</b>      <b>E0171</b></p> <p><b>Classroom deadbolt</b></p> <ul style="list-style-type: none"> <li>• Deadbolt thrown only by key outside.</li> <li>• Deadbolt retracted by key outside or thumbturn inside.</li> </ul> <p>Outside      Inside</p>    	<p>Schlage      ANSI <b>B764P</b>      <b>E0101</b></p> <p><b>Cylinder only deadbolt</b></p> <ul style="list-style-type: none"> <li>• Deadbolt thrown or retracted by key one side.</li> <li>• No trim on inside.</li> </ul> <p>Outside      Inside</p>  	
<p>Schlage      ANSI <b>B862P*</b>      <b>E0141</b></p> <p><b>Double cylinder deadbolt</b></p> <ul style="list-style-type: none"> <li>• Deadbolt thrown or retracted by key on either side.</li> </ul> <p>Outside      Inside</p>  	<p>Schlage      ANSI <b>B863P</b>      <b>E0171</b></p> <p><b>Classroom deadbolt</b></p> <ul style="list-style-type: none"> <li>• Deadbolt thrown only by key outside.</li> <li>• Deadbolt retracted by key outside or thumbturn inside.</li> </ul> <p>Outside      Inside</p>   	<p>Schlage      ANSI <b>B864P</b>      <b>E0101</b></p> <p><b>Cylinder only deadbolt</b></p> <ul style="list-style-type: none"> <li>• Deadbolt thrown or retracted by key one side.</li> <li>• No trim on inside.</li> </ul> <p>Outside      Inside</p>  	



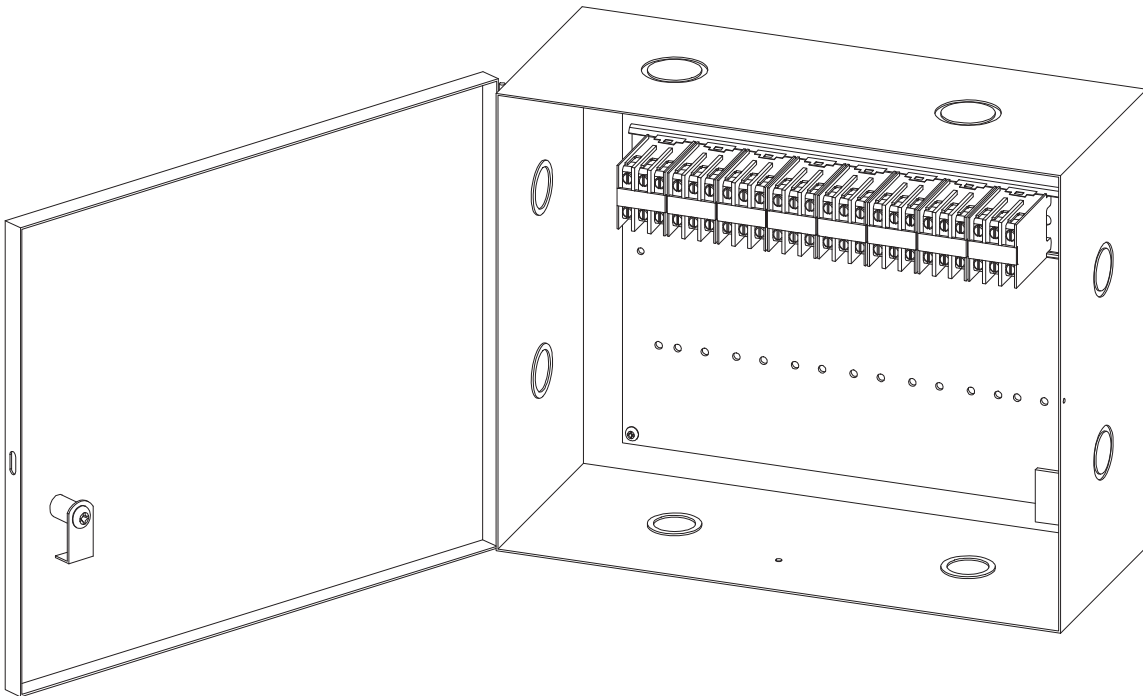
941084-00

# JB7

# VON DUPRIN®

Junction Box and Relays

Installation Instructions



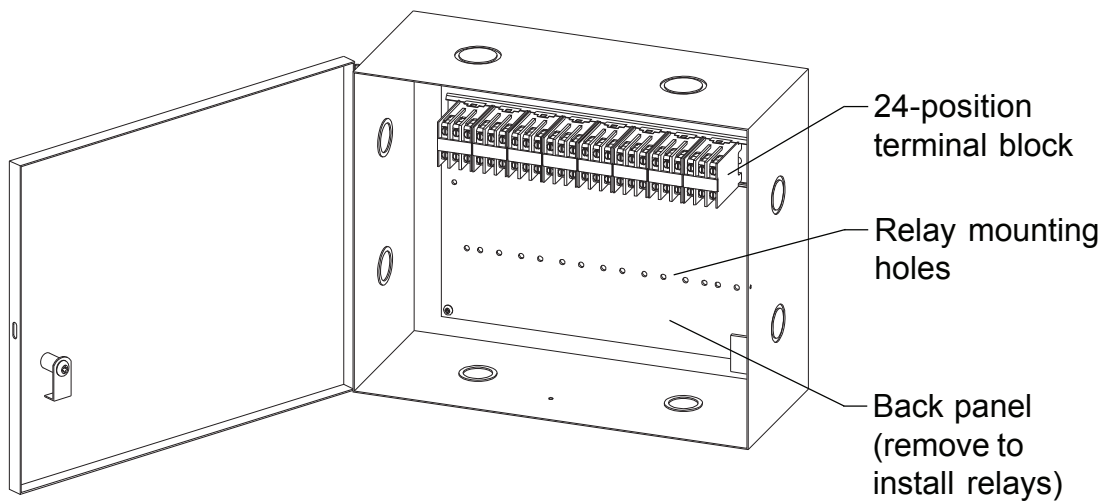
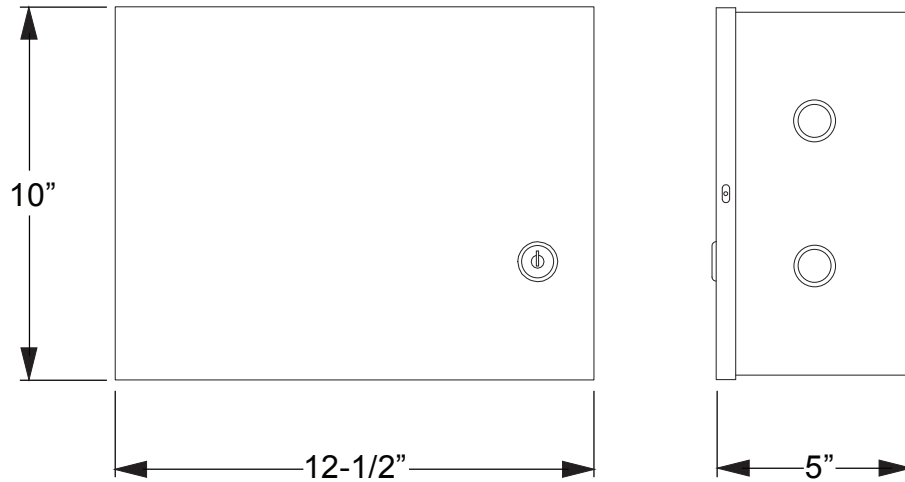
## Products covered by these instructions:

<b>JB7</b>	Junction Box (only)
<b>JB7-R1</b>	Junction Box with SPDT Relay
<b>JB7-R2</b>	Junction Box with DPDT Relay
<b>JB7-R3</b>	Junction Box with DPDT Delay on Make Relay
<b>JB7-R4</b>	Junction Box with DPDT Delay on Break Relay
<b>R5</b>	SPDT Relay (only)
<b>R6</b>	DPDT Relay (only)
<b>R7</b>	DPDT Delay on Make Relay (only)
<b>R8</b>	DPDT Delay on Break Relay (only)

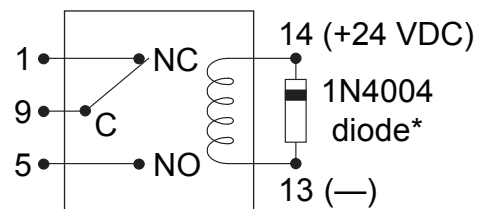
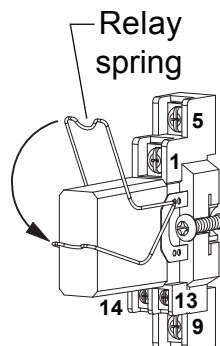
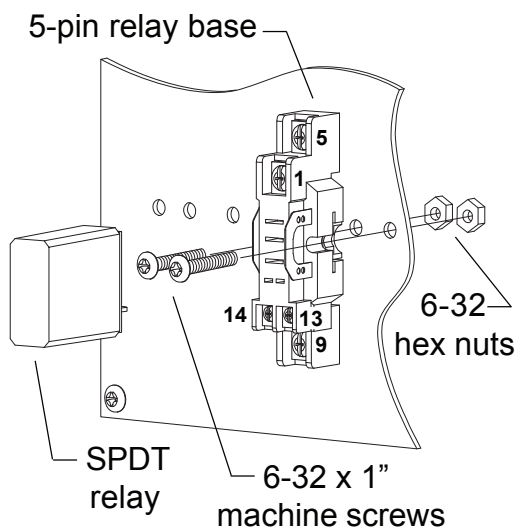
## Index:

• JB7 Junction Box .....	2
• SPDT Relay .....	2
• DPDT Relay .....	3
• DPDT Delay on Make Relay .....	3
• DPDT Delay on Break Relay .....	4

## Jb7 Junction Box



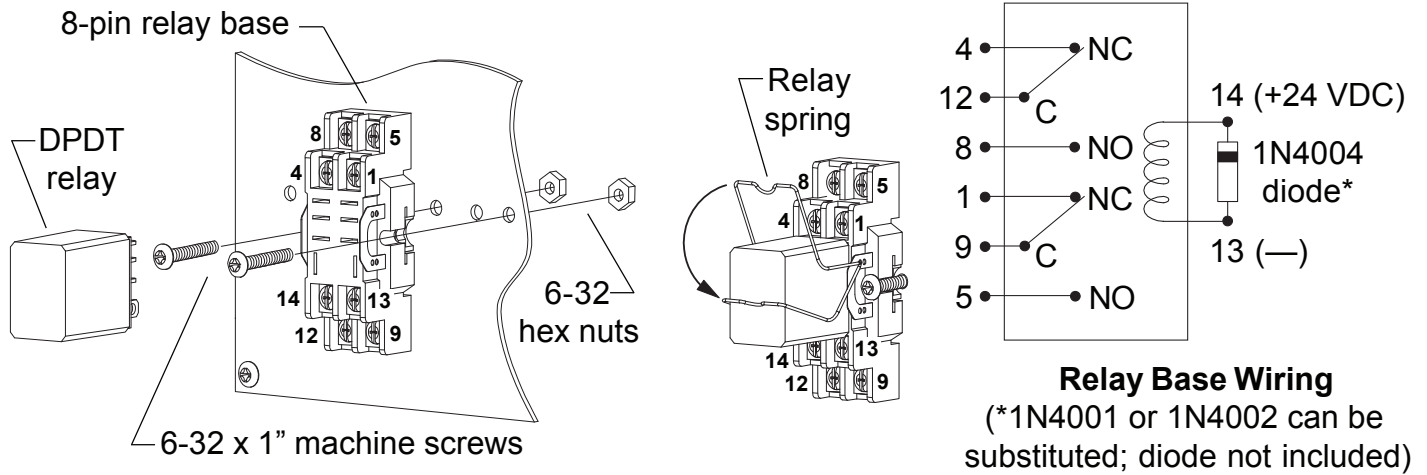
## SPDT 24 VDC RELAY (JB7-R1 AND R5)



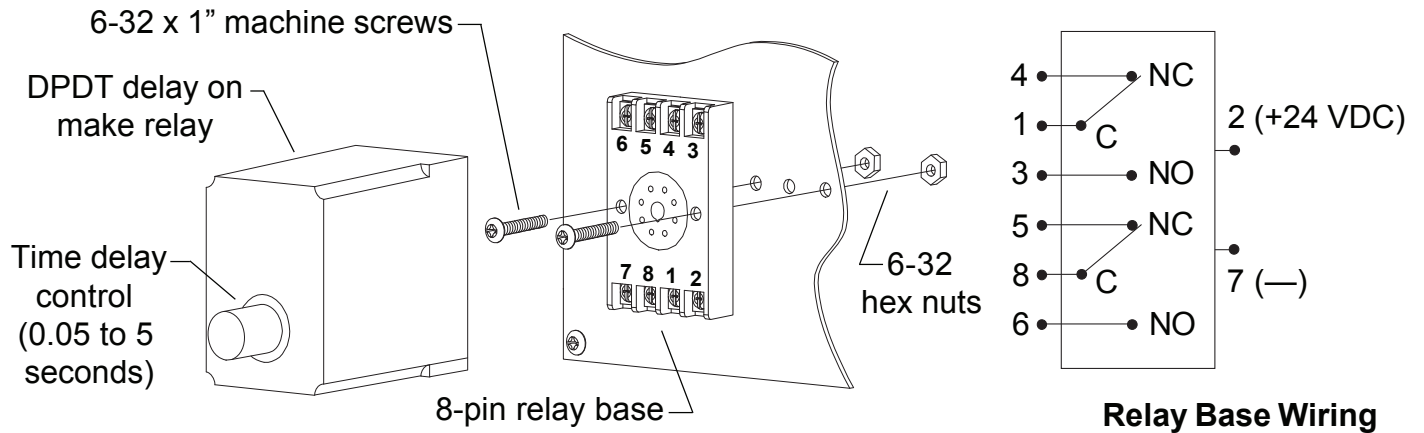
**Relay Base Wiring**  
(\*1N4001 or 1N4002 can be substituted; diode not included)



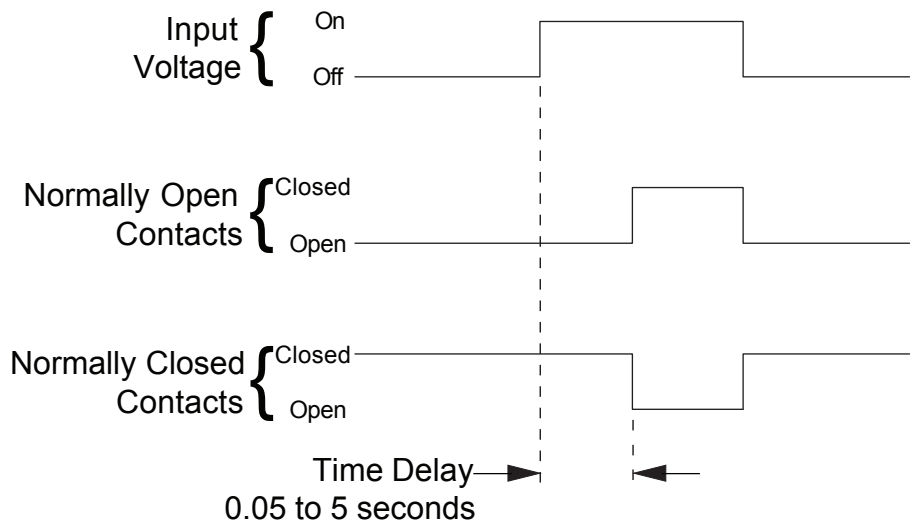
## DPDT 24 VDC RELAY (JB7-R2 AND R6)



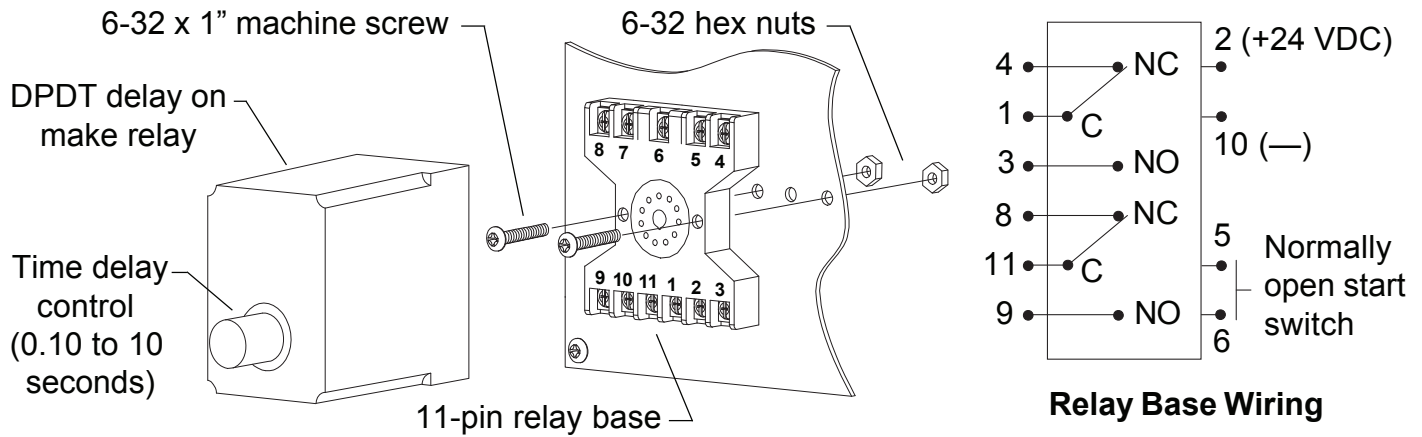
## DPDT 24 VDC DELAY ON MAKE RELAY (JB7-R3 AND R7)



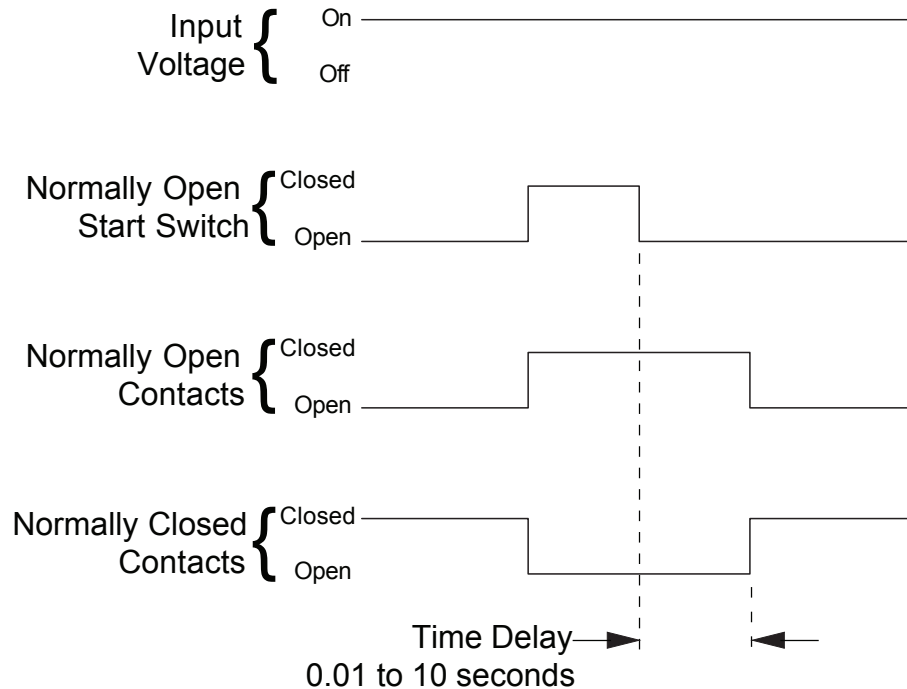
**Delay on Make Operation:** When power is applied to the input terminals (2 and 7), the time delay starts. At the end of the preset time delay, the output contacts transfer. Removing input power resets the relay.



# DPDT 24 VDC DELAY ON BREAK RELAY (JB7-R4 AND R8)



**Delay on Break Operation:** Power is applied to the input terminals (2 and 10) at all times. When the normally open start switch is closed, the output contacts transfer and remain in this position as long as the start switch is kept closed. When the start switch is opened, the time delay starts. At the end of the preset time delay, the output contacts transfer back to their original position and the relay resets.



Customer Service

1-877-671-7011 www.allegion.com/us

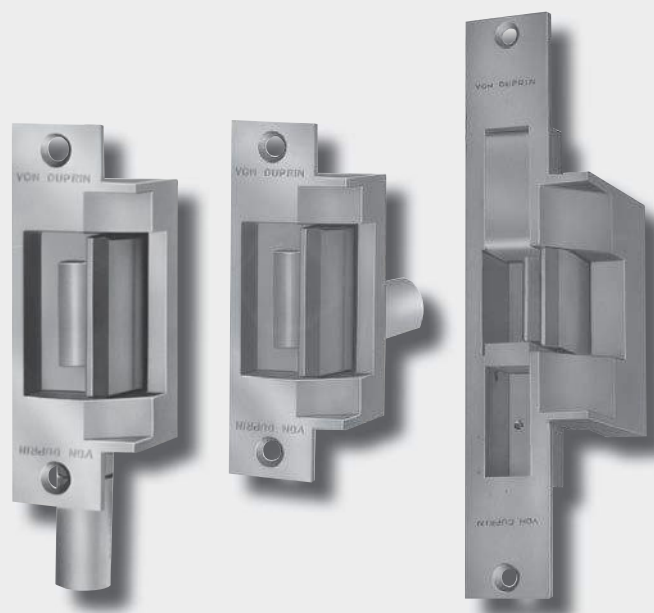


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**VON DUPRIN®**

## 6200 Series

Strikes for mortise or cylindrical devices



### Overview

Von Duprin electric strikes are known for their reliability, durability and security. The 6200 Series strikes are designed to withstand abuse. Their heavy-duty stainless steel construction is fully UL1034 and UL10C listed and meets ANSI/BHMA Grade 1.

6200 Series electric door strikes are designed for use with a variety of mortise or cylindrical locksets. Electrified strikes allow remote release of a locked door by activating a movable lip (keeper) using an entry/exit button or credential reader and can be a cost effective means for managing access. 6200 Series strikes come standard as 24 VDC in fail secure mode. 12 VDC and AC operation can be selected, as can fail safe mode and other options that enable you to configure these strikes to fit your exact needs.

Use 6200 Series electric strikes for retrofit applications or new construction. To assure the proper selection of an electric strike on new applications, lockset compatibility charts are shown on the next page. When using a lockset not listed or when retrofitting a strike to an existing application, please contact Von Duprin Technical Support for application assistance.

### Features and benefits

- 17 configurations available for cylindrical and mortise applications
- Heavy-duty stainless steel construction
- 24 VDC standard with 12, 16 and 28 VDC operation optional
- Two-piece plug connectors are furnished for ease of installation and removal during strike servicing
- Options include rectifier kit for VAC to VDC conversion, dual monitor switches, entry buzzer and Allegion Connect wire extension
- Six popular finishes available to suite with existing hardware
- Suitable for interior and exterior doors
- UL 10C 3-hour fire-rated (fail secure only)
- UL 1034 listed for burglary-resistant electric door strikes
- Meets ANSI/BHMA A156.31, Grade 1 for endurance and dynamic strength
- Meets ANSI/BHMA A156.31, Grade 1, 1500 lbs static strength
- Dynamic strength 70 ft-lbs
- Endurance 1,000,000 cycles

## 6200 Series power requirements

Models	Voltage	Current	Duty	Amps	Ohms
All	12V	DC	Continuous	0.60	21
All	16V	DC	Continuous	0.40	38
All	24V	DC	Continuous	0.33	83
All	28V	DC	Continuous	0.25	111

Continuous duty = Energized 1 minute or more

## Mortise lockset compatibility<sup>1,3</sup>

6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 and 6226 strikes

Manufacturer	Model number
Von Duprin	7500
Adams Rite	4510, 4710
Baldwin	6000
Best	24H, 30H
Corbin	9000
Falcon	M2300, M2500, M2600, M3300, M3500, M3600
Precision	Mortise
Russwin	Mortise
Sargent	7700, 8100, 9000
Schlage	L9000, K30, K40, K50, K60
Yale	7030, 7130, 8600, 8700

## Mortise lockset compatibility<sup>1,3</sup>

6210

Manufacturer	Model number
Von Duprin	7500
Best	30H (not 45H/47H)
Corbin/Russwin	ML2200, 5000, 9000, CR2200 (not 2000)
Falcon	M100, M200, M300, M400, M500, M600
Sargent	7700, 8100 (not 7800/8200)
Schlage	L9000
Yale	8700 (not 8800)

## Cylindrical lockset compatibility<sup>1,3</sup>

6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 and 6226 strikes

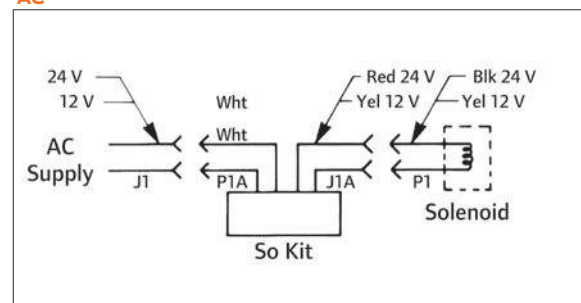
Manufacturer	Cylindrical latchbolt projection
Baldwin	$\frac{1}{2}$ " – $\frac{3}{4}$ " (13 mm – 19 mm)
Best	$\frac{3}{8}$ " – $\frac{3}{4}$ " (10 mm – 19 mm) <sup>2</sup>
Corbin	$\frac{1}{2}$ " – $\frac{3}{4}$ " (13 mm – 19 mm)
Falcon	$\frac{1}{2}$ " – $\frac{3}{4}$ " (13 mm – 19 mm)
Russwin	$\frac{1}{2}$ " – $\frac{3}{4}$ " (13 mm – 19 mm)
Sargent	$\frac{1}{2}$ " – $\frac{3}{4}$ " (13 mm – 19 mm)
Schlage	$\frac{3}{8}$ " – $\frac{3}{4}$ " (10 mm – 19 mm) <sup>2</sup>
Yale	$\frac{1}{2}$ " – $\frac{3}{4}$ " (13 mm – 19 mm)

Note: When using device not listed or when retrofitting a strike to an existing application, please contact Von Duprin Technical Support for application assistance.

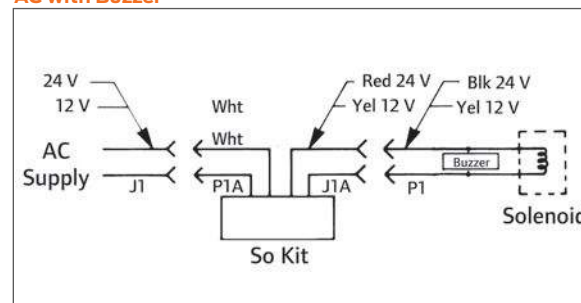
1. Von Duprin cannot guarantee compatibility, as other manufacturer's designs may change without notice.
2. Signalling may not function when using  $\frac{3}{8}$ " (10 mm) throw bolt. Deadlocking cannot be guaranteed with all locks.
3. When using a lockset not listed or when retrofitting a strike to an existing application, please contact Von Duprin Technical Support for assistance.

## Wiring

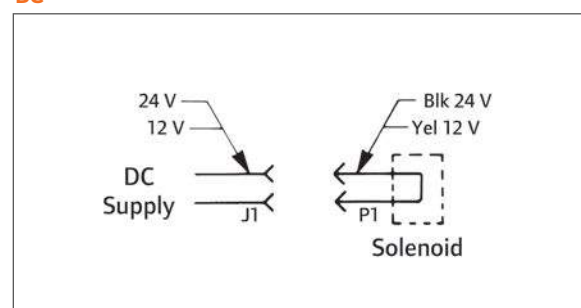
### AC



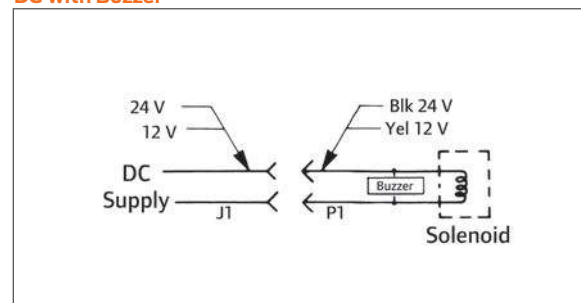
### AC with Buzzer



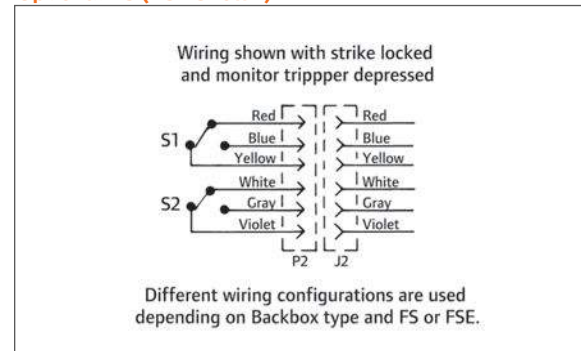
### DC



### DC with Buzzer

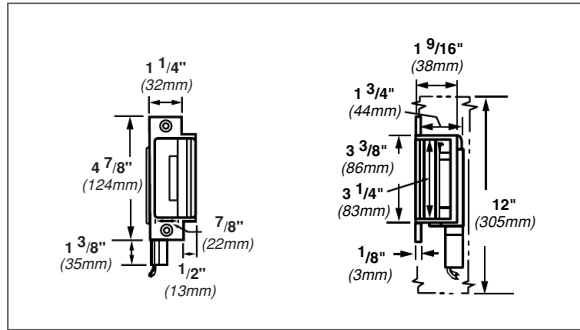


### Optional DS (FSE Shown)

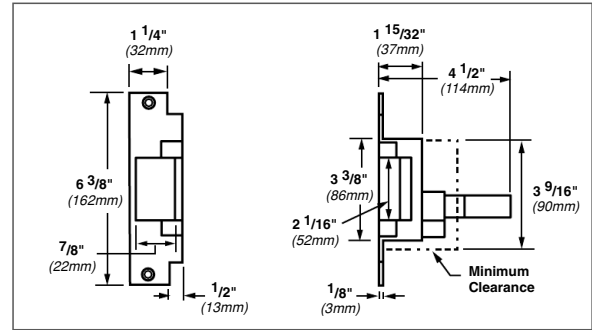


# Dimensions

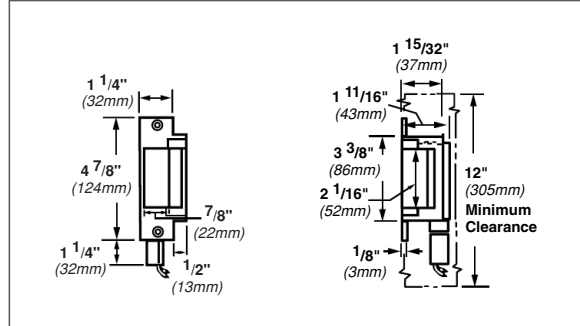
6210



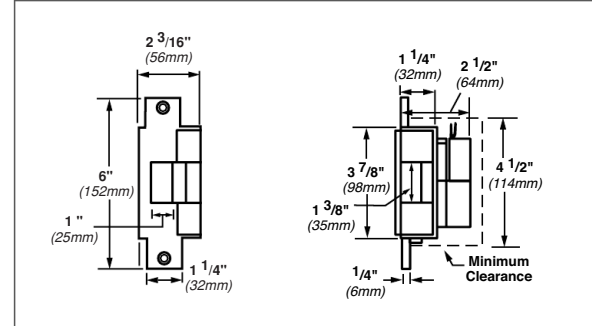
6212WF



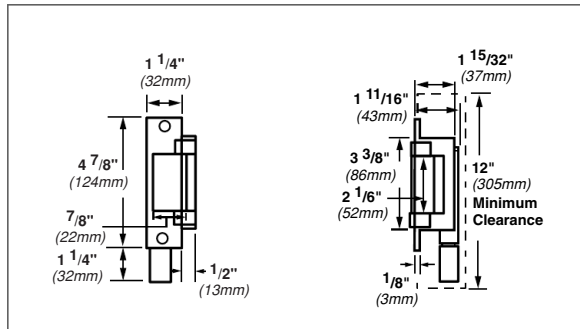
6211



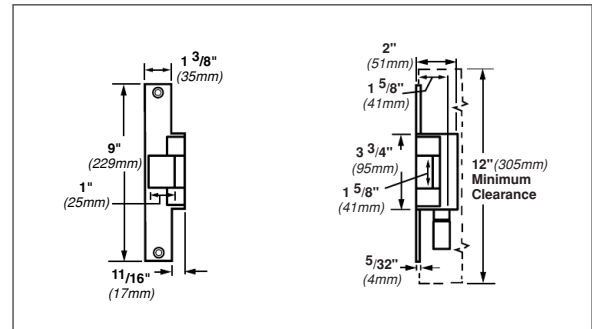
6213



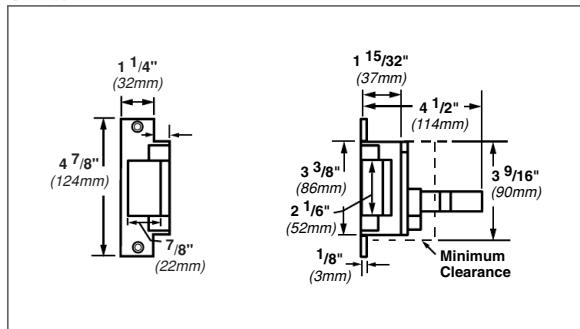
6211AL



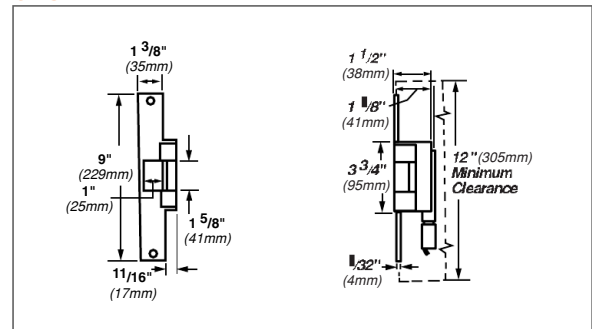
6214



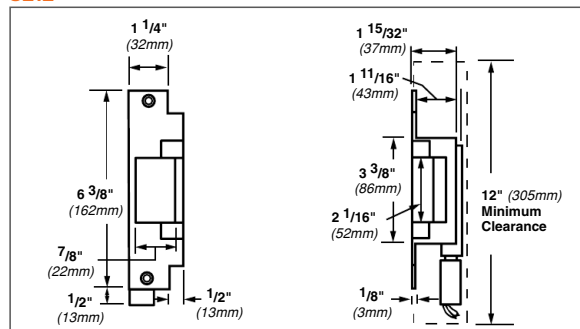
6211WF



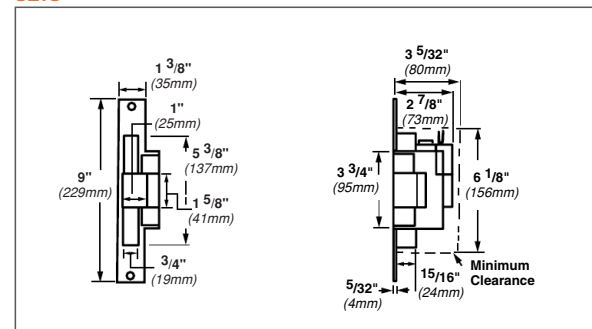
6215



6212



6216



## Ordering information

6210-FSE-DS-24-S024-US3-EB-CON

Model	Power failure mode	Dual switch*	Voltage	Rectifier kit*	Finish	Buzzer*	Allegion Connect*
1	2	3	4	5	6	7	8

\* Optional

Selections correspond with the numbers above

1	Model
Reference specification chart to make the proper model selection	
2	Power failure mode
FSE	Fail-secure. Requires power to be applied to unlock the strike lip. On loss of power, the strike lip is locked. <b>Fire-rated.</b>
FS	Fail-safe. Requires power to be applied to lock the strike lip. On loss of power, the strike lip is unlocked. <b>Non-fire-rated.</b>
3	Dual switch (optional)
DS	Monitors latch bolt and lock status. DS switches rated for 24 VDC at .050 - 2.0 amps.
DS-LC	Low current option for computer monitoring. Monitors latch bolt & lock status. DS-LS switches rated for 24 VDC at .050 amp or less.
4	Voltage (VDC)
24	Low voltage DC power (standard)
12	Low voltage DC power
16	Low voltage DC power
18	Low voltage DC power
If AC power is required, specify rectifier kit.	

5	Rectifier kit (optional)
S012	Converts 12 VAC voltage to 12 VDC to operate the solenoid
S024	Converts 24 VAC voltage to 24 VDC to operate the solenoid
6	Finish
US3	Plated polished brass on stainless steel
US4	Plated dull brass on stainless steel
US10	Plated dull bronze on stainless steel
US10B	Plated dark bronze, oil rubbed on stainless steel
BHMA 629/US32	Stainless steel, polished
BHMA 630/US32D	Stainless steel, satin
7	Buzzer (optional)
EB	Entry Buzzer
Only available if Fail-Secure (FSE) is specified.	
8	Allegion Connect
CON	Allegion Connect Connector
6 in. wire extension harness available	

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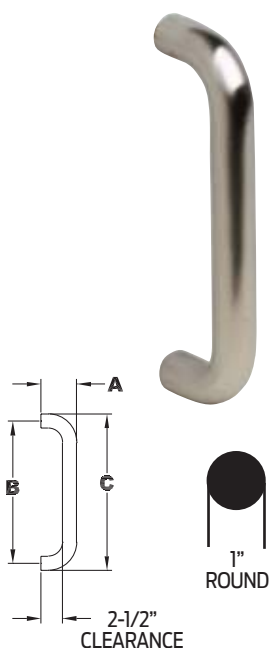
## About Allegion

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

aptiQ ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



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[www.allegion.com/us](http://www.allegion.com/us)



## 8103EZHD Door Pull - 1" Round Large 2-1/2" Clearance for the Accessibility Applications

Available mounting – standard, O, H-I-L, J see pages B15 and B17  
with Heavy Duty 3/8-16" mounting screws

### Available Sizes

8", 10", 12"

Product No.	Projection "A"	Clearance	Center to Center "B"	Overall Length "C"
8103EZ	3-1/2"	2-1/2"	8"	9"
<b>8103EZ</b>	<b>3-1/2"</b>	<b>2-1/2"</b>	<b>10"</b>	<b>11"</b>
8103EZ	3-1/2"	2-1/2"	12"	13"

### Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

### Finishes stainless steel

US Number	US32	US32D*
BHMA	629	630

### Finishes aluminum

US Number	US28
BHMA	628

\* Available with Antimicrobial Coating, use suffix AM

## 8105 Door Pull - 1" Flattened

Available mounting – standard or F see page B15  
– 1/4 - 20" mounting screws

### Available Sizes

6", 8", 10"

Product No.	Projection "A"	Center to Center "B"	Overall Length "C"
8105-6	2"	6"	6-1/2"
8105-8	2"	8"	8-1/2"
8105-0	2"	10"	10-1/2"

### Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

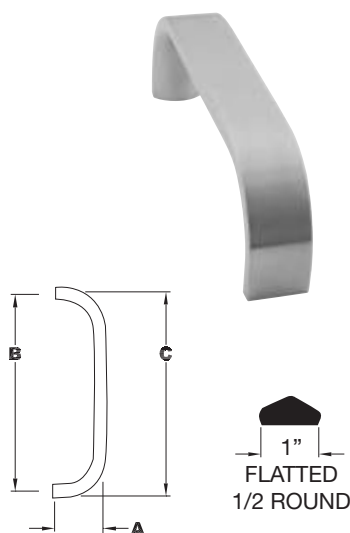
### Finishes stainless steel

US Number	US32D*
BHMA	630

### Finishes aluminum

US Number	US28
BHMA	628

\* Available with Antimicrobial Coating, use suffix AM



A

Hinges & Pivots

B6

Pulls & Plates

C

Flush Bolts & Coordinators

D

Latches, Catches & Bolts

E

Stops

F

Exterior Hardware

G

Miscellaneous Hardware



**8200**

**Push Plate**

**8300**

**Pull Plate, Prep for Pull (less pull)**

### Available Sizes

3" x 12"

3.5" x 15"

**4" x 16"**

6" x 16"

8" x 16"

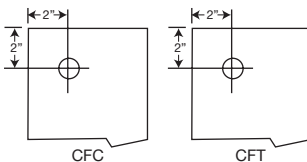
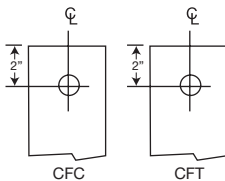
*Special sizes are available. Consult factory.*

### Plates Cut for Cylinder or Thumbturns

Plates are available with cutout for cylinder or thumbturn; standard cutout is 2" from top and centered on plates up to 4" wide. For plates wider than 4" cutout is located 2" from outer edge, specify LH or RH. When pull location interferes with standard cutout location a detail drawing should be furnished with the order.

Standard cutout is 1-1/4" for cylinder and 3/8" for thumbturn.

Specify CFC for cutout for cylinder or **CFT for cutout for thumbturn.**



### Finishes *brass*

US Number	US3	US4	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

### Finishes *stainless steel*

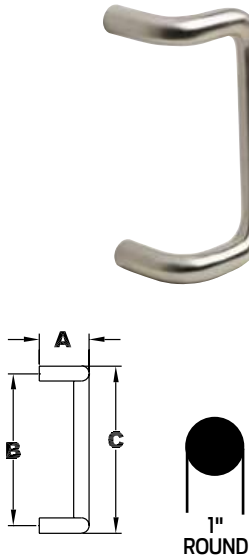
US Number	US32D*
BHMA	<b>630</b>

### Finishes *aluminum*

US Number	US28
BHMA	628

*\* Available with Antimicrobial Coating, use suffix AM*





## 8190EZHD 90° Offset Solid Door Pull

Available Sizes: 8", 10", 12", 18"

### Certifications

Meets ANSI A156.06

Complies with ADA and Barrier Free Applications

### Mounting

- Heavy Duty mounting hardware exceeds industry standards
- 3/8-16 mounting hardware
- Specify door thickness. Standard mounting hardware for door thickness of 1-1/2" to 1-3/4" unless otherwise specified. Optional package available for 2" and 2-1/4" thick doors.
- Comes Standard with thru-bolt screws and decorative washers.
- Optional Mounting Hardware available (see General information section for details) A, F, I, L, N, O, P, Q, X
- Mounting hardware for other door thicknesses are available as engineering special, consult customer service.

Product number	Projection "A"	Clearance	Center to center "B"	Overall length "C"	Offset "D"
8190EZHD-8	3-1/2"	2-1/2"	8"	9"	3-1/4"
8190EZHD-0	3-1/2"	2-1/2"	10"	11"	3-1/4"
8190EZHD-2	3-1/2"	2-1/2"	12"	13"	3-1/4"
8190EZHD-18	3-1/2"	2-1/2"	18"	19"	3-1/4"

### Finishes

- Available in Aluminum, Brass, and Stainless Steel substrates. See General information section for specific BHMA finish code, finish description, US finish code, and substrate information.
- 316 Series Stainless Steel standard, exceeding industry standards for corrosion resistance. Recommended for external applications
- Standard finishes available; 605, 606, 612, 613, 619, 625, 626, 626-AM, 628, 629-316, 630-316, 630-AM
- Custom finishes are available as engineering special, consult customer service.

### Additional Information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify Nsgl or Psgl (glass doors)
- Custom lengths are available as engineering special, consult customer service.

A  
Hinges & Pivots

B17  
Pulls & Plates

C  
Flush Bolts & Coordinators

D  
Latches, Catches & Bolts

E  
Stops

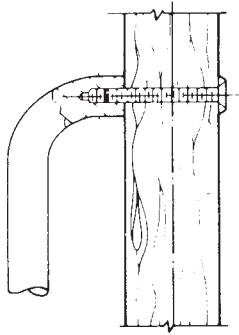
F  
Exterior Hardware

G  
Miscellaneous Hardware

## Mounting

- All mounting hardware is for standard 1-3/4" door.
- Consult Customer Service if other than standard.

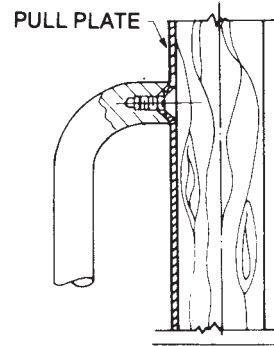
### Type Standard Mount



#### Standard Mounting

- (2) 3/8-16 x 2-1/4" brass, flat head machine screws; plate to match.
  - (2) 3/8-16 countersunk washers; plated to match
- Note: 8102HD and 8105 have (2) 5/16-18 x 2-1/2" machine screws  
-Options: (2) 5/16 countersunk washers

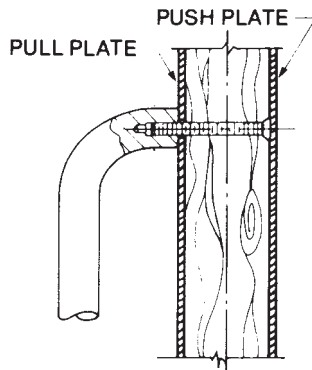
### Type G Mount



#### Concealed Pull Plate Mounting

- Available only for 8302, 8303, 8311 Pull Plates.
- (2) 3/8-16 x 5/8" steel flat head machine screws; zinc plated.
- Pull mounts directly onto plate.  
Plate is attached to door by 6 screws.
- Note: 8302 has (2) 5/16-19 x 5/8" steel flathead zinc plated screws

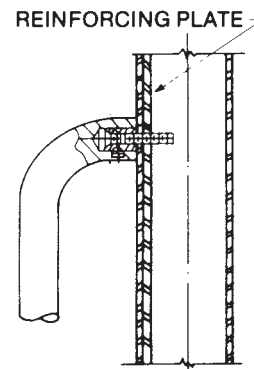
### Type F Mount



#### Wood Doors Concealed Pull Mounting With Push Plate

- (2) 2-1/4" steel flat head machine screws; zinc plated.
- Available only for 8102HD, 8103HD, 8105, 8111, 8302, 8303, 8305 and 8311. Plate on opposite side of door must be ordered separately.
- Note: 8102HD, 8302 will have 5/16-18  
8105, 8111, 8305, 8311 will have 1/4-20  
8103HD, 8303 will have 3/8-16"

### Type H-I-L Mount



#### Reinforced Hollow Metal Door Concealed Pull Mounting

- Available only for 8102, 8103, 810EZ or wood door pulls, 8302, 8303 pull plates and 9264, 9265, 9266 and 9267 long door pulls.
- (2) Steel screw sleeves; zinc plated.
  - (2) Steel countersunk trim head machine screw; zinc plated for reinforced metal door.
  - (2) Steel countersunk trim head steel metal screw; zinc plated for wood doors.
- Note: 8102HD and 8302 will have 5/16-18"  
8103HD, 8103EZHD, 8303 will have 3/8-16

# 90 Series Surface Overhead Door Holders/Stops



## 90 Series Heavy-Duty

Glynn-Johnson 90 series holders and stops are the most rugged models available for heavy-duty applications. The channel is surface-mounted to the door, most often with six bolts, and the jamb bracket is surface mounted to the jamb, requiring minimal door and frame preparation.

These versatile units can be used in conjunction with most surface-applied door closers. The provided templates allow for variable mounting positions, ranging from 85° to 110° Hold-Open/Stop angle. These templates are designed for installation in almost all types of doors, including doors with conventional butt-type hinges or specialty hinges.

### Four Models:

- 90H Series Hold-Open Model
- 90S Series Stop-Only Model
- 90F Series Friction Hold-Open Model
- 90SE Series Special Stop-Only Model

### Five Sizes:

- Simple
- Standardized
- Each model is available in five sizes

### Three Options:

- J—Angle Jamb Bracket
- SHIM—Blade Stop Shim Kits
- SOC—Pin-in-Socket Security Screw Package

### Unmatched Convenience:

- Non-Handed
- Improved Compatibility with Door Closers
- Single-Acting Doors
- Interior/Exterior Applications
- Durable
- Easy to Install
- Improved Corrosion Resistance
- Function Conversion Kits Available

### Materials and Finishes:

In 300 series Stainless Steel, Brass and Steel substrates, these models are available in the largest selection of finishes in the industry. Stainless Steel models offer the highest resistance to corrosion. Available in the following finishes:

Finish	Description
US3	Polished Brass
US4	Satin Brass
US10	Satin Bronze
US10B	Oil Rubbed Bronze
US32	Polished Stainless Steel
US32D	Satin Stainless Steel
SP4	Powder Coat Brass
SP10	Powder Coat Bronze
SP28	Powder Coat Aluminum
SP313	Powder Coat Dark Bronze
SPBLK	Powder Coat Black
652	Chrome-like Coating

## Models

Glynn-Johnson 90 series door holders and stops provide long-lasting protection for doors, frames and hardware. All models incorporate a heavy-duty channel/slide-arm design and offset jamb bracket. This unique design allows for simple field modification of functions, should user requirements change.

### 90H Series Hold-Open

(Suffix H) Hold-Open models provide a convenient method of holding the door open at a predetermined position for short or long periods of time, permitting an unobstructed traffic flow through the opening. The Hold-Open function can easily be turned on or off by simply rotating the serrated knob on the bottom of the channel. This knob engages the Hold-Open mechanism, allowing the door to be held open at a predetermined position ranging from 85° to 110°. When the knob is flipped over, it acts as a stop and shock absorber.

The tension on the Hold-Open mechanism can be adjusted using a phillips screwdriver to offset air currents or other exterior conditions. The Hold-Open tension adjustment is located on the top of the slider in the channel.

### 90S Series Stop-Only

(Suffix S) When the Hold-Open function is not a requirement, Stop-Only models provide a reliable method of door control. Stop-Only models provide the same shock-absorbing capability as Hold-Open models. The Stop-Only model may be used on fire doors.

### 90F Series Friction Hold-Open

(Suffix F) Friction Hold-Open models are ideal for patient room doors, wardrobe and closet doors or similar applications where multiple Hold-Open positions are desired. The friction tension can be adjusted through the top of the channel using an allen wrench. The friction tension adjustment is located on the top of the slider in the channel.

## 90SE Series Special Stop-Only

(Suffix SE) When Stop-Only models are used in conjunction with single-point, Hold-Only electronic door closers, the Stop-Only function may be ordered without the shock-absorbing mechanism. Used as an auxiliary stop, these models prolong the life of the closer. The stop location is adjusted using an allen wrench on the stop block located in the channel.

*Note: Caution should be taken when using this option in other applications, as the elimination of the shock-absorbing spring can put added stress on the door and frame.*

## Application Information

### UL Classification

The 90 series Stop-Only models are classified by Underwriters Laboratories (UL) as Miscellaneous Fire Door Accessories. This classification applies to use on either Hollow Metal Fire Doors or Wood Fire Doors. These units may be used on doors of any rating. As a reminder, the Miscellaneous Fire Door Accessories (GVUX) section is defined by UL as: "Miscellaneous fire door accessories are intended in the individual Listings. The accessories have been investigated to determine that when installed in accordance with the manufacturer's instructions, the accessories do not adversely affect the fire rating of the fire door and/or fire door frames."

### Dead-Stop Templating:

Dead-stop templating is recommended for applications where a wall or similar obstruction is placed at an opening angle of 110° or less (i.e., doors that open back-to-back). Dead-stop templating can be applied to Hold-Open, Stop-Only and Friction models. The Dead-Stop position is the point at which the shock-absorbing spring is fully compressed. Therefore, when Dead-Stop Templating is used, the initial degree of opening will be 5° to 7° less than the Dead-Stop opening.

*Example: If the holder is templated to a 100° Dead Stop, the door will hold open at an angle between 93° and 95° but no further than 100°*

*Note: Do not use dead-stop templating on the 90SE Series since there is no shock-absorbing spring.*

### Environmental Considerations:

Environmental factors should always be considered when specifying overhead holders and stops. Doors that are positioned on a building's exterior or subject to corrosive conditions should be equipped with a holder constructed primarily of stainless steel or brass materials. For interior applications, steel is acceptable, though brass substrates generally provide a more attractive architectural-grade finish.

### Function Conversion Kits

- FK90H—Converts a 90F or a 90S unit into a 90H unit. To order specify FK90H.
- FK90F—Converts a 90H or a 90S unit into a 90F unit. To order specify FK90F.
- FK90SE—Converts a 90H, 90F or a 90S unit into a 90SE unit. To order specify FK90SE—Finish.
- No kit is needed to convert a 90H or 90F unit into a 90S unit.

## Options

### Suffix J (Angle Jamb Bracket):

An angle jamb bracket is available for converting standard models to hinge-side or flush transom mounting. The angle jamb bracket affixes to the standard jamb bracket. If ordered with the unit add suffix J. If needed separately order 90J by finish needed.

### Suffix SOC (Pin-in-Socket Security Screws):

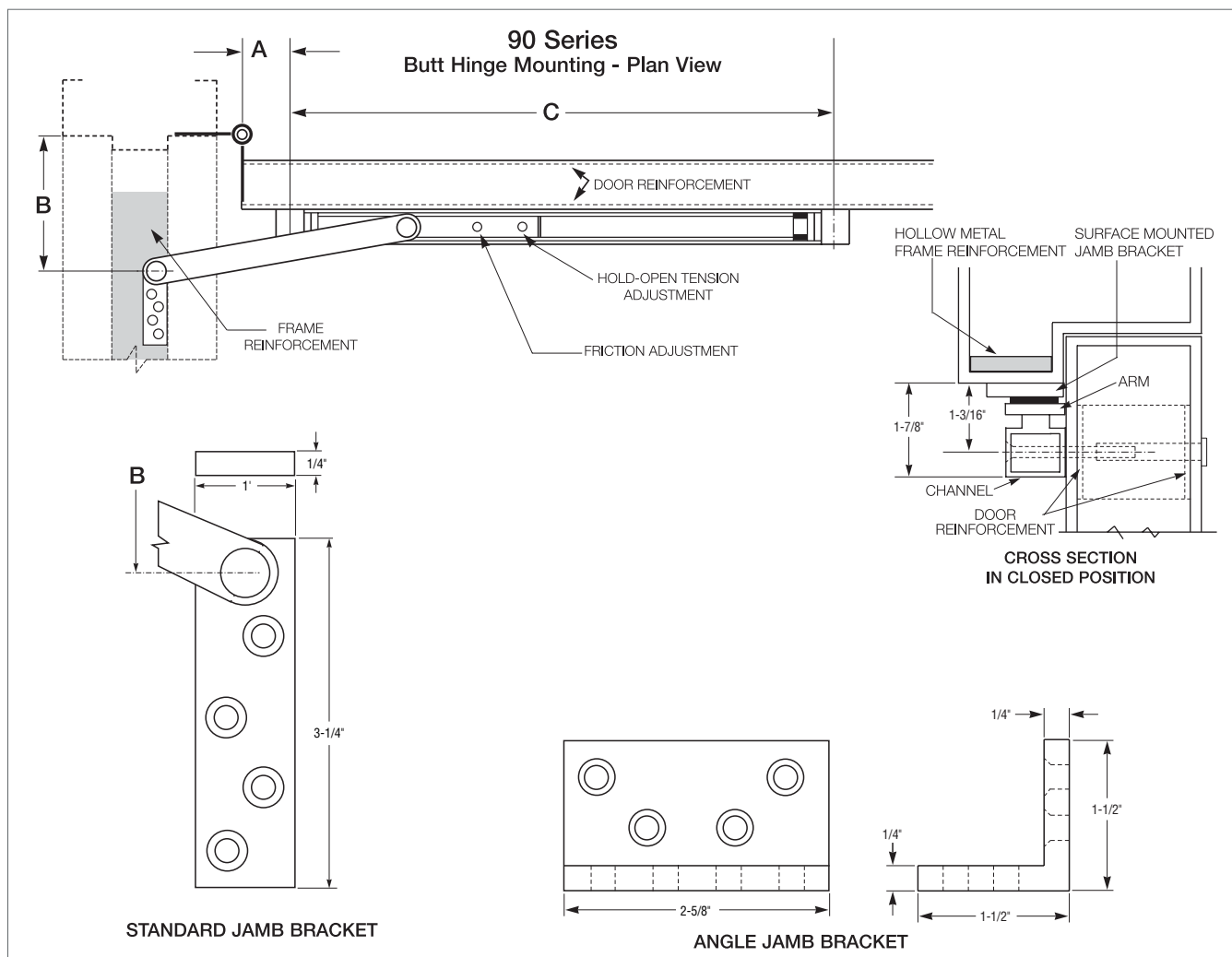
A screw package with pin-in-socket screws for mounting the door bracket and the jamb bracket is provided instead of the standard screw package.

### Suffix SHIM (Blade Stop Shims):

Shim kits are available in 3 sizes  
90 SHIM1 is a 1/4" Shim Kit  
90 SHIM2 is a 1/2" Shim Kit  
90 SHIM3 is a 3/4" Shim Kit

If ordered with overhead, add suffix SHIM (1, 2 or 3). If needed separately order 90 SHIM (1, 2 or 3)—Finish.

# 90 Series Surface Overhead Door Holders/Stops



90 Series Sizing Chart								
BUTTS/OFFSET PIVOTS					CENTER HUNG			
SIZE	DOOR OPENING	STOP ONLY	HOLD OPEN	FRICTION	DOOR OPENING	STOP ONLY	HOLD OPEN	FRICTION
1	----	----	----	----	----	----	----	----
2	23-1/16"-27"	902S	902H	902F	27-1/16"-33"	902S	902H	902F
3	27-1/16"-33"	903S	903H	903F	33-1/16"-39"	903S	903H	903F
4	33-1/16"-39"	904S	904H	904F	39-1/16"-45"	904S	904H	904F
5	39-1/16"-45"	905S	905H	905F	45-1/16"-51"	905S	905H	905F
6	45-1/16"-51"	906S	906H	906F	51-1/16"-59"	906S	906H	906F

Note: This chart illustrates the most common types of hinging and door opening sizes.  
For unusual door details, contact Glynn-Johnson for availability.

BHMA/ANSI, A156.8 & FED. Spec. Cross Reference		
G-J Model	BHMA*	FED. Spec.
902 - 906H	C02511	1161
902 - 906S	C02541	1161A
902 - 906F	C02531	—

\* First numeral (0) designates optional material.

To specify:

Brass material, change 0 to 1 (i.e. C12511)

Stainless Steel material, change 0 to 5 (i.e. C52511)

Steel material, change 0 to 8 (i.e. C82511)

The template information on this page is for reference only and is not intended to serve as an installation template.  
For complete dimensional information, refer to Glynn-Johnson template book.



## How to Order

	<b>90</b>	<b>4</b>	<b>H</b>	<b>-</b>	<b>US32D</b>	<b>-</b>	<b>J</b>
<b>Overhead Series:</b> 90							
<b>Size (Door Opening Using Butts or Offset Pivots):</b> 2 (23-1/16"-27") 3 (27-1/16"-33") 4 (33-1/16"-39") 5 (39-1/16"-45") 6 (45-1/16"-54")							
<b>Function:</b> H Hold-Open F Friction Hold-Open S Stop-Only SE Special Stop-Only							
<b>Finishes:</b> US3 Polished Brass US4 Satin Brass US10 Satin Bronze US10B Oil Rubbed Bronze US32 Polished Stainless Steel US32D Satin Stainless Steel SP4 Powder Coat Brass SP10 Powder Coat Bronze SP28 Powder Coat Aluminum SP313 Powder Coat Dark Bronze SPBLK Powder Coat Black 652 Chrome-like Coating							
<b>Options:</b> J Angle Jamb Bracket SHIM Blade Stop Shims— SHIM1-1/4" Kit SHIM2-1/2" Kit SHIM3-3/4" Kit SOC Pin-in-Socket Security Screws							

# 100 Series Concealed Overhead Door Holders/Stops



## 100 Series Heavy-Duty

Glynn-Johnson offers a complete line of overhead door holders and stops, accommodating virtually all openings with solutions for even the most complex door control problems. These concealed holders and stops provide the most attractive and reliable heavy-duty door control available.

Glynn-Johnson 100 series holders and stops provide the most reliable and versatile concealed overhead door control. They are designed for installation on virtually all types of doors mounted on conventional type butt hinges, pivots, continuous hinges, swing clear hinges and numerous other specialty hinges. When used in conjunction with many surface-applied door closers, 100 series holders and stops provide the most effective control for entrance doors and vestibule doors of all types, as well as heavy or often used interior doors. Templates provided allow for variable mounting positions, ranging from 85° - 110° of opening.

### Five Models:

- 100H Series Hold-Open Model
- 100HP Series Internal Hold-Open Model
- 100F Series Friction Hold-Open Model
- 100S Series Stop-Only Model
- 100SE Series Special Stop-Only Model

### Six Sizes:

- Each model comes in six sizes.
- Simple
- Standardized

### Three Options:

- ADJ—Adjustable Jamb Bracket
- CJ—Jamb Bracket for use with LCN5030 Closer
- SOC—Pin-in-Socket Security Screw Package

### Unmatched Convenience:

- Non-handed
- Improved Compatibility with Door Closers
- Single/Double-Acting Doors
- Interior/Exterior Applications
- Reduced Door Prep
- Durable
- Improved Corrosion Resistance
- Function Conversion Kits are Available.

### Materials and Finishes:

In Heavy Gauge Brass or 300 Series Stainless Steel, these models offer the broadest range of finishes in the industry, complementing any design and offering the highest resistance to corrosion. Available in the following finishes:

Finishes	Description
US3	Polished Brass
US4	Satin Brass
US10	Satin Bronze
US10B	Oil Rubbed Bronze
US32	Polished Stainless Steel
US32D	Satin Stainless Steel
SP4	Powder Coat Brass
SP10	Powder Coat Bronze
SP28	Powder Coat Aluminum
SP313	Powder Coat Dark Bronze
SPBLK	Powder Coat Black

## Models

These models provide a wide range of optional features, and are ideal for use on entrance and vestibule doors, large doors, doors opened frequently, or doors subject to abuse. These models are also furnished with an offset-style jamb bracket.

Designed for heavy-duty applications, 100 series models will provide long-lasting protection to doors, frames, hinges, related hardware and surrounding walls or obstructions.

### 100H Series Hold-Open

(Suffix H) The Hold-Open function should be used where it is desired to hold a door open at a predetermined position for short or long periods of time, permitting an unobstructed traffic flow through the opening.

These models are both selective and adjustable, featuring the most reliable Hold-Open mechanism available. They feature a control knob which protrudes from the face of the door and turns the Hold-Open function on or off. Set in the inactive position, the unit acts as a stop and shock absorber. The tension on the Hold-Open mechanism can be adjusted using an allen wrench to offset air currents or other exterior conditions. The Hold-Open tension adjustment is located in the bottom of the track in the top of the door.

### 100HP Series Internal Hold-Open

These models provide a Hold-Open unit with the Hold-Open mechanism built into the channel, thus reducing the door prep. The 100HP have a preset Hold-Open force that is not adjustable. The Hold-Open feature is not selectable in these units, so the doors are always held open.



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## 100F Series Friction Hold-Open

(Suffix F) Friction Hold-Open models provide an alternative holding method, ideal for heavy patient room doors, closet doors or similar applications where multiple Hold-Open positions are desired. The friction tension is adjusted using an allen wrench and an open end wrench. The friction tension adjustment is located on the top of the slider in the channel.

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## 100S Series Stop-Only

(Suffix S) When the Hold-Open function is not required, the Stop-Only function provides the same effective door control minus the Hold-Open feature. The Stop-Only model may be used on fire doors.

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## 100SE Series Special Stop-Only

(Suffix SE) When Stop-Only models are used in conjunction with single point Hold-Open electronic door closers, they may be ordered without the shock-absorbing mechanism. Used as an auxiliary stop with these closers, they will prolong the life of the closer. The stop location is adjusted using an allen wrench on the stop block located in the channel.

*Note: Caution should be used when using this option in other applications, as the elimination of the shock-absorbing spring can put added stress on door and frame if used improperly.*

## Application Information

### UL Classification

The 100 series Stop-Only models are classified by Underwriters Laboratories (UL) as Miscellaneous Fire Door Accessories. This classification applies to use on either Hollow Metal Fire Doors or Wood Fire Doors. Where Wood Door manufacturer's listing allows for the cutout required for installation, concealed overhead stops may be used on those wood fire doors. These units may be used on doors of any rating. As a reminder, the Miscellaneous Fire Door Accessories (GVUX) section is defined by UL as: "Miscellaneous fire door accessories are intended in the individual Listings. The accessories have been investigated to determine that when installed in accordance with the manufacturer's instructions, the accessories do not adversely affect the fire rating of the fire door and/or fire door frames."

### Dead Stop Templating:

If a wall or similar obstruction is in place at 110° or less opening angle (i.e. doors that open back-to-back), Dead Stop Templating should be used. This includes all Hold-Open, Friction and Stop-Only models, except when the "SE" Option is used. The Dead Stop position is reached when the shock-absorbing spring is fully compressed, the initial degree of opening will be 5° to 7° less than the Dead Stop opening.

*Example: If the holder is templated to 100° Dead Stop, the door will hold open somewhere between 93° and 95°, but no further than 100°.*

*Note: Do not use dead-stop templating on the 100SE Series since there is no shock-absorbing spring.*

### Environmental Considerations:

Environmental factors should always be considered when specifying overhead holders and stops. Doors that are positioned on a building's exterior or subject to corrosive conditions should be equipped with a holder constructed primarily of stainless steel or brass materials. For interior applications, steel is acceptable, though brass substrates generally provide a more attractive architectural-grade finish.

### Function Conversion Kits

- FK100F—Converts a 100H or 100S unit into a 100F unit.  
To order specify FK100F.
- FK100H—Converts a 100F or 100S unit into a 100H unit.  
To order specify FK100H.
- No kit is needed to convert a 100H or 100F unit into a 100S unit.

## Options

### Suffix ADJ (Adjustable Jamb Bracket):

An additional option on the 100 series is the adjustable jamb bracket, which allows the degree of Hold-Open or Stop angle to be adjusted after installation. Suffix "ADJ" is available in all functions, but only in sizes 3, 4, 5 & 6. ADJ jamb bracket requires additional frame prep. The ADJ option cannot be added to an existing unit, it must be factory ordered.

### Suffix CJ (Closer Jamb Bracket):

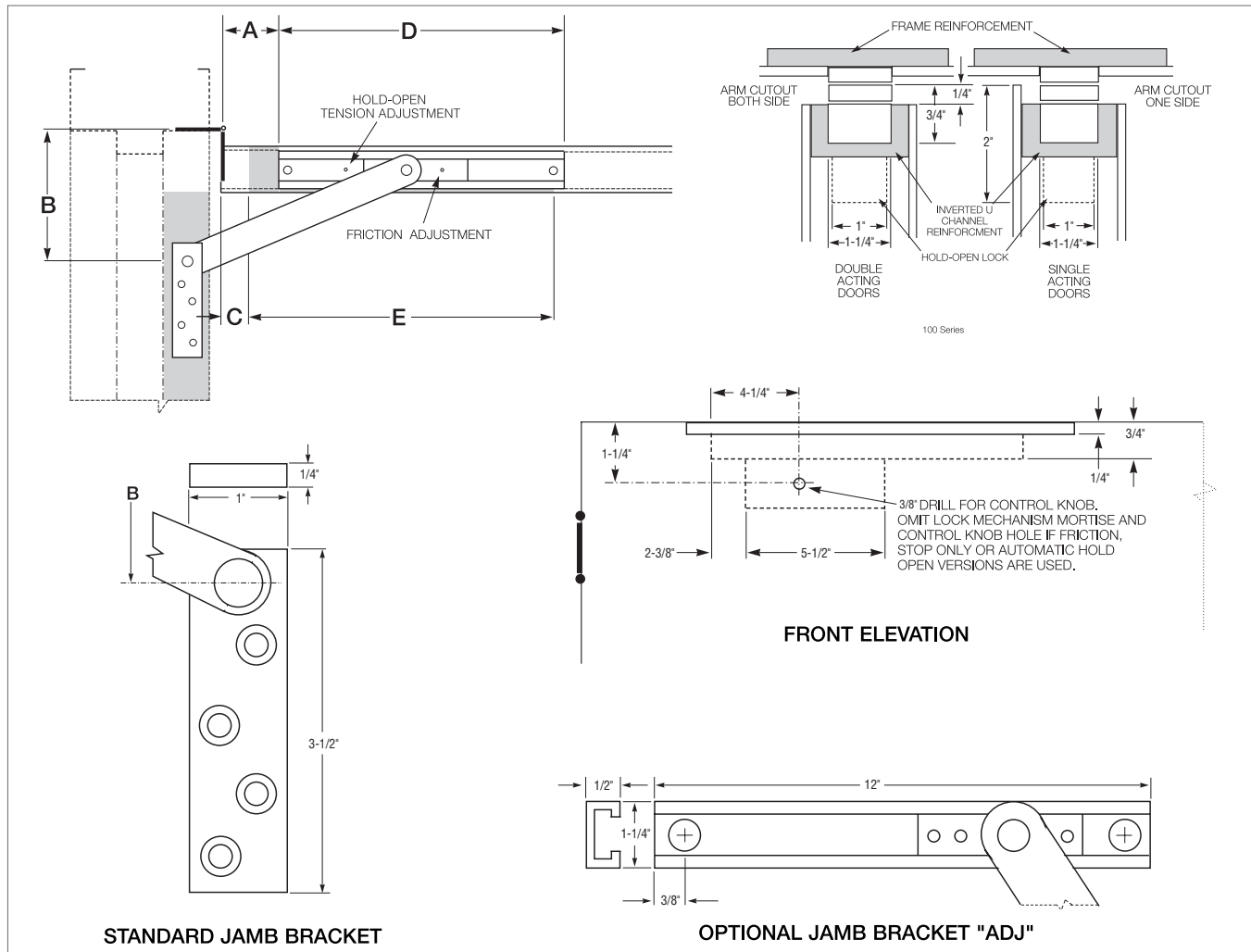
Provides a special jamb bracket needed for 100 series units used with LCN5030 closers. These special jamb brackets are handed, so handing will need to be specified when ordering the "CJ" option, CJLH for a left hand door and CJRH for a right hand door. The CJ option cannot be added to an existing unit, it must be factory ordered.

### Suffix SOC (Pin-in-Socket Security Screw Package):

A screw package with pin-in-socket screws for mounting the jamb bracket to the frame is provided instead of the standard screw package.



# 100 Series Concealed Overhead Door Holders/Stops



100 Series Sizing Chart								
BUTTS/OFFSET PIVOTS					CENTER HUNG			
SIZE	DOOR OPENING	STOP ONLY	HOLD OPEN	FRICTION	DOOR OPENING	STOP ONLY	HOLD OPEN	FRICTION
1	18"-23"	101S*	101H*	101F*	----	----	----	----
2	23-1/16"-27"	102S*	102H*	102F*	----	----	----	----
3	27-1/16"-33"	103S	103H	103F	33-1/16"-39"	103S	103H	103F
4	33-1/16"-39"	104S	104H	104F	39-1/16"-45"	104S	104H	104F
5	39-1/16"-45"	105S	105H	105F	45-1/16"-51"	105S	105H	105F
6	45-1/16"-54"	106S	106H	106F	51-1/16"-59"	106S	106H	106F

Note: This chart illustrates the most common types of hinging and door opening sizes.  
For unusual door details, contact Glynn-Johnson for availability.

\*These sizes are not available for use with offset pivots. Also not available with the ADJ option.

BHMA/ANSI, A156.8 & FED. Spec. Cross Reference		
G-J Model	BHMA*	FED. Spec.
101-106 H	C01511	1160
101-106 S	C01541	----
101-106 F	C01531	----

\* First numeral (0) designates optional material.

To specify:

Brass material, change 0 to 1 (i.e. C11511)

Stainless Steel material, change 0 to 5 (i.e. C51511)

## BHMA

All 100 series models are designed for heavy-duty applications and far exceed BHMA cycle test and force test requirements for Grade 1 holders and stops.

The template information on this page is for reference only and is not intended to serve as an installation template.  
For complete dimensional information, refer to Glynn-Johnson template book.



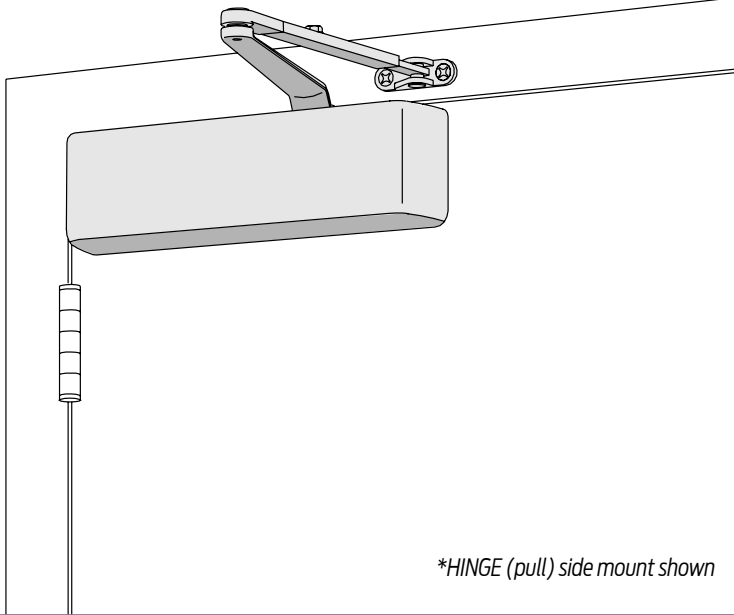
## How to Order

	<u>10</u>	<u>4</u>	<u>H</u>	-	<u>US26D</u>	-	<u>ADJ</u>
<b>Overhead Series:</b> 10							
<b>Size (Door Opening Using Butts or Offset Pivots):</b> 1 (18"-23") 2 (23-1/16"-27") 3 (27-1/16"-33") 4 (33-1/16"-39") 5 (39-1/16"-45") 6 (45-1/16"-54")							
<b>Function:</b> H Hold-Open HP Internal Hold-Open F Friction Hold-Open S Stop-Only SE Special Stop-Only							
<b>Finishes:</b> US3 Polished Brass US4 Satin Brass US10 Satin Bronze US10B Oil Rubbed Bronze US32 Polished Stainless Steel US32D Satin Stainless Steel SP4 Powder Coat Brass SP10 Powder Coat Bronze SP28 Powder Coat Aluminum SP313 Powder Coat Dark Bronze SPBLK Powder Coat Black							
<b>Options:</b> ADJ Adjustable Jamb Bracket CJLH Special Jamb Bracket for LCN 5030 Closer, LH Door CJRH Special Jamb Bracket for LCN 5030 Closer, RH Door SOC Pin-in-Socket Security Screws							

# 4040XP SERIES

## FEATURES

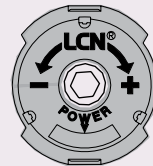
### CLOSER MOUNTS \*HINGE (PULL) SIDE TOP JAMB (PUSH SIDE) PARALLEL ARM (PUSH SIDE)



The 4040XP is LCN's most durable and flexible heavy duty closer designed for institutional and other demanding high traffic applications.

- Cast Iron
- Forged Steel Arm
- Double Heat Treated Steel Pinion
- All Weather Fluid
- Non-Handed
- LCN Patented Green Dial
- Peel-n-Stick Templates for Fast and Accurate Installation
- UL & cUL Listed
- 3/4" Journal Diameter Pinion
- Full Compliment Bearing

- Standard 4040XP Series closer shipped with regular arm, standard plastic cover, and self reaming and tapping screws.
- Non-sized cylinder is adjustable for interior doors to 5'0" and exterior doors to 4'0".
- Closer mounts hinge side, top jamb, and parallel arm on either right or left swinging doors.
- Closers to meet ADA requirements.
- Standard or optional custom powder coat finish.
- Optional plated finish on cover, arm, and fasteners.
- Optional SRI primer for installations in corrosive conditions. (Available with powder coat finishes only.)
- UL and cUL listed for self-closing doors without hold-open.
- Tested and certified under ANSI Standard A156.4, grade one.



The 4040XP Series includes the LCN® "Green Dial" Spring Force Indicator

MOUNTING					FINISH		COVER		CYLINDER				**ARM FUNCTION					
HINGE (PULL) SIDE	TOP JAMB (PULL)	TOP JAMB (PUSH)	PARALLEL ARM	STOP FACE	POWDER COAT	PLATED	PLASTIC	METAL	NON-HANDED	NON-SIZED	ACCESSIBILITY	DELAYED ACTION***	REGULAR (DOUBLE)	STANDARD (SINGLE)	HOLD-OPEN	FUSIBLE LINK	EDA/HEDA	CUSH/HCUSH
●	○	●	●	○	●	●	●	●	●	●	○	○	120°	○	120°	○	180°	110°
												AVB***					110°	○
																		DOUBLE EGRESS

● AVAILABLE  
○ NOT AVAILABLE

♿ Closer available with less than 5.0 lbs. opening force on 36" door.  
 \*\* Maximum opening/hold-open point with standard template.  
 \*\*\* Advanced Variable Backcheck.  
 \*\*\*\* Delayed Action Closer incorporates standard 4041 Delay Cylinder.

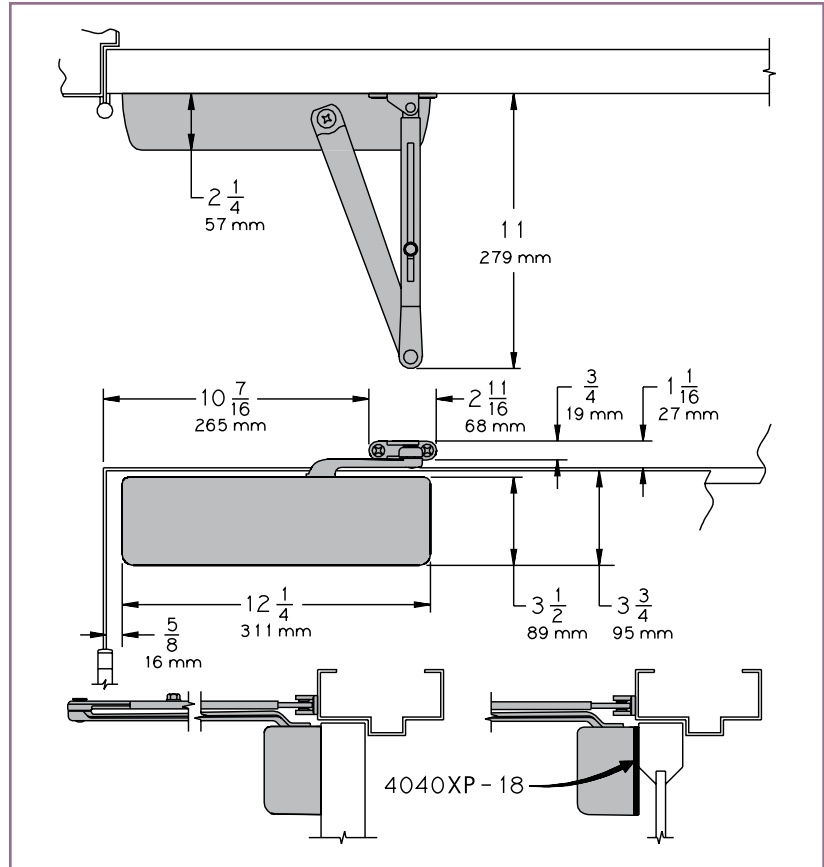
# 4040XP SERIES

## HINGE (PULL) SIDE MOUNTING

### MAXIMUM OPENING

Templating allows up to 120°.

Hold-open points 90° up to 120° with hold-open arm.



- **Butt Hinges** should not exceed 5" (127 mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°.
- **Reveal** should not exceed 3/4" (19 mm) for regular arm or hold-open arm.
- **Top Rail** less than 3-3/4" (95 mm) requires PLATE, 4040XP-18. Plate requires 2" (51 mm) minimum.
- **Clearance** of 2-3/8" (60 mm) behind door required for 90° installation.
- **\*Delayed Action** Incorporates standard 4041 cylinder, without XP cylinder. Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.

### Options

- 4041 Delayed action cylinder\*.
- Hold-open arm.
- Metal cover.

### Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

# 4040XP SERIES

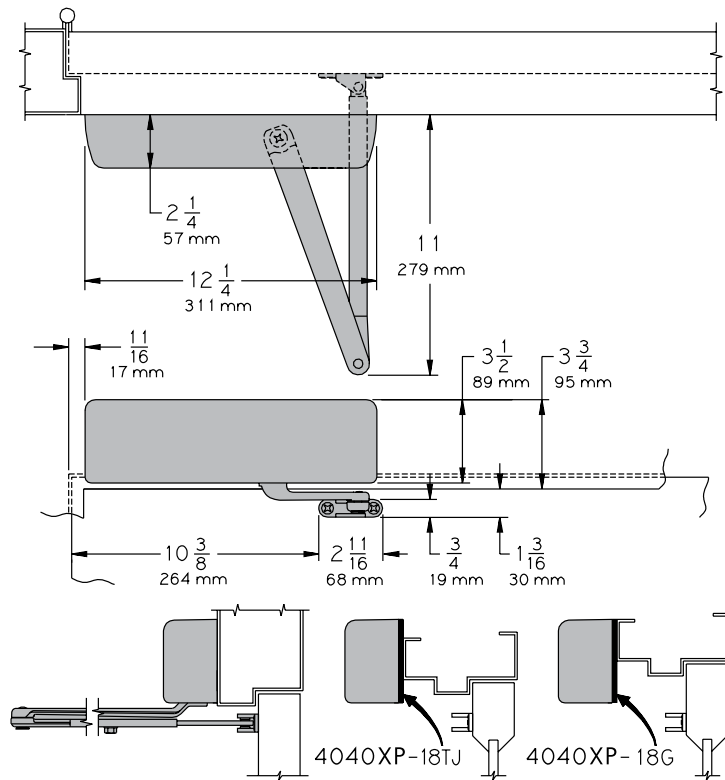
## MOUNTING DETAILS

### TOP JAMB (PUSH SIDE) MOUNTING

#### MAXIMUM OPENING

Templating allows up to 120°.

Hold-open points 85° up to 120° with hold-open arm.



- **Butt Hinges** should not exceed 5" (127 mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°.
- **Reveal** of 2-9/16" (65 mm) allows 120° opening for REGULAR ARM or standard Hold-open ARM. 4-13/16" (122 mm) allows up to 120° opening with LONG ARM where standard rod and shoe is replaced with optional LONG ROD AND SHOE 4040XP-79LR. Use H-LONG ARM with LONG HEAD AND TUBE, 4040XP-78HL for hold-open. 8" (203 mm) allows up to 120° opening with EXTRA LONG ARM where standard rod and shoe is replaced with optional EXTRA LONG ROD AND SHOE, 4040XP-79ELR.
- **Top Rail** requires 1-1/4" (32 mm) minimum.  
2-1/4" (57 mm) minimum with closer on PLATE, 4040XP-18TJ.  
3" (76 mm) minimum with closer on PLATE, 4040XP-18G.
- **Head Frame** less than 3-1/2" (89 mm) requires PLATE, 4040XP-18TJ. With flush ceiling, use PLATE, 4040XP-18G. Either plate requires 1-3/4" (44 mm) minimum.
- **\*Delayed Action** Incorporates standard 4041 cylinder, without XP cylinder. Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.

#### Options

- 4041 Delayed action cylinder\*.
- Hold-open arm.
- Metal cover.

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

# 4040XP SERIES

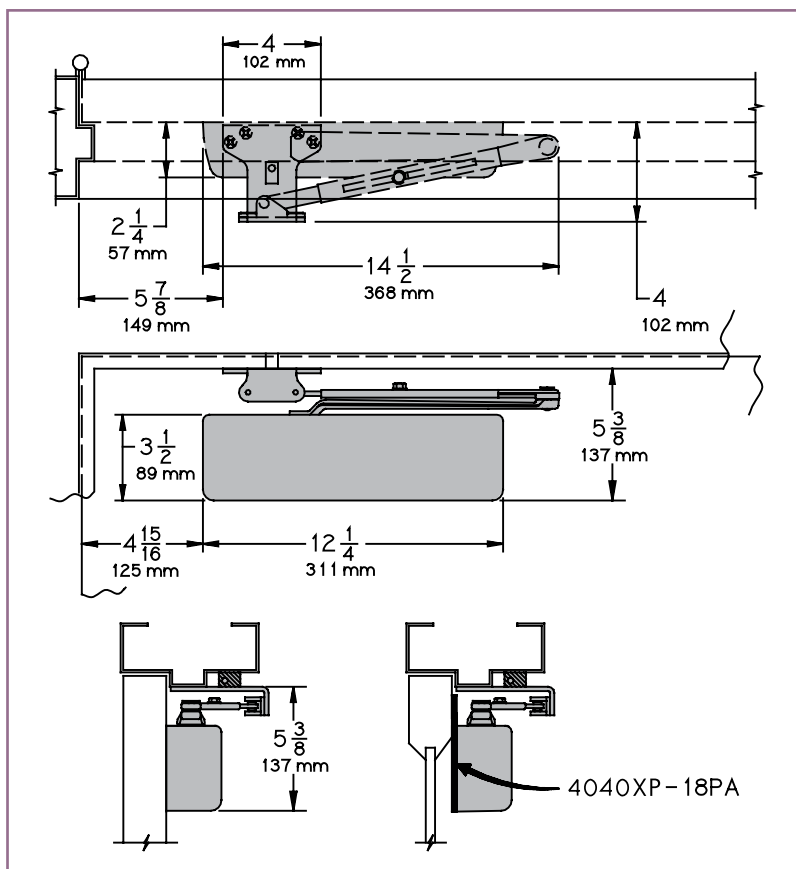
## PARALLEL ARM (PUSH SIDE) MOUNTING

Optional mounting requires PA SHOE, 4040XP-62PA for regular or HOLD-OPEN arms. Add prefix "P" to closer description (eg. P4040XP). P4040XP closer includes 4040XP-201 FIFTH HOLE SPACER to support PA SHOE.

## MAXIMUM OPENING

180° opening/hold-open points with all except CUSH arms.

110° opening/hold-open with CUSH arms.



- **Butt Hinges** should not exceed 5" (127 mm) in width.
- **Auxiliary Stop** is recommended at hold-open point, where the door cannot swing 180°, or where CUSH-N-STOP arm is not used.
- **Clearance** for 4040XP-62PA shoe is 4" (102 mm) from door face.  
EDA shoe projects 5-1/2" (140 mm) from door face.  
CUSH shoe projects 6" (152 mm) from door face.
- **Top Rail** less than 5-3/8" (137 mm) measured from the stop requires PLATE, 4040XP-18PA. Plate requires 2" (51 mm) minimum from the stop.
- **Head Frame** flush or rabbeted requires PA SHOE ADAPTER, 4040XP-419.
- **Stop Width** minimum 1" (25 mm). CUSH arm requires minimum 1-1/2" (38 mm).
- **Blade Stop** clearance requires 1/2" (13mm) BLADE STOP SPACER, 4040XP-61.
- **\*Delayed Action** Incorporates standard 4041 cylinder, without XP cylinder. Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.

### Options

- 4041 Delayed action cylinder\*.
- Hold-open, EDA, HEDA, CUSH, HCUSH, SPRING CUSH or SPRING HCUSH arm.
- Metal cover.

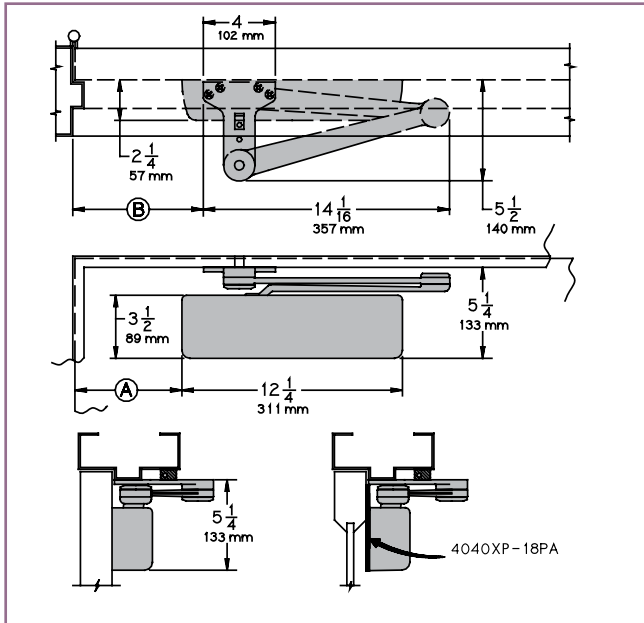
### Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

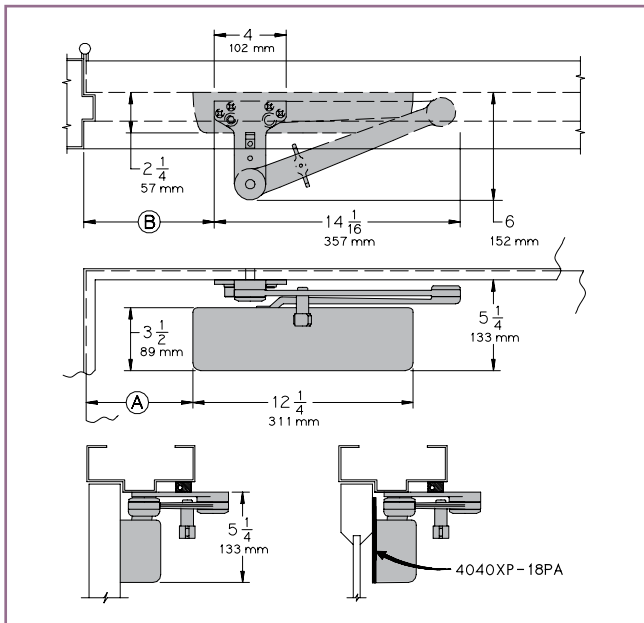


# 4040XP SERIES

## 4040XP SERIES EDA MOUNT



## 4040XP SERIES CUSH MOUNT



Mounting details are the same as 4040XP Series REGULAR or HOLD-OPEN except as listed below. 4040XP Series closers ordered with EDA or CUSH arms include 4040XP-201 FIFTH HOLE SPACER to support the shoe.

### MAXIMUM OPENING

EDA arm can be templated for points at: 110°,

(A) = 6-3/8" (162 mm)

(B) = 7-3/4" (197 mm)

or 180°.

(A) = 2-7/8" (73 mm)

(B) = 4-1/4" (108 mm)

Hold-open points up to maximum opening with HEDA arm.

CUSH arms can be templated for opening/hold-open point at: 85°,

(A) = 7-15/16" (202 mm)

(B) = 9-1/8" (232 mm)

90°,

(A) = 7-3/16" (183 mm)

(B) = 8-1/2" (216 mm)

100°,

(A) = 6-1/16" (154 mm)

(B) = 7-1/4" (184 mm)

or 110°.

(A) = 5-1/16" (129 mm)

(B) = 6-3/8" (162 mm)

Spring Cush dead stop points are approximately 5° more than templated stop point. Hold open at templated stop points.

- **Clearance** for 4040XP-62EDA is 5-1/2" (140 mm) from door face. 6" (152 mm) for CUSH.
- **Head Frame** flush or rabbetted requires CUSH FLUSH PANEL ADAPTER, 4040XP-419.
- **CUSH ARM** requires SHOE SUPPORT, 4040XP-30 for fifth screw anchorage for narrow frames.
- **\*Delayed Action** Incorporates standard 4041 cylinder, without XP cylinder. Delays closing from maximum opening to ; 115° with 180° template, 95° with 110° template, 85° with 100° template, 75° with 90° template. Delay time adjustable up to approximately 1 minute.

# 4040XP SERIES

## CYLINDERS

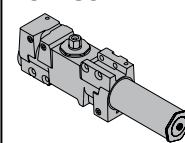
### CYLINDER, 4040XP-3071

Heavy duty, non-handed cast iron cylinder assembly.

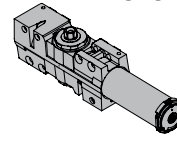
### CYLINDER, 4041-3071 DEL

Cylinder used for delayed action options.

4041-3071 DEL



4040XP-3071



## COVERS

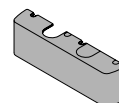
### COVER, 4040XP-72

Standard, non-handed plastic cover.

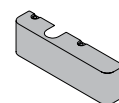
### METAL COVER, 4040XP-72MC

Optional, handed cover. Required for plated finishes and custom powder coat finishes.

72



72MC



## ARMS

### REGULAR ARM, 4040XP-3077

Non-handed arm mounts pull side or top jamb with shallow reveal. P4041 closer includes PA SHOE, 4040XP-62PA required for parallel arm mounting.

### PA SHOE, 4040XP-62PA

Required for parallel arm mounting.

### LONG ARM, 4040XP-3077L

Optional non-handed arm includes LONG ROD AND SHOE, 4040XP-79LR for top jamb mount.

### EXTRA LONG ARM, 4040XP-3077ELR

Optional non-handed arm includes EXTRA LONG ROD AND SHOE, 4040XP-79ELR for top jamb mount with deep reveal.

### HOLD-OPEN ARM, 4040XP-3049

Optional, non-handed arm mounts pull side or top jamb with shallow reveal, hold-open adjustable shoe. 4040XP closer includes 4040XP-62PA shoe required for parallel arm mounting.

### LONG HOLD-OPEN ARM, 4040XP-3049L

Optional non-handed arm includes LONG HEAD AND TUBE, 4040XP-3048L for top jamb mount.

### EXTRA DUTY ARM, 4040XP-3077EDA

Non-handed parallel arm features forged, solid steel main and forearm for potentially abusive installations.

### HOLD-OPEN EXTRA DUTY ARM, 4040XP-3049EDA

Handed parallel arm features forged, solid steel main and forearm for potentially abusive installations. Hold-open function is adjusted at the shoe.

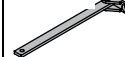
### EXTRA DUTY ARM WITH 62G, 4040XP-3077EDA/62G

Non-handed parallel arm features forged, solid steel main and forearm for potentially abusive installations. 62G shoe provides additional blade stop clearance.

### HOLD-OPEN EXTRA DUTY ARM WITH 62G, 4040XP-3049EDA/62G

Handed parallel arm features forged, solid steel main and forearm for potentially abusive installations. 62G shoe provides additional blade stop clearance. Hold-open function is adjusted at the shoe.

79LR



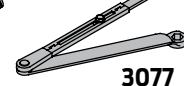
62PA



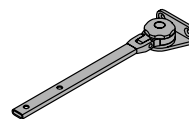
79ELR



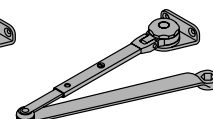
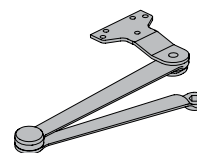
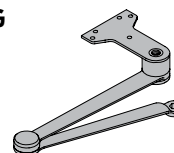
3077



3048L



3049

3049EDA  
3077EDA3049EDA/62G  
3077EDA/62G

# 4040XP SERIES

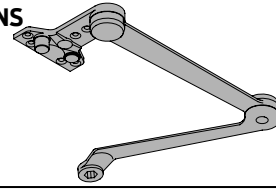
## ACCESSORIES

### ARMS CONT.

#### **CUSH-N-STOP® ARM, 4040XP-3077CNS**

Optional, non-handed parallel arm features solid forged steel main arm and forearm with stop in soffit shoe.

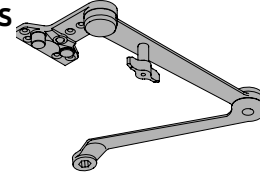
**3077CNS**



#### **HCUSH ARM, 4040XP-3049CNS**

Provides hold-open function with templated stop/hold-open points. Handle controls hold-open function.

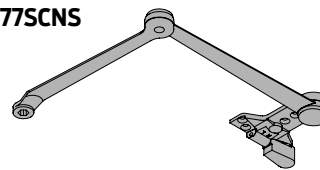
**3049CNS**



#### **SPRING CUSH ARM, 4040XP-3077SCNS**

Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe.

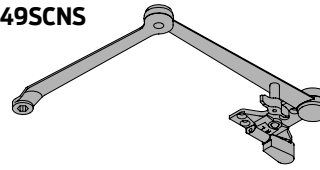
**3077SCNS**



#### **SPRING HCUSH ARM, 4040XP-3049SCNS**

Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe. Handle controls hold-open function.

**3049SCNS**

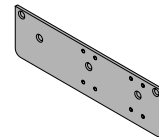


### INSTALLATION ACCESSORIES

#### **PLATE, 4040XP-18**

Required for hinge side mount where top rail is less than 3-3/4" (95 mm). Plate requires minimum 2" (51 mm) minimum top rail.

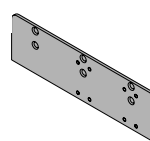
**18**



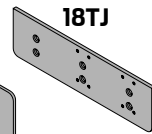
#### **PLATE, 4040XP-18G**

Locates top jamb mounted closer flush with top of head frame face in flush ceiling condition. Plate requires 1-3/4" (44 mm) minimum head frame.

**18G**



**18TJ**



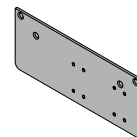
#### **PLATE, 4040XP-18TJ**

Centers top jamb mounted closer vertically on head frame where face is less than 3-1/2" (89 mm). Plate requires 1-3/4" (44 mm) minimum head frame.

#### **PLATE, 4040XP-18PA**

Required for parallel arm mounting where top rail is less than 5-1/2" (140 mm), measured from the stop. Plate requires 2" (51 mm) minimum top rail.

**18PA**



# 4040XP SERIES

## INSTALLATION ACCESSORIES CONT.

### CUSH SHOE SUPPORT, 4040XP-30

Provides anchorage for fifth screw used with CUSH arms, where reveal is less than 3-1/16" (78 mm).

### BLADE STOP SPACER, 4040XP-61

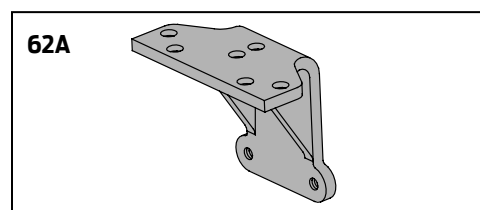
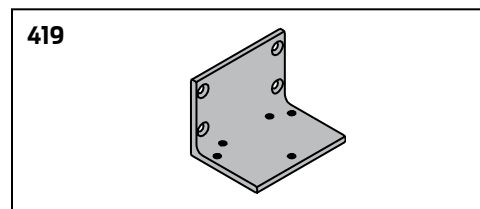
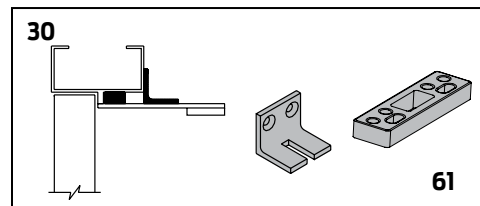
Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop.

### PA FLUSH PANEL ADAPTER, 4040XP-419

Provides horizontal mounting surface for parallel arm shoe on single rabbetted or flush frame.

### AUXILIARY SHOE, 4040XP-62A

Requires a top rail of 7" (178 mm). Optional shoe replaces -62PA for parallel arm mounting of regular arm with overhead holder/stop.



# 4040XP SERIES

## TABLE OF SIZES

4040XP cylinders are adjustable from size 1 through size 6 and is shipped set to size 3.

Closing power of 4040XP Series closers may be adjusted 50%.

### EXTERIOR (and VESTIBULE) DOOR WIDTH

	24" 610mm	30" 762mm	36" 914mm	42" 1067mm	48" 1219mm
	size 3	size 4	size 5	size 6	
<b>*4040XP</b>	→				
Minimum Door Width					

### INTERIOR DOOR WIDTH

	24" 610mm	34" 864mm	38" 965mm	48" 1219mm	54" 1372mm	60" 1524mm
	size 2	size 3	size 4	size 5	size 6	
<b>*4040XP</b>	→					
Minimum Door Width						


→ Indicates recommended range of door width for closer size.

\* Adjustable Size 1 thru 6.

## REDUCED OPENING FORCE 4040XP SERIES CLOSERS

**CAUTION!** Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

	DOOR WIDTH	36"	42"	48"
	8.5* lbs.	4040XP	4040XP	4040XP
	5.0* lbs.	4040XP	4040XP	4040XP

\* Maximum opening force.

## HOW-TO-ORDER 4040XP SERIES CLOSERS

### 1. SELECT FINISH

- ☐ Standard Powder Coat \_\_\_\_\_  
Aluminum, Dark Bronze, Statuary,  
Light Bronze, Black, Brass.

### Closer will be shipped with:

- STANDARD CLIP-ON COVER
- SPECIFY ARM WHEN ORDERING
- SELF-REAMING and TAPPING SCREWS,  
unless options listed below are selected.

## CLOSER OPTIONS

### CYLINDER

- ☐ Delayed Action (4041 DEL)

### COVER

- ☐ Metal (specify right or left hand) (MC)

### FINISH

- ☐ Custom Powder Coat (RAL) \_\_\_\_\_  
(handed metal cover required)
- ☐ Plated Finish, US \_\_\_\_\_  
(handed metal cover required)
- ☐ SRI primer (use with powder coat finishes only)

### ARM

- ☐ Regular (REG)
- ☐ Regular w/62PA (Rw/PA)
- ☐ Regular w/62A (R/62A)
- ☐ Long (LONG)
- ☐ Extra Long (XLONG)
- ☐ Hold-Open (H)
- ☐ Hold-Open w/62PA (Hw/PA)
- ☐ Long Hold-Open (HLONG)
- ☐ Extra Duty Arm (EDA)
- ☐ Extra Duty Arm with 62G (EDA/62G)
- ☐ Hold Open Extra Duty Arm (HEDA) (Handed)
- ☐ Hold Open Extra Duty Arm with 62 (HEDA/62G) (Handed)
- ☐ Cush-N-Stop (CUSH)
- ☐ HCush-N-Stop (HCUSH)
- ☐ Spring Cush (SCUSH)
- ☐ Spring HCush (SHCUSH)

### OPTIONAL SCREW PACKS

- ☐ TB\* w/Self-Reaming and Tapping (TBSRT)
- ☐ Wood & Machine Screw (WMS)
- ☐ TB\*, Wood & Machine Screw (TBWMS)
- ☐ TORX Machine Screw (TORX)
- ☐ TB\* & TORX Machine Screw (TBTRX)
- \* Specify door thickness if other than 1-3/4".

### INSTALLATION ACCESSORIES

- ☐ Plate, 4040XP-18
- ☐ Plate, 4040XP-18TJ
- ☐ Plate, 4040XP-18G
- ☐ Plate, 4040XP-18PA
- ☐ CUSH Shoe Support, 4040XP-30
- ☐ Blade Stop Spacer, 4040XP-61
- ☐ Auxiliary Shoe, 4040XP-62A
- ☐ PA Flush Panel Adapter, 4040XP-419

### SPECIAL TEMPLATE

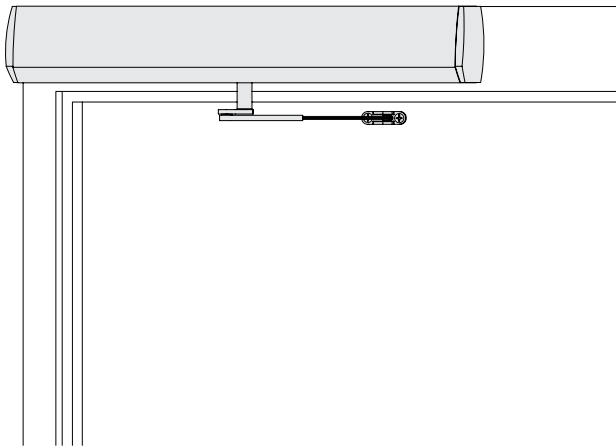
- ☐ ST- \_\_\_\_\_

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2/14

# 9140 SERIES

## FEATURES

### SINGLE DOOR, SURFACE MOUNT (PUSH) OFFSET PIVOT/BUTT HINGE



The 9140 BENCHMARK by LCN is an electrically powered low-energy operator. It provides easy access for people with disabilities, or the elderly. Designed primarily for automatic opening applications that occasionally require manual opening. The BENCHMARK is a cost-effective solution for retrofitting an activated or manual door.

- Push 'N Go permits non-switch activation.
- Microprocessor control box ensures reliability and maintains customer settings.
- Power Boost allows for increased closing force near latch.

- 9140 Series operator is shipped with motor gearbox, control box, mounting plate, regular arm, metal cover, standard track, wood and machine screw pack. Actuators available separately, see pages 122-137.
- Single interior door, surface mounted.
- ADA compliant.
- On/Off switch included as standard.
- Non-handed for either right or left swinging door.
- 27" cover is standard. 36" optional.
- All potentiometers clearly labeled with their functions.
- LED lights indicate power to control box and motor gearbox.

*9140 Series is fully compliant with UL 325 and meets the provisions of ANSI A156.19. The 9140 Series is UL listed for fire-rated applications. The 9140 Series also meets the provisions of the Americans with Disabilities Act.*

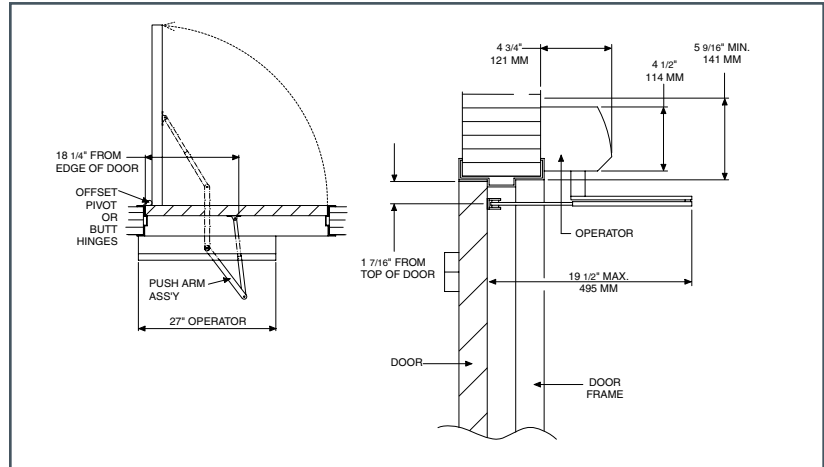
MOUNTING						HANDING		FINISH	COVER	ARM FUNCTION			
●	SURFACE MOUNT SINGLE DOOR					○	●	STANDARD ANODIZED	●	STANDARD (SINGLE LEVER)			
	SURFACE MOUNT SIMULTANEOUS PAIR									REGULAR (DOUBLE LEVER)			
	SURFACE MOUNT INDEPENDENT PAIR					○	●			DOUBLE EGRESS (PUSH/PULL)			
	CONCEALED SINGLE DOOR									OFFSET PIVOT BUTT HINGE ARM			
	CONCEALED SIMULTANEOUS PAIR					○	●			CENTER PIVOT ARM			
	CONCEALED INDEPENDENT PAIR												
HANDED						NON-HANDED		●	METAL				

● AVAILABLE  
○ NOT AVAILABLE



# 9140 SERIES

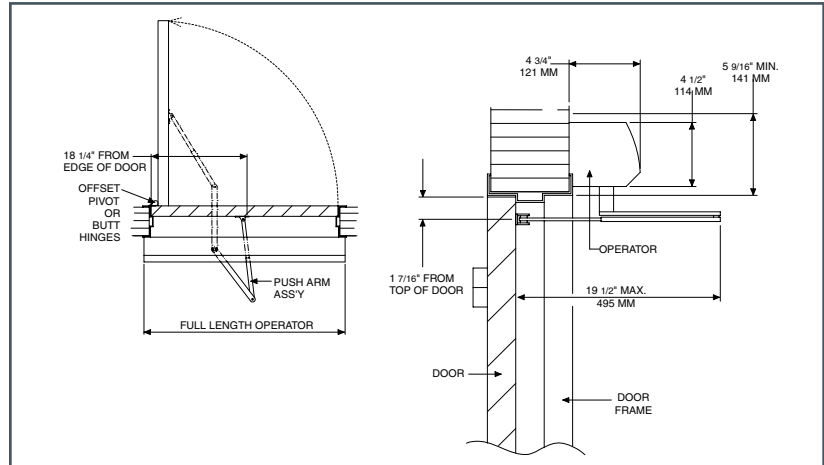
## TOP JAMB SINGLE DOOR (OFFSET/BUTT HINGE, CENTER PIVOT, PUSH, STANDARD COVER) MOUNTING



## TOP JAMB SINGLE DOOR (OFFSET/BUTT HINGE, CENTER PIVOT, PUSH, FULL COVER) MOUNTING

### MAXIMUM OPENING

Template allows 90 degree power opening and 90 degree manual opening.



- **Butt Hinges** should not exceed 5" (127 mm) in width.
- **Reveal** for push installations should not exceed 6" (152 mm) for REGULAR ARM and 9-3/4" (248 mm) for LONG ARM.
- **Head Frame** minimum 2" (51 mm).
- **Top Rail** minimum 2" (51 mm). Flush ceiling installation requires 5-1/4" (133 mm) minimum.
- **Opening and Closing Time** are variable by adjustments to the electronic control module located on the operator assembly. Maximum hold open time adjustable up to approximately 30 seconds.
- **System Diagram** see "AUTOMATIC OPERATORS" section pages 53 for typical system wiring and page 56 for electrical data.

Contact LCN Product Support  
for installation assistance.

# 9140 SERIES

## ACCESSORIES

### MOTOR GEARBOX

#### MOTOR GEARBOX ASSEMBLY, 9140-3454S

Driving mechanism for operator. (Switch included.) For 27" unit.

#### MOTOR GEARBOX ASSEMBLY (W/O SWITCH), 9140-3454

Driving mechanism for operator. (Switch not included.) For full length unit (36").

### BRACKETS

#### MOUNTING BRACKET, 9140-3018

Standard mounting bracket.

#### SWITCH BRACKET – 29" CABLE, 9140-3351-1

Bracket used to locate switch at end of cover on full length unit.

#### SWITCH BRACKET – 41" CABLE, 9140-3351-2

Bracket used to locate switch at end of cover on full length unit.

### CONTROL BOXES

#### CONTROL BOX, (120v), 9130-3462

Electronic controlling device with power supply output and power boost feature for Benchmark.

### COVERS

#### METAL COVER, 9140-72MC

Standard, 27", non-handed, extruded aluminum cover.

#### FULL METAL COVER, 9140-72FC

36" Full length, non-handed, extruded aluminum cover.

#### COVER INSERT 9140-163

Used to cover operator shaft opening. (Includes 2 pieces).

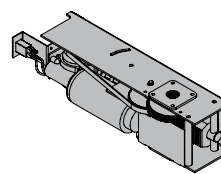
#### COVER END CAP INSERT, 9140-163-1

Used to cover switch hole opening.

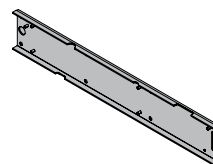
#### COVER END CAP, 9140-334

Black plastic end caps. (Includes 9130-163-1 cover and cap insert).

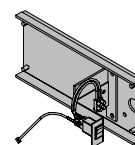
3454  
3454S



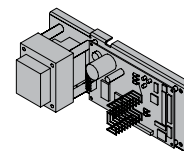
3018



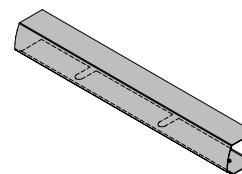
3351-1  
3351-2



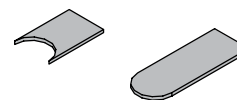
3462



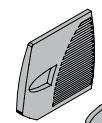
72MC  
72FC



163



334



163-1

NOTE (\*334 includes 163-1)

# 9140 SERIES

## ARMS

### REGULAR ARM, 9140-3077

Non-handed arm.

### LONG PUSH ARM, 9140-3077L

Non-handed long arm.

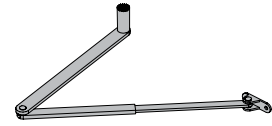
### ROD & SHOE, 9140-79

Rod for use with regular arm.

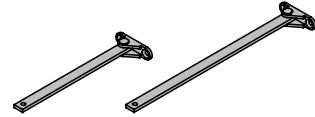
### LONG ROD & SHOE, 9140-79LR

Long rod used with long arm, for deep reveals.

3077  
3077L



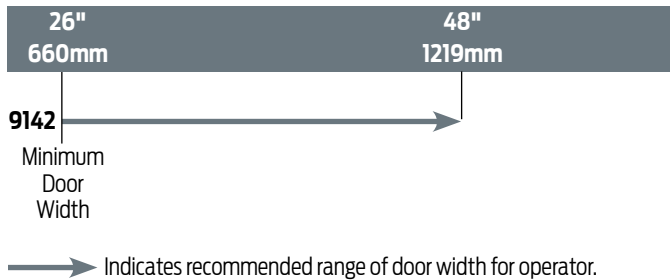
79LR  
79



# 9140 SERIES

## TABLE OF SIZES

### DOOR WIDTH



NOTE: For All Benchmark Series.

30" minimum door width for 27" pull operator.

36" door width only for full length pull operator.

## HOW-TO-ORDER 9140 SERIES OPERATORS

### 1. SPECIFY FINISH

- ☐ Standard Anodized Finish \_\_\_\_\_  
Aluminum or Dark Bronze.

### Operator will be shipped with:

- STANDARD MOTOR GEARBOX,
  - STANDARD CONTROL BOX,
  - MOUNTING BRACKET,
  - 27" METAL COVER,
  - STANDARD ARM (3077),
  - STANDARD TRACK w/TRACK ROLLER,
  - WOOD and MACHINE SCREW PACK
- Unless options listed below are selected.

## OPERATOR OPTIONS

### COVER

- ☐ 36" Full Cover

### ARM

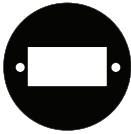
- ☐ Long Arm (3077L)  
(reveals 6" to 9-3/4")

ORDERING INFORMATION

## 8310 Series Actuator Accessories

**March  
2014**

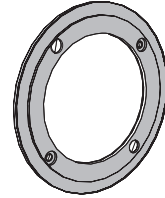
8310-800



8310-801



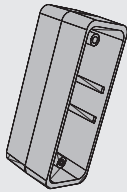
8310-802



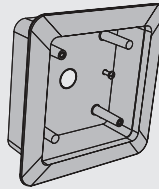
8310-819F



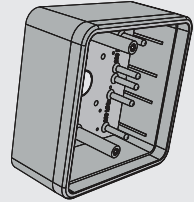
8310-819S



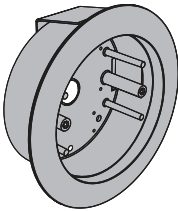
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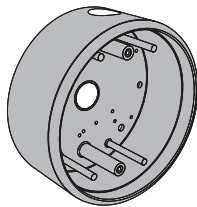
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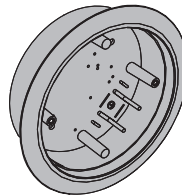
8310-868F



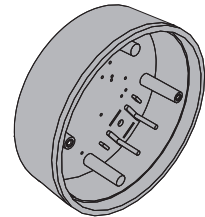
8310-868S



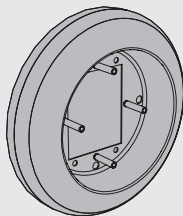
8310-869F



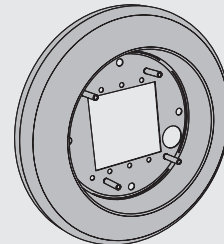
8310-869S



8310-874



8310-876



# AUTOMATIC OPERATOR ACTUATORS & ACCESSORIES

## 8310 Series 6" Surface and Flush mounts

### WALL MOUNTED ACTUATOR, 8310-852

Hardwired low voltage actuator with round, stainless steel touch plate in 6" (152mm) diameter. Engraved blue filled handicap symbol conforms to most accessibility codes. Designed to mount in a flush or surface mount box (sold separately) in/on a vertical surface near the controlled door. Optional mounting in single gang electrical box (by others) or double gang box (4" x 4" by others). Heavy industrial grade components provide vandal resistant mounting and weather resistant switch standard.

### WALL MOUNTED ACTUATOR, 8310-852T

Same as the 8310-852, with the added engraving of "Push to Open".

### WALL MOUNTED ACTUATOR, 8310-852WP

Wireless, low profile, low voltage actuator with round, stainless steel touch plate in 6" (152mm) diameter. Engraved blue filled handicap symbol conforms to most accessibility codes. Surface mount box includes integral transmitter w/ battery and actuator switch. Heavy industrial grade components provide vandal resistant mounting and weather resistant switch standard. Requires 8310-865 Receiver.

### WALL MOUNTED ACTUATOR, 8310-852TWP

Same as the 8310-852WP, with the added engraving of "Push to Open".

### FLUSH MOUNT BOX, 8310-869F

Rugged Plastic Box, 6" Round. Optional accessory - Can be used w/ any 6" round actuator.

### SURFACE MOUNT BOX, 8310-869S

Rugged Plastic Box, 6" Round. Optional accessory - Can be used w/ any 6" round actuator.

### WEATHER/TRIM RING, 8310-802

Plastic Weather/Trim Ring, 6" Round. Optional accessory - Can be used w/ any 6" round plastic mounting box.

### TRANSMITTER, 8310-844

Transmitter, Wireless, 1 Channel, 9v battery included. Use to convert standard wall mount actuator to wireless. Requires 8310-865 Receiver.

### RECEIVER, 8310-865

Receiver, Wireless, 1 Channel, w/ Sequencing Feature Used in conjunction w/ Wireless Actuators & Transmitter(s).

### ESCUTCHEON, 8310-876

Tapered stainless steel escutcheon covers the gap between the wall and the back of the wall plate actuators when mounted in electrical boxes (by others) to minimize cart damage or vandalism. Optional accessory - Can be used w/ any 6" round actuator.

852



852T



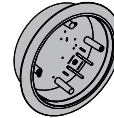
852WP



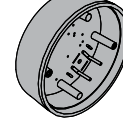
852TWP



869F



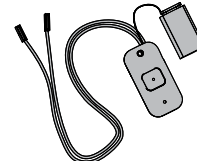
869S



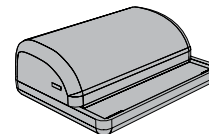
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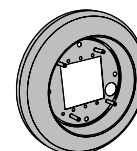
844



865



876







CM-AF500



CM-AF501SO



CM-AF540SO



CM-AF550R

## CM-AF500 SERIES LED ANNUNCIATORS

### FEATURES

- **CM-AF500:** (6) MESSAGE INSERT LABELS INCLUDED, ENGLISH, FRENCH AND BILINGUAL
- **CM-AF501SO:** (1) 'ASSISTANCE REQUESTED' LABEL, ENGLISH. FRENCH AND BILINGUAL VERSIONS AVAILABLE WITH ADJUSTABLE 85DB SOUNDER
- **CM-AF540SO:** DOUBLE GANG, RED MUSHROOM 'PRESS FOR EMERGENCY ASSISTANCE' BUTTON AND 'ASSISTANCE REQUESTED' LED ANNUNCIATOR, WITH ADJUSTABLE 85DB SOUNDER
- **CM-AF550R:** DOUBLE GANG, RED MUSHROOM 'PUSH TO LOCK' BUTTON AND 'LOCKED' LED ANNUNCIATOR
- CUSTOM MESSAGES (TEXT, GRAPHICS AND COLORS) AVAILABLE UPON REQUEST
- 'SUPER BRIGHT' LEDS FOR HIGH VISABILITY, EVEN IN DAYLIGHT
- TEXT/GRAPHICS ARE NOT LEGIBLE WHEN NOT ILLUMINATED
- VANDAL AND WEATHER RESISTANT CONSTRUCTION
- LOW CURRENT DRAW
- 3 YEAR WARRANTY

### DESCRIPTION

**Camden Door Controls CM-AF500 Series** illuminated signs and combination sign and push buttons, are designed to provide critical messages, as needed, to building occupants. When not illuminated, the sign (text and/or graphics) is invisible. When illuminated, the text/ graphics are highly visible, even in daylight. The CM-AF500 comes with 6 labels that can be easily switched during installation. Custom signs (text, graphics and colors) are available upon request.

CM-AF500 series offer heavy duty stainless steel construction for resistance to vandalism, and are supplied with a rubber gasket for use in weather/water resistant applications.

### APPLICATIONS

CM-AF500 series illuminated signs and combination sign and push buttons are vandal and weather resistant, and have been specifically designed to communicate messages to building occupants under changing conditions (i.e. when a restroom door is electrically locked or there is a system alarm/trouble). Field selectable 12/30V AC/DC operation allows the sign to be used in a variety of low voltage applications, including automatic door, access control and other low voltage systems.

ELECTRIC STRIKES

CABINET LOCKS

MAGNETIC LOCKS

DOOR ALARMS

RELAYS & TIMERS

POWER SUPPLIES

TRANSFORMERS

ANNUNCIATORS

RESTROOM CONTROL KITS

## ARCHITECTS / ENGINEERS SPECIFICATIONS

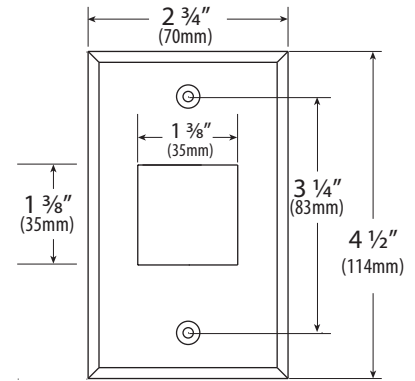
The LED illuminated annunciators to be used throughout the site/ complex shall be Camden Door Controls CM-AF500 Series.

The faceplate shall be constructed of heavy gauge stainless steel and shall have a 1 3/8" square LED illuminated message, visible only when lit. When not lit, the message shall not be readily legible. The LED illuminated annunciators shall be constructed so that the message cannot be scratched or removed by vandalism. For installation outdoors, the face of the units shall be sealed and mounted to the electrical box utilizing a weatherproof rubber gasket. The unit shall be supplied with stainless steel Torx or snake eye security screws.

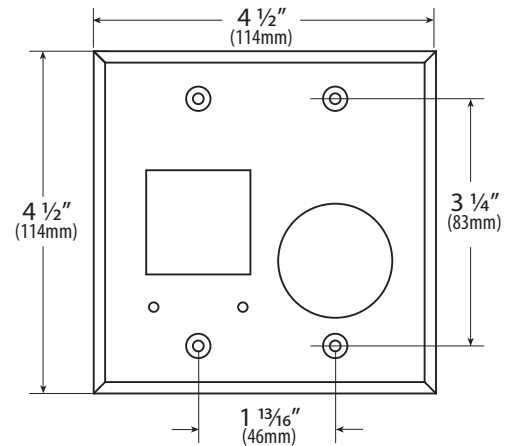
The LED illuminated annunciators shall be 12/30V AC/DC.

## SPECIFICATIONS

VOLTAGE:	12/30V AC/DC
CURRENT DRAW:	CM-AF500 /CM-AF550R: 30 – 50 MA CM-AF501SO/ CM-AF540SO: 30 - 75MA
TEMP RANGE:	32°F - 176°F (0°C - 80°C)
CONSTRUCTION:	18 GAUGE STAINLESS STEEL FACEPLATE
STD. FINISH:	US 32/C32D
SOUNDER:	CM-AF501SO/CM-AF540SO: ADJUSTABLE, 85DB @ 10CM MAX
PUSH BUTTON:	CM-AF540SO: MAINTAINED (PUSH/PULL), N/O & N/C, 6A @ 30VDC  CM-AF550R: MOMENTARY (SPRING ACTION), N/O, 6A @ 30VDC
DIMENSIONS:	CM-AF500/CM-AF501SO: 4 1/2"H x 2 3/4"W x 9/16"D (114mm x 70mm x 15mm)  CM-AF540SO/CM-AF550R: 4 1/2"H x 4 1/2"W x 9/16"D (114mm x 114mm x 15mm)



FRONT VIEW  
CM-AF500/CM-AF501SO



FRONT VIEW  
CM-AF540SO/CM-AF550R

## ORDERING INFORMATION

All illuminated annunciators come complete with faceplate, LED, message labels, rubber gasket and fastener kit.

MODELS	DESCRIPTION
CM-AF500:	SINGLE GANG ILLUMINATED ANNUNCIATOR, 12/30V, WITH 6 MESSAGE LABELS INCLUDED: 'OCCUPIED WHEN LIT' (GREEN), 'LOCKED WHEN LIT' (GREEN), 'OCCUPIED/OCCUPE' (RED AND GREEN), 'ARMED' (RED), 'UNLOCKED' (GREEN)
CM-AF501SO:	SINGLE GANG LED ANNUNCIATOR WITH ADJUSTABLE SOUNDER, 'ASSISTANCE REQUESTED' (RED). ADD SUFFIX 'F' FOR FRENCH, SUFFIX 'FE' FOR BILINGUAL
CM-AF540SO:	DOUBLE GANG, RED MUSHROOM 'PRESS FOR EMERGENCY ASSISTANCE' BUTTON AND 'ASSISTANCE REQUESTED' (RED) LED ANNUNCIATOR WITH ADJUSTABLE 85DB SOUNDER. ADD SUFFIX 'F' FOR FRENCH, SUFFIX 'FE' FOR BILINGUAL
CM-AF550R:	DOUBLE GANG, RED MUSHROOM 'PUSH TO LOCK' BUTTON AND 'LOCKED' (RED) LED ANNUNCIATOR. ADD SUFFIX 'F' FOR FRENCH, SUFFIX 'FE' FOR BILINGUAL

Red

OCCUPIED  
OCCUPÉ

ARMED

Green

LOCKED  
WHEN  
LIT

OCCUPIED  
WHEN  
LIT

OCCUPIED  
OCCUPÉ

UNLOCKED

CM-AF500  
INSERTS

8400 Series Protection Plates

- Door protection plates are available in .050" thick brass, stainless steel or aluminum; and 1/8" thick high impact polyethylene in clear or black.
- Bevel edge options; specify B4E for all four edges.
- Mounting screw pack furnished standard, 16 screws per pack. Optional screw packs are available for TEK or TORK screw heads. Refer to the following chart for ordering.
- Specify NMH for no mounting holes. (Not available on 8402)
- Specify NMH-A for no mounting holes with adhesive. (Not available on 8402)
- Specify CS for counter sunk mounting holes.
- Specify ERS prepped with extra row of screws.

**Kickplate Gasket Tape** Tape is recommended when using a brass plate on a metal door to reduce tarnishing from electrolytic oxidation. One tape pack will cover an the perimeters of a 8" x 34" kickplate. Order 8401 Gasket Tape.



8400 Protection Plate  
8402 (UL)\* Protection Plate

*\*UL mark appears in upper right corner. Factory supplied screws must be used.*  
Number of screw packs required by plate size (specify TEK Screws or TORK screws).

	22"-25"	26"-33"	34"-41"	42"-48"
4"-8"	1	1	1	1
9"-16"	1	1	1	1
17"-24"	1	1	1	2
25"-32"	1	1	2	2
33"-40"	1	2	2	2
41"-48"	2	2	2	2

**Finishes brass 24" x 48" max. size**

US Number	US3	US4	US10	US10B	US15	US26	US26D
BHMA	605	606	612	613	619	625	626

**Finishes stainless steel**

US Number	US32	US32D
BHMA	629	630

**Finishes aluminum**

US Number	US28
BHMA	628

**Finishes plastic**

Clear and Black
-----------------

Residential Grade Kickplates available Carded only, finishes PA28, PA3, PA619, PA716, B3, B505, B619, B716

**A**  
Hinges & Pivots



### Mop Plates

- Protect the bottom of the pull side of door subject to cleaning and mopping procedures.
- Size Ranges: 4" to 6" high, 22" to 48" wide

**B18**  
Pulls & Plates



### Kick Plates

- Protect the bottom of the push side of doors subject to scuffing from foot traffic.
- Recommended for all doors subject to normal use (especially doors using a closer).
- Size Ranges: 8" to 24" high, 22" to 48" wide

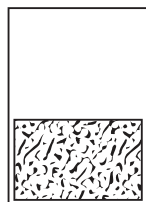
**C**  
Flush Bolts & Coordinators



### Stretcher Plates

- Protect doors at specific areas where consistent contact is made by stretchers, service carts or other equipment.
- Usually applied to push side of doors.
- Specify "B4E" Option for beveled edges.
- Size Ranges: 6" to 8" high, 22" to 48" wide

**D**  
Latches, Catches & Bolts



### Armor Plates

- Protect lower half of doors from abuse by hard carts, trucks and rough usage.
- Usually applied to push side of single doors and both sides of double acting doors.
- Size Ranges: 26" to 48" high, 22" to 48" wide

**E**  
Stops

**F**  
Exterior Hardware

**G**  
Miscellaneous Hardware



### WS406CVX Wall Bumpers WS406CCV WS407CVX WS407CCV

WS406CVX & WS407CVX  
Meets ANSI/BHMA 156.16 L22201 for brass,  
and L52101 for stainless steel.

WS406CCV & WS407CCV  
Meets ANSI/BHMA 156.16 L22251 for brass  
and L52251 for stainless steel.

- Constructed in sturdy yet economical wrought base of brass or stainless steel construction.
- Feature concealed tamper-proof mounting.
- Shipped factory preassembled backplate to reduce installation cost.
- Easy installation by inserting screwdriver through small hole in rubber.

WS406CVX (406) – convex rubber bumper, packed with wood screw and plastic anchor.

WS406CCV (406-1/2) – concave rubber bumper, which avoids damage to locks with projecting buttons, packed with wood screw and plastic anchor.

WS407CVX (407) – convex rubber bumper packed with screw and drywall anchor.

WS407CCV (407-1/2) – concave rubber bumper which avoids damage to locks with projecting buttons and is packed with screw and drywall anchor.

#### Dimensions

Base Diameter: 2-1/2"

Base Thickness: 3/8"

Overall Projection: 1"

#### Finishes *brass*

Ives Number	US3	US4	US5*	US10	US10B	US15	US15A**	US26	US26D	B716**
BHMA	605	606	609*	612	613	619	620	625	626	

#### Finishes *stainless steel*

Ives Number	US32D
BHMA	630

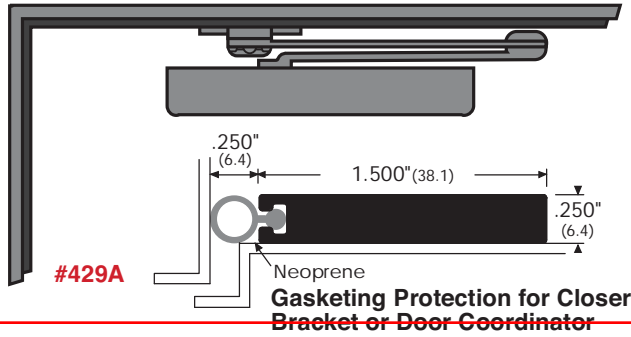
\* only available on WS407CVX Slim-Pak of 15

\*\* available on WS407CCV or WS407CVX Slim-Pak of 15

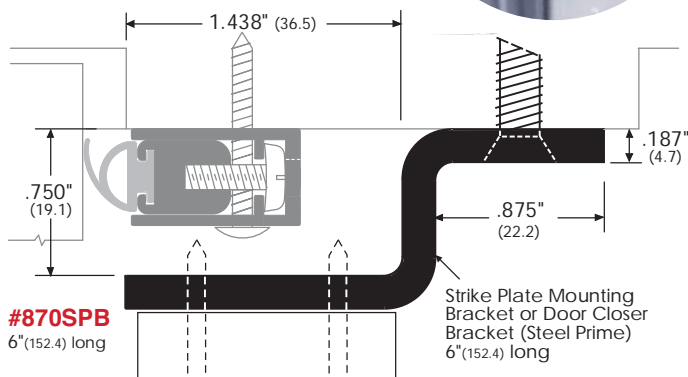
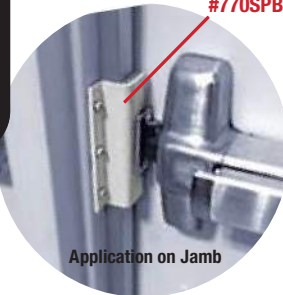
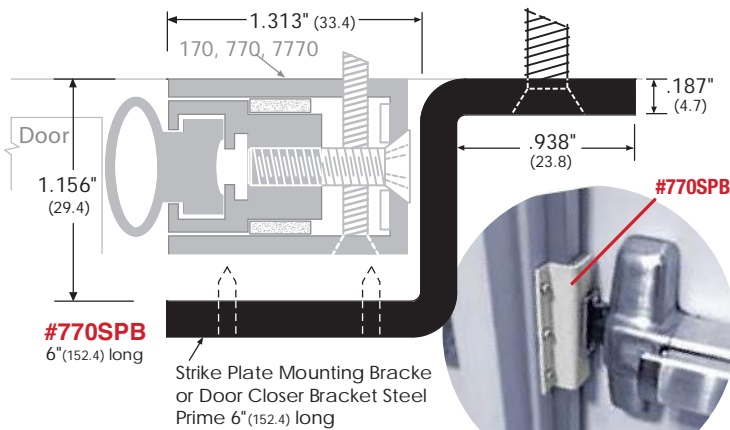
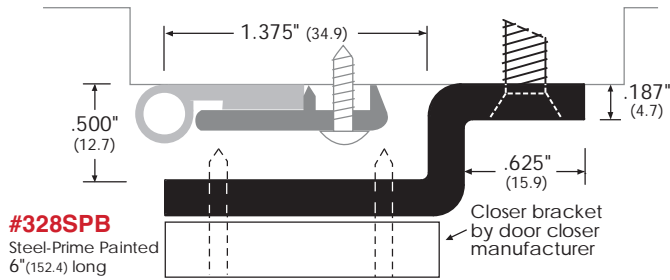
# Head and Jamb Protection



Note: A = Aluminum  
D = Dark Bronze Anodized  
SP = Steel Primed  
B = Bronze  
G = Gold Anodized

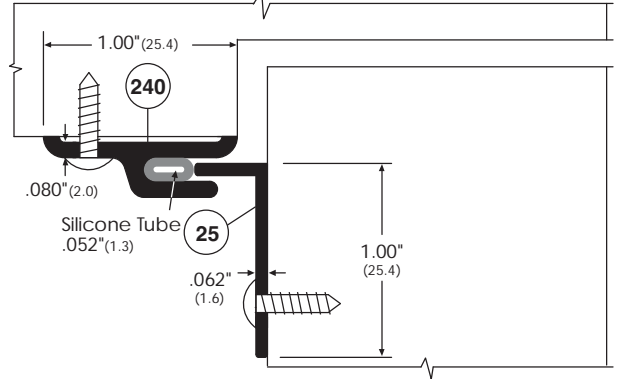


## STRIKE PLATE MOUNTING BRACKETS (Custom sizes available upon request)

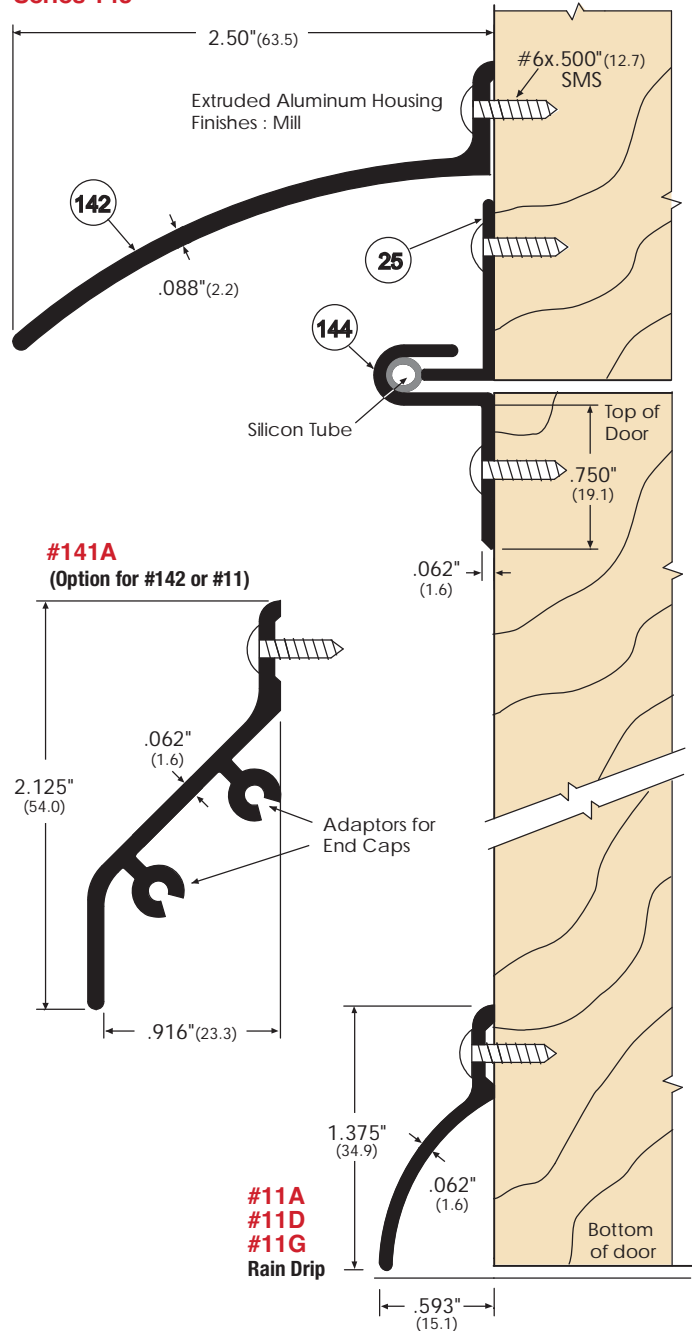


## Series 42A Head and Lock-side Jamb

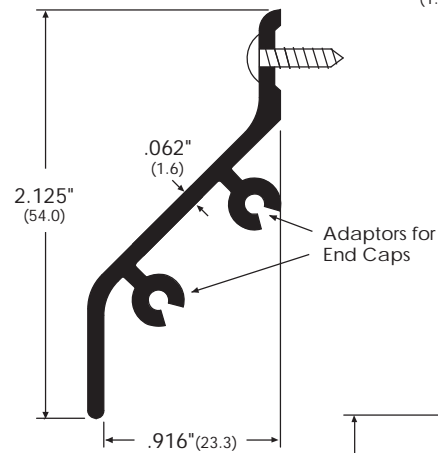
Security seal—when installed with tamper-proof fasteners (#7272ST).



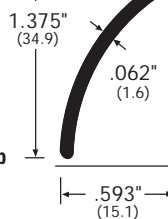
## INTERLOCKING WATER SHED For Outswinging Doors Series 148

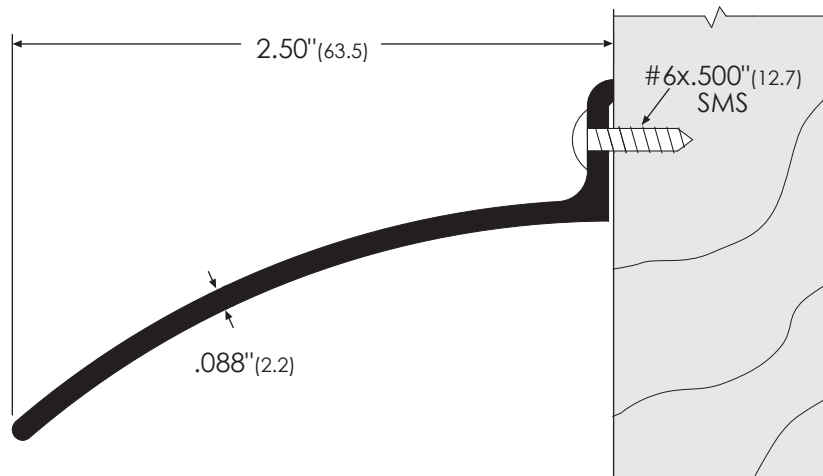


## #141A (Option for #142 or #11)



## #11A #11D #11G Rain Drip





**Legend:**

A = Aluminum

ANSI/BHMA

#142A

R3Y976

	415 Concord Avenue Bronx, NY 10455 tel: 718.585.3230 fax: 718.292.2243 email: zero@zerointernational.com web site: www.zerointernational.com		<b>Part No:</b> 142	
	<b>Notes:</b>		<b>Part Description:</b> Rain Drip - Aluminum	
<b>Provided By:</b>	<b>Customer Name:</b>	<b>Job No:</b>	<b>Date:</b>	



# FIRE PERFORMANCE

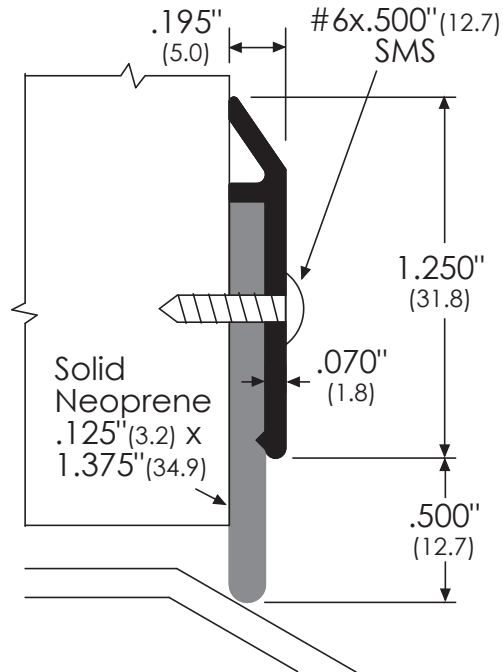


This seal is non-flammable

# SMOKE PERFORMANCE



The rubber seal in this gasket provides protection from smoke infiltration in accordance with provisions of NFPA 101 Life Safety Code and NFPA 80 Standard for Fire Doors and Other Opening Protectives



## Legend:

A = Aluminum  
D = Dark Bronze Anodized

ANSI/BHMA

#39A / 39D

R3B434



415 Concord Avenue tel: 718.585.3230  
Bronx, NY 10455 fax: 718.292.2243  
email: zero@zerointernational.com  
web site: www.zerointernational.com

**Part No:**

39

**Notes:**

**Part Description:**

Door Sweep

- Surface Mounted  
Aluminum with Neoprene

**Provided By:**

**Customer Name:**

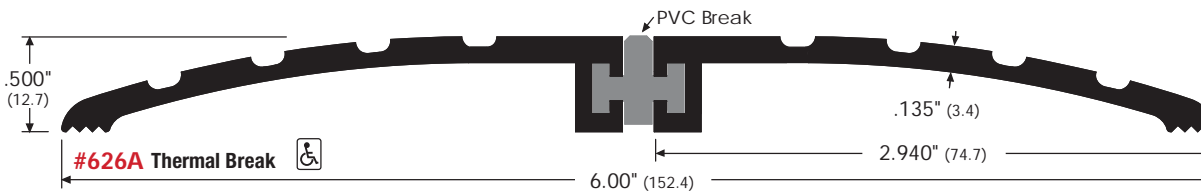
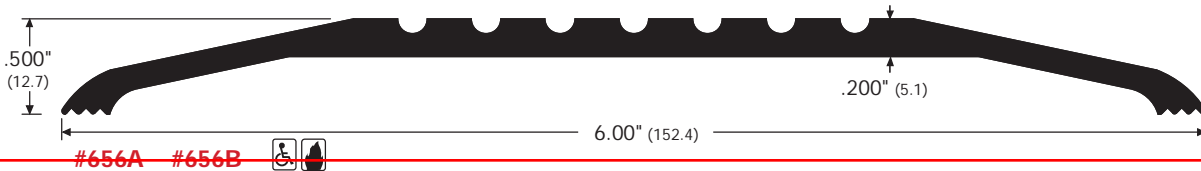
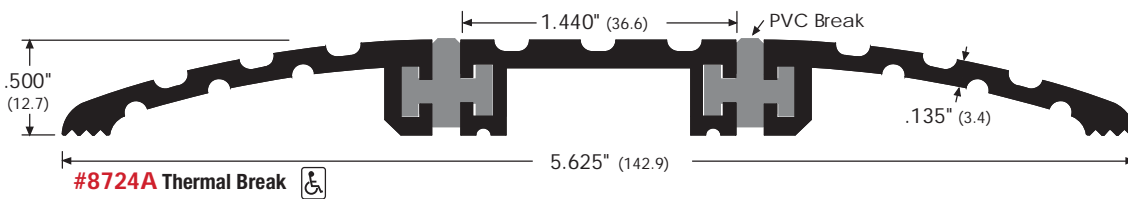
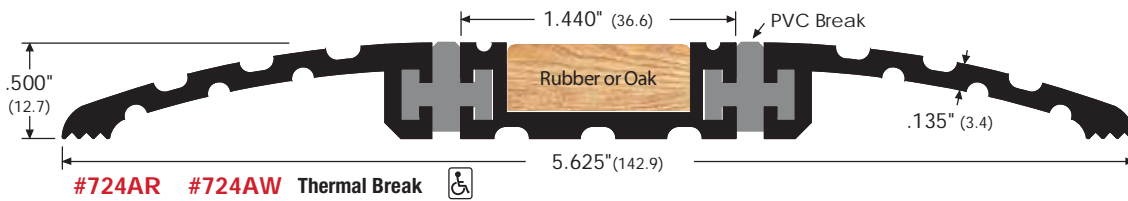
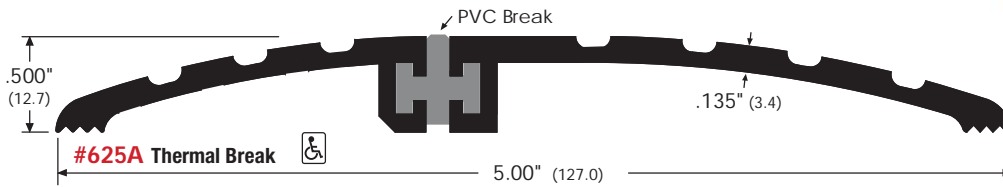
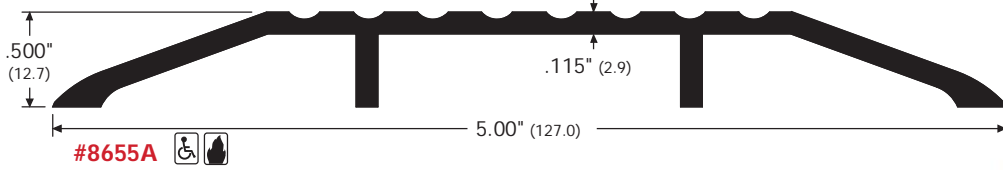
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**Date:**

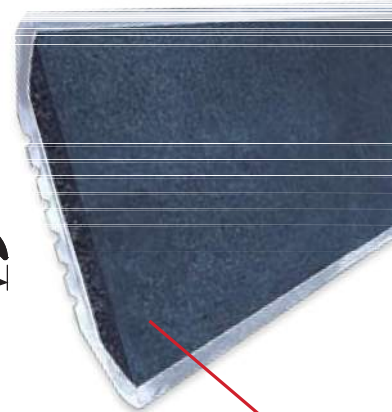
# Utility Thresholds



Note: A = Aluminum B = Bronze  
R = Rubber W = Oak  
Thresholds can be ordered with E (Epoxy Abrasive), EL (Epoxy Abrasive Photoluminescent) or V3 (Full Body Strength) options.



#655A-V3  
Full Body Strength

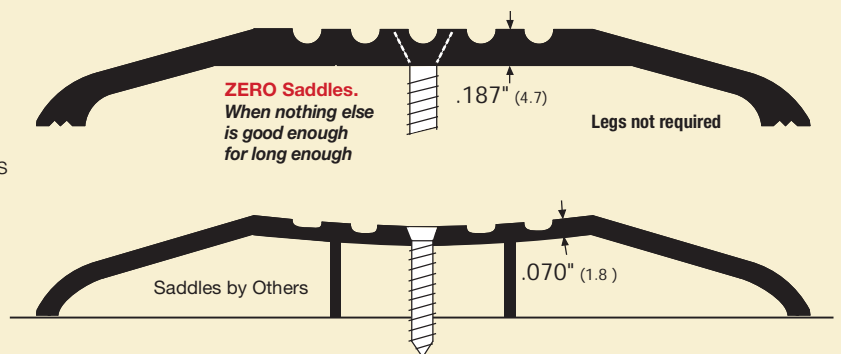


V3 (Full Body Strength option)

Thresholds

## Which would you rather walk on or install?

Both pass the ANSI standard load test, but the ZERO threshold also passes the test of time and weight. The heavier-gauge material in our thresholds allows you to drill and screw right through and into concrete. Lighter-gauge thresholds can buckle and often loosen because screws cannot be tightened fully. Be sure you get the best....specify the heavier gauge when you need thresholds.



## CX-33 ADVANCED LOGIC RELAY

## FEATURES

- 13 DIFFERENT OPERATING MODES, WITH SUB-MODES AND ADJUSTABLE TIMERS ON EACH RELAY, PROVIDE NEAR LIMITLESS APPLICATIONS.
- 5 INPUTS, INCLUDING A 'WET' INPUT, FOR MORE FLEXIBILITY. YOU CAN EASILY SEQUENCE FROM MULTIPLE POINTS, AND MAINTAIN & HOLD DIFFERENT OUTPUTS.
- LARGE 3 SEGMENT DISPLAY IS EASIER TO VIEW AND UNDERSTAND, THAN COMPETITIVE MODELS.
- 3 BUTTONS FOR MODE SELECTION, OFFER FASTER & EASIER PROGRAMMING.
- 'TRIED AND TRUE' POWER CIRCUITRY ENSURES OUTSTANDING FILTERING AND SURGE PROTECTION, COMBINED WITH SIMPLE 2 TERMINAL DESIGN.
- 3 HEAVY DUTY 3 AMP. FORM C OUTPUTS
- LARGER TERMINAL STRIPS ALLOW LARGER WIRE GAUGE, OR MORE CONDUCTORS TO BE CONNECTED.
- A CLEAR PLASTIC CASE PROVIDES BETTER PROTECTION OF THE CIRCUIT BOARD AND EASIER MOUNTING.
- LED'S FOR VISUAL RELAY CONFIRMATION

## DESCRIPTION

**Camden Door Controls CX-33 Advanced Logic Relay** is a 'state of the art' door controller designed for 'universal' operation in virtually any automatic door application. This compact unit is small enough to fit inside most door operator cases. It provides a large 3 segment LED and simple push buttons for the easiest programming, and supports illuminated signage in restroom applications. CX-33 is pre-programmed for interconnection with access control, fire alarm and telephone entry systems. CX-33 also leads the market with a range of exclusive operating features, including time duration in airlock applications and protection of automatic door operators when utilizing magnetic locks.

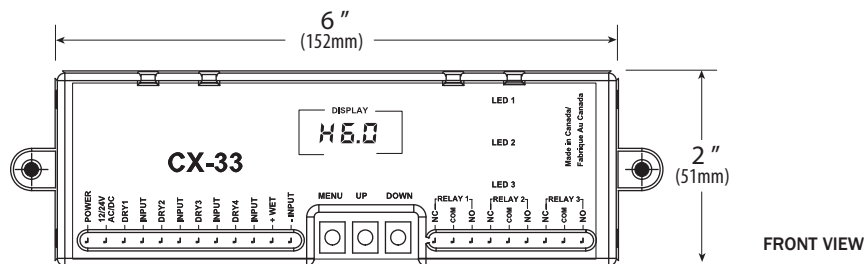
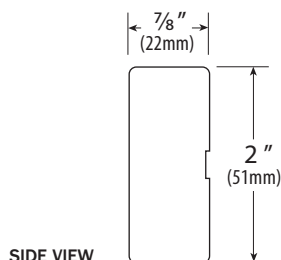
## APPLICATION

The flexibility of the CX-33 lends itself to an incredible variety of locking and and/or automatic door applications, such as sequencing applications using 2 or 3 doors. Also included are modes required for safety sensor installations. What is unique in the CX-33 is being able to combine these functions simultaneously with a switching network (make/break relay).

Another application for the CX-33 is single occupant restrooms equipped with low energy operators. Our 3 relay design now includes a dedicated output for illuminated signage.

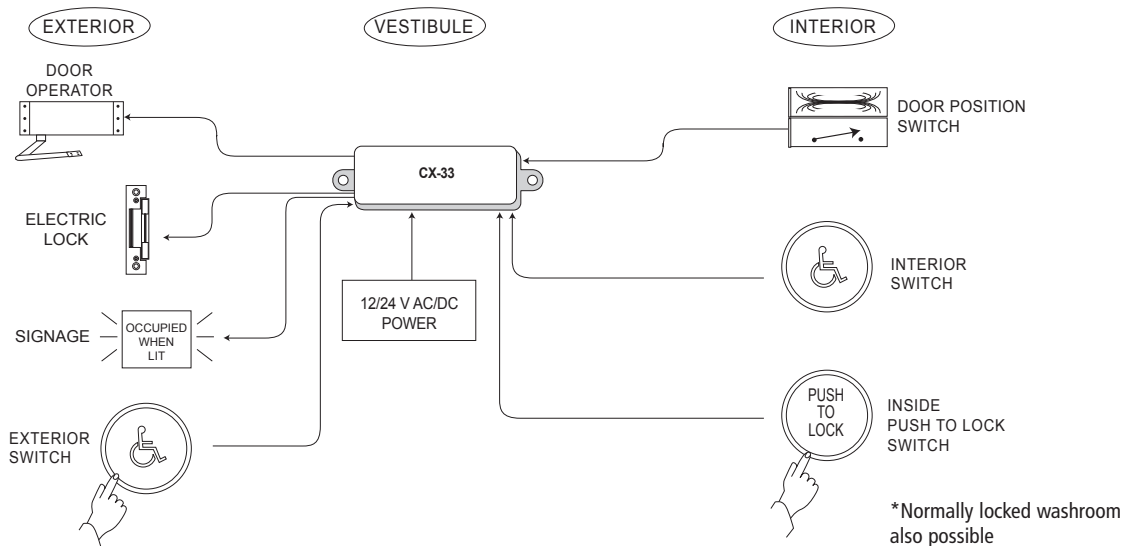
Other uses include smoke evac (fire door), 2-door timed or latching airlocks, and certain access control situations where an extended trigger input results in the lock retracting while enabling an exterior wall switch.

For apartment entry applications, a direct connection to the phone entry panel simplifies wiring, and eliminates the need for an isolating relay. This input unlocks the door, and energizes a vestibule convenience switch (if one is provided).

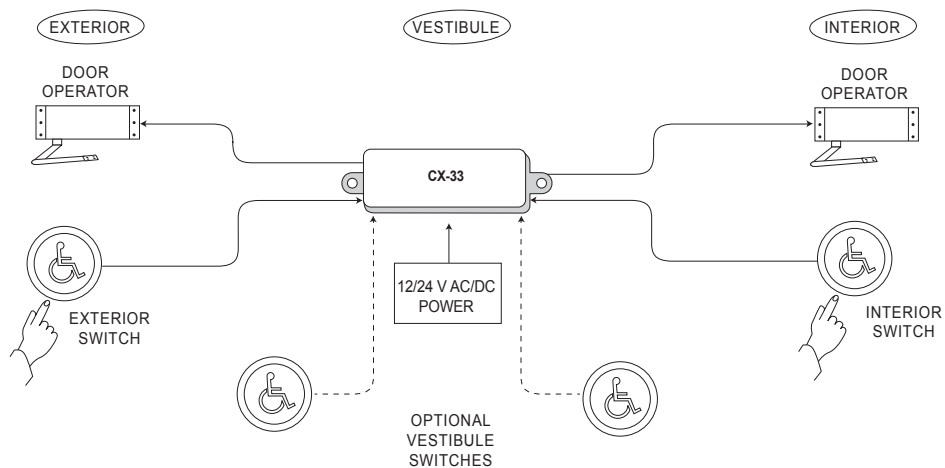


## TYPICAL APPLICATION

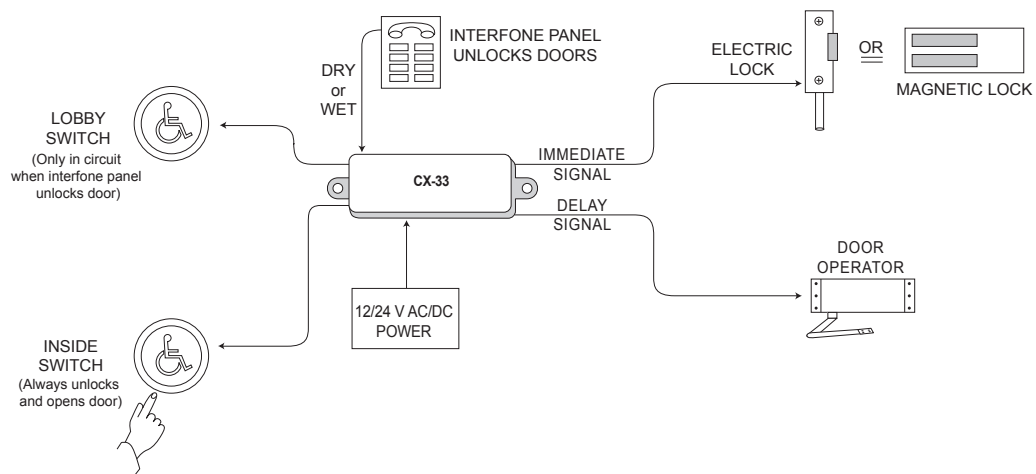
### NORMALLY UNLOCKED\* SINGLE USE RESTROOM



### BI-DIRECTIONAL DOOR SEQUENCER



### APARTMENT/CONDO APPLICATION



## OPERATING MODES

**Mixed-Mode Triggering:** Any input sequences all 3 relays. One input (wet, or dry) is for momentary devices, another input maintains relay 1 if the input is held, another input maintains relay 3 if the input is held, and another input latches relay 3 until re-activated again. Suitable for smoke evacuation, stairwell doors, or latching applications.

**2-Door Airlock:** Utilizing door position switches, this mode ensures only one door will be open at a time. 3 outputs allow one door to have an electric lock and an auto door operator. Each output hold time is adjustable from 1 – 50 seconds.

**Latching 2 Door Airlock:** This mode utilizes door position switches to ensure only one door can be open at one time. One switch activation will latch open (unlock) the door, and the second activation will allow the door to close (lock). The CX-33 is unique in the industry because it also provides the ability to add in an adjustable "walk-away" time. If the door input has been activated but the door has not been opened the relay will reset (re-lock). Both doors have their own respective adjustable timers. (If the time is set to zero, the feature is disabled).

**Bi-Directional Door Sequencer (with 4 inputs):** Two of the inputs sequence in each direction, and the remaining two open their respective door only. The 3 outputs provided by the CX-33 allow one door to have an electric lock and an auto door operator.

**Apartment / Condo Applications:** The CX-33 provides both Wet or Dry (momentary) connection to Telephone Entry System. This allows a door lock to be released remotely, which then "enables" a vestibule "courtesy switch" for as long as the door is unlocked. When the door re-locks, the "courtesy switch" is removed from the circuit. An input for the inside switch always unlocks and opens the door. Finally, input #4 turns on relay #3 for an adjustable time.

**Access Control Applications:** Similar to above but designed for continuous wet or dry inputs, where the access system or time clock would send a maintained signal to unlock the door all day. While the lock is open, the outside switch is put into the circuit to allow the door to open automatically. At the end of the day when the door is re-locked, the outside switch is removed from the circuit. At any time, the inside switch will unlock and open the door.

**Restroom Door (Normally Unlocked):** For single occupant barrier free restrooms desiring a convenient method of locking/unlocking, opening, and control of the automatic door opener. The CX-33 also provides a relay dedicated to "Occupied" & "Door Locked" signage.

**Restroom Door (Normally Locked):** Similar to above mode except designed for a normally locked restroom door. Outside access can be from a keypad, prox card or other suitable credential. Our exclusive design allows for a dedicated output relay solely for signage.

**Lock out Relay + Switching Network:** This mode combines, for the first time, a lintel mount safety sensor lock-out relay with a switching network (aka; make/break relay). The voltage sensing circuit can be utilized with motors/controls up to 120 volts AC/DC. The adjustable hold timer is then matched to door closing time. In addition, three inputs and two relays are provided for the switching network function.

**Low Energy Sensor Inhibitor:** Utilizing a door position switch input, this mode enables or disables a door mounted presence sensor. The sensor is put into the circuit when a wall switch is pressed, and is taken out of the circuit when the door is fully closed. In addition, two inputs and two relays are provided for the switching network function.

Continued on back page...

## Operating Modes Cont'd...

**Magnetic Lock Applications:** The CX-33 operates as a switching network specifically designed for doors with mag locks. A wall switch signals the relay, which unlocks, and opens the door for an adjustable time. Utilizing the door position switch, the relay will not re-apply power to the magnetic lock until the door is fully closed. The CX-33 also provides a normally open fire alarm input, which when activated, unlocks the door and disables the wall switch inputs. This mode is commonly used in hospital corridors.

**Fire Alarm Input (Normally Closed):** The CX-33 can also accept a normally closed fire alarm input, which when activated, unlocks the door and disables the wall switch inputs.

**Special Purpose Sequencer:** In this unique mode, Input #1 sequences relays #1 & #2 and input #2 sequences relays #1 & #3.

Any of the above modes can be programmed with a 1 – 10 second delay-on-activate feature on any input. When turned on, an input has to be held on for the pre-selected time period before the relay(s) will fire. This is useful for delayed egress applications, and photo-beam activated overhead doors where a nuisance delay is desired.

## SPECIFICATIONS

DIMENSIONS:	2"H x 6"W x 7/8"D (51mm x 152mm x 22mm)
MOUNTING:	(2) #6 SCREWS OR VELCRO
OPERATING VOLTAGE:	12 TO 24 VOLTS AC/DC
OPERATING TEMPERATURE:	-22F TO +185F -30C TO + 85C
CURRENT DRAW:	105 MA TYPICAL 320MA MAXIMUM
RESPONSE TIME:	.5 SECONDS
DISPLAY:	BLUE LED - 1 ALPHA/NUMBER AND 2 7-SEGMENTS
PROGRAMMING:	1 MENU, PLUS UP & DOWN BUTTONS
INPUTS:	(4) DRY & (1) WET
WET INPUT:	4.5 - 120 VOLTS AC/DC
RELAY OUTPUTS:	(3) FORM 'C' (SPDT)
CONTACT RATING:	3 AMPS @ 24VDC
ELECTRICAL LIFE:	100,000 OPERATIONS @ RATED CAPACITY
TIME DELAYS:	HOLD 1 TIMER: 0 - 50 SECONDS DELAY 1 TIMER: 0 - 15 SECONDS HOLD 2 TIMER: 0 - 50 SECONDS DELAY 2 TIMER: 0 - 60 SECONDS HOLD 3 TIMER: 0 - 50 SECONDS DELAY ON ACTIVATE: 0 - 10 SECONDS PROGRAM DISPLAY TIME: 10 SECONDS

IN THE EVENT OF AN EMERGENCY  
PUSH EMERGENCY BUTTON  
AND AUDIBLE AND VISUAL SIGNAL  
WILL ACTIVATE



CX-WEC10 KIT

## CX-WEC SERIES

### EMERGENCY CALL SYSTEM FOR UNIVERSAL & BARRIER FREE RESTROOMS

#### FEATURES

- A COMPLETE EQUIPMENT PACKAGE SPECIFICALLY DESIGNED TO MEET THE REQUIREMENTS OF ONTARIO REG. 368/13 AMENDMENT TO 2012 OBC FOR BARRIER FREE & UNIVERSAL RESTROOMS.
- DESIGNED FOR UNIVERSAL RESTROOMS WITH OR WITHOUT LOW ENERGY DOOR OPERATORS.
- FOR USE WITH CAMDEN CX-WC SERIES BARRIER FREE RESTROOM CONTROL KITS.
- AUDIBLE AND VISUAL ANNUNCIATION WITHIN RESTROOM DESIGNED TO CONFIRM A REQUEST FOR ASSISTANCE WITHOUT DISTURBING OCCUPANT. ANNUNCIATION IS ACTIVATED UNTIL MUSHROOM BUTTON IS PULLED 'OFF'.
- AUDIBLE AND VISUAL ANNUNCIATION OUTSIDE RESTROOM OF AN EMERGENCY CONDITION
- 3 YEAR WARRANTY

#### DESCRIPTION

**Camden Door Control CX-WEC Series** is an equipment package designed to meet the latest building code requirements for universal restrooms. The kit includes a CM-450R/12 maintained push/pull mushroom button, that activates/ deactivates a call for emergency assistance. Audible and visual annunciation of the request is provided inside the restroom by the CM-AF501SO single gang LED annunciator with sounder, and outside the restroom by the CM-AF140SO single gang dome light with sounder. The equipment package also includes a CM-SE21A 'IN THE EVENT OF AN EMERGENCY' sign, with 1" (25mm) lettering, as required by code.

#### APPLICATION

Camden Door Controls CX-WEC Series emergency call systems provide a complete equipment package for compliance with building code requirements. They are designed for universal restrooms with or without low energy door operators. The kit includes activation switch, audible and visual annunciation and signage.



# EMERGENCY CALL SYSTEM FOR UNIVERSAL & BARRIER FREE RESTROOMS

## ARCHITECTS/ENGINEERS SPECIFICATION

Universal restroom 'EMERGENCY ASSISTANCE' signal activation, annunciation and supporting signage shall be Camden Door Controls model CX-WEC10/CX-WEC11 universal restroom control kit.

The kit shall include:

**CM-450R/12** single gang mushroom push button, brushed stainless steel faceplate and red button, maintained push/pull operation with 'PRESS FOR EMERGENCY ASSISTANCE' permanently laser etched on the faceplate.

**CM-AF501SO** single gang LED annunciator with sounder, rated 85dB at 10cm, weather and vandal resistant construction, brushed stainless steel faceplate, with 'ASSISTANCE REQUESTED' message text, that is not legible unless the annunciator is energized.

**CM-AF140SO** single gang dome light with piezo sounder, rated 93dB at 1 meter, brushed stainless steel faceplate and 24V incandescent bulb. Text shall be; 'ASSISTANCE REQUIRED'.

**CM-SE21A** sign, to be located above the activation switch, 1/16" (1.6mm), 6"H x 10 5/8"W, (152mm x 270mm), fire rated expanded PVC white with, 25mm red lettering. Text shall be; 'IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE'.

### CM-450R/12

1 5/8" MUSHROOM PUSH BUTTON, PUSH/PULL, 'PRESS FOR EMERGENCY ASSISTANCE'

- PUSH/PULL MAINTAINED OPERATION
- SINGLE GANG STAINLESS STEEL FACEPLATE
- IMPACT RESISTANT BUTTON AND METAL COLLAR
- TEXT IS PERMANENTLY LASER ETCHED ON FACEPLATE
- HEAVY DUTY 10 AMP CONTACTS, N/O & N/C



CM-450R/12

### CM-AF140SO

SINGLE GANG DOME LIGHT, WITH SOUNDER, 'ASSISTANCE REQUIRED'

- 180° VISIBILITY WHEN ILLUMINATED
- LOUD 93 DB PIEZO SOUND ALERT
- NO TOOLS REQUIRED TO CHANGE INCANDESCENT BULB
- SINGLE GANG HEAVY DUTY BRUSHED STAINLESS STEEL FACEPLATE



CM-AF140SO

### CM-AF501SO

SINGLE GANG ANNUNCIATOR, WITH SOUNDER, 'ASSISTANCE REQUESTED'

- 'ASSISTANCE REQUESTED' MESSAGE ONLY LEGIBLE UPON ACTIVATION
- SUPER BRIGHT LED ILLUMINATION
- SINGLE GANG HEAVY DUTY BRUSHED STAINLESS STEEL FACEPLATE
- 85 DB PIEZO SOUND ALERT IS DESIGNED TO CONFIRM REQUEST WITHOUT DISTURBING OCCUPANT IN SMALL ENCLOSED SPACE



CM-AF501SO

### CM-SE21A

SIGNAGE FOR UNIVERSAL RESTROOMS

- COMPLIES WITH ONTARIO BUILDING CODE REQUIREMENTS
- WHITE, 1/16" (1.6mm) THICK PANEL, 6"H X 10 5/8"W, (152mm x 270mm)
- FIRE RATED EXPANDED PVC
- RED 1" (25mm) LETTERING
- EASILY MOUNTED TO WALL (GLUE OR SCREWS)

IN THE EVENT OF AN EMERGENCY  
PUSH EMERGENCY BUTTON  
AND AUDIBLE AND VISUAL SIGNAL  
WILL ACTIVATE

CM-SE21A

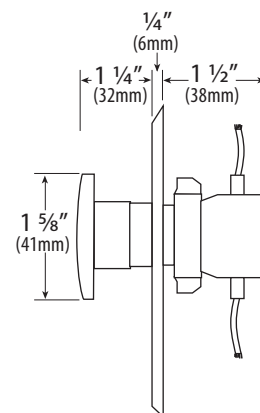
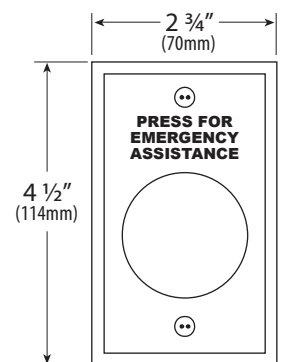
# EMERGENCY CALL SYSTEM FOR UNIVERSAL & BARRIER FREE RESTROOMS

## SPECIFICATION

### CM-450R/12

MUSHROOM PUSH BUTTON, PUSH/PULL, 'PRESS FOR EMERGENCY ASSISTANCE'

VOLTAGE:	12/24V AC/DC
CONTACT TYPE:	DPST
CONTACT RATING:	10 AMPS
TEMP RANGE:	-13°F TO 158°F (-25°C TO 75°C)
SWITCH LIFE:	100,000 CYCLES
DIMENSIONS:	4 1/2" H x 2 3/4" W x 1 3/4" D (114mm x 70mm x 44mm)
STD. FINISH:	STAINLESS STEEL

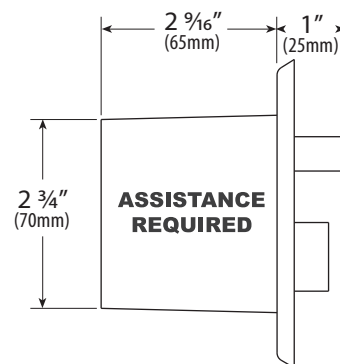
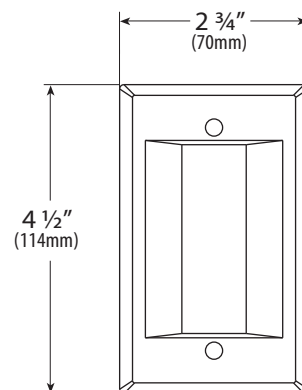


CM-450R/12

### CM-AF140SO

SINGLE GANG DOME LIGHT, WITH SOUNDER, 'ASSISTANCE REQUIRED'

VOLTAGE:	24 VDC
ILLUMINATION:	INCANDESCENT BULB
SOUNDER:	PIEZO, 93 DB MAX. AT 39.4" (1,000mm)
CURRENT RATING:	PIEZO, 20mA MAX.
TEMP RANG:	32°F - 176°F (0°C - 80°C)
DIMENSIONS:	4 1/2" H x 2 3/4" W x 1" D (114mm x 70mm x 25mm)
STD. FINISH:	STAINLESS STEEL

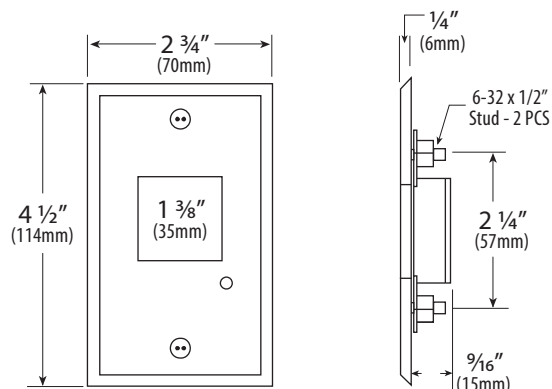


CM-AF140SO

### CM-AF501SO

SINGLE GANG ANNUNCIATOR, WITH SOUNDER, 'ASSISTANCE REQUESTED' (MESSAGE ONLY APPEARS UPON ACTIVATION)

VOLTAGE:	24 VDC
ILLUMINATION:	SUPER BRIGHT LEDS
SOUNDER:	PIEZO, 85 DB AT 4" (101mm)
CURRENT DRAW:	75mA, MAX.
TEMP RANG:	32°F - 176°F (0°C - 80°C)
DIMENSIONS:	4 1/2" H x 2 3/4" W x 9/16" D (114mm x 70mm x 15mm)
STD. FINISH:	STAINLESS STEEL



CM-AF501SO

## ORDERING INFORMATION

### EQUIPMENT PACKAGE

- CX-WEC10** UNIVERSAL RESTROOM KIT FOR USE WITHOUT AUTOMATIC DOOR OPERATOR, OR WITH CX-WC 10, 11, 12, 13 & 14 BARRIER-FREE RESTROOM CONTROL KIT.  
INCLUDES: **CM-450R/12** 'PRESS FOR EMERGENCY ASSISTANCE' MUSHROOM PUSH BUTTON, **CM-AF501SO** LED ANNUNCIATOR WITH SOUNDER, **CM-AF140SO** DOME LIGHT WITH SOUNDER AND **CM-SE21A** WHITE PANEL SIGN 6" X 10 5/8" (152MM x 270MM).  
ADD SUFFIX 'F' TO MODEL NUMBER FOR FRENCH LANGUAGE.
- CX-WEC11** UNIVERSAL RESTROOM KIT FOR USE WITH CX-WC 15 BARRIER-FREE RESTROOM CONTROL KIT.  
AS ABOVE WITHOUT CM-4050R/12 PUSH BUTTON.  
ADD SUFFIX 'F' TO MODEL NUMBER FOR FRENCH LANGUAGE.

### COMPONENTS

- CM-450R/12:** MUSHROOM PUSH BUTTON, SINGLE GANG, STAINLESS STEEL FACEPLATE, PUSH/PULL, 'PRESS FOR EMERGENCY ASSISTANCE'.  
ADD SUFFIX 'F' TO MODEL NUMBER FOR FRENCH LANGUAGE. "
- CM-AF140SO:** SINGLE GANG DOME LIGHT WITH SOUNDER, 'ASSISTANCE REQUIRED'.  
ADD SUFFIX 'F' TO MODEL NUMBER FOR FRENCH LANGUAGE.  
ADD SUFFIX 'BE' TO MODEL NUMBER FOR ENGLISH & FRENCH BILINGUAL LANGUAGE.
- CM-AF501SO:** SINGLE GANG LED ANNUNCIATOR WITH SOUNDER, 'ASSISTANCE REQUESTED'.  
ADD SUFFIX 'F' TO MODEL NUMBER FOR FRENCH LANGUAGE
- CM-SE21A:** ENGLISH, SOLID WHITE SIGN, 6"H X 10 5/8"W (152MM x 270MM).  
'IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE'

### OPTIONAL SIGNAGE

- CM-SE21B:** ENGLISH SIGN, WHITE SELF ADHESIVE VINYL, 6"H X 10 5/8"W (152MM x 270MM). ,  
'IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE'
- CM-SF20A:** FRENCH, SOLID WHITE SIGN, 6"H X 10 5/8"W (152mm x 270mm)  
'DANS LE CAS D'UNE URGENCE POUSSER LE BOUTON D'URGENCE POUR ACTIVER LE SIGNAL SONORE ET VISUEL'
- CM-SF20B:** FRENCH, WHITE VINYL SELF ADHESIVE SIGN, 6"H X 10 5/8"W (152mm x 270mm)  
'DANS LE CAS D'UNE URGENCE POUSSER LE BOUTON D'URGENCE POUR ACTIVER LE SIGNAL SONORE ET VISUEL'

### POWER OPTION

- CX-TRK24-50:** 24VAC, 40VA STANDARD MOUNT TRANSFORMER AND AC/DC RECTIFIER



Meets ANSI/BHMA 156.16, L03011.



Meets ANSI/BHMA 156.16, L03021



### SR64 Door Silencer

- For use on metal frames featuring pneumatic design that, once installed, forms an air pocket to absorb shock and reduce noise of door closing.
- Tamper-proof once installed on the frame.
- Proper installation also eliminates door rattle and provides constant tension for door latches or locks.

Packed in bags of 100.

Grey Available in bulk pack of 2500.

Each bag has an installation tool included.

#### Dimensions

Diameter: 1/2"

Thickness: 1/8"

#### Finishes

GRY, TAN

### SR65 Door Silencer

- For use on wood frames, also feature pneumatic design to cushion shock and absorb noise.
- To prevent removal, a small brad should be driven into stop strip and through stem of silencer, as shown in the detail.

Packed in bags of 100.

#### Dimensions

Height: 3/4"

Diameter: 3/8"

Thickness: 1/8"

#### Finishes

GRY

### SR66 Door Silencer

- Self Adhesive Rubber Silencers.
- Economical installation requires no drilling of frames.

Packed two sheets of 50 (100 minimum).

#### Dimensions

Diameter: 1/2"

Thickness: 1/8"

#### Finishes

BRN, GRY, WHT

Hinges & Pivots  
**A**

Pulls & Plates  
**B**

Flush Bolts & Coordinators  
**C**

Latches, Catches & Bolts  
**D**

**E23**  
Stops

Exterior Hardware  
**F**

Miscellaneous Hardware  
**G**

**SCHLAGE**

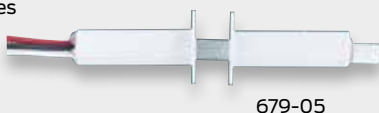
# Door position switches

## Overview

Door position switches are used to detect the open or closed status of an opening and then send this status to a control panel. They come in a variety of shapes and sizes and are designed for monitoring door positions, roof hatches, gates etc.

### Concealed SPDT magnetic switches

For wood doors and frames  
0.3 Amps @ 30 VDC



### Concealed/flush mount magnetic switches

For aluminum, wood and hollow metal doors 0.25 Amps @ 30 VDC  
UL Listed



For hollow metal doors and frames  
0.3 Amps @ 30 VDC



### Surface mount magnetic switches

For aluminum, wood and hollow metal doors 0.25 Amps @ 30 VDC  
UL Listed



For wood doors and metal frames  
0.3 Amps @ 30 VDC



Overhead door, floor mount magnetic switch

## Ordering information

- **674-OH** - Overhead door floor mount
- **679-05** - Wood door and frame
- **679-05HM** - Hollow metal door and frame
- **679-05WD** - Wood door and metal frame
- **7764** - Concealed/flush mount
- **7766** - Surface mount

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### About Allegion

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

*aptiQ* ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



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# PS902

## 2 amp power supply



Photo as shown includes optional board(s). Please contact your local sales office or visit the support section on our website for configuration assistance.

## Overview

The Schlage comprehensive line of power supplies and option boards was designed to address the changing needs of the access control market.

Installation is simplified by utilizing a flat mounting design and polarized locking connectors for option boards. This design eliminates the need for racks and side connectors. The flat mounting of the option boards also provides for easier access to the terminal blocks for connection of electrified devices (such as electrified strikes, electromagnetic locks, card readers, etc.).

Common to the line of PS900 Series power supplies is a constant output rating at both 12v and 24v settings, universal 120 VAC to 240 VAC input, and polarized option board connectors. New fire alarm interface board mounting allows outputs to be configured as switched (power cut) or unswitched (power continues) when signal is provided.

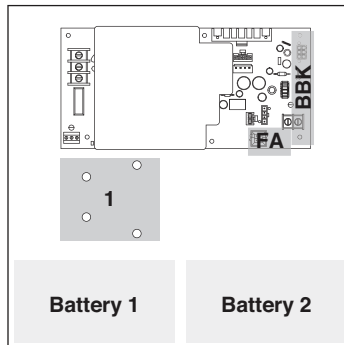
## Features and benefits

- 2A @ 12/24 VDC constant output, field selectable with jumper
- Provides low-voltage, Class 2, filtered and regulated power
- Universal 120-240 VAC, fused primary input
- Single polarized option board connector
- AC input and DC output monitoring circuit with LED indicators
- Externally visible AC input indicator with isolated SPDT contacts
- High-voltage protective cover for AC circuitry (not shown)
- Battery back-up board auto-selects voltage
- Optional Fire Alarm plug-in board available
- UL 294, ULC-S318, RoHS, and FCC Part 15 certified



## Configuration options

Available option board, fire alarm and battery backup connection locations:



### Exit device support

Von Duprin QEL	Up to 2 <sup>1</sup>
Von Duprin EL	None
Falcon EL	None

1. Requires the use of one 900-2RS option board

## PS902 power supply specifications

Specification	Description
Input voltage	120/240 VAC, 50/60 Hz, universal input
Output voltage	2A @ 12 or 24 VDC Field selectable with jumper Switching supply, 5% regulation, 240mVpp max ripple
Enclosure	Grey/baked enamel 14" x 12" x 4" (H x W x D) Eight 1/2" x 3/4" knockouts NEMA Grade 1 Hinged cover with lock down screws
Operating temperature	32° - 120°F (0° - 49°C)
Certifications	ANSI/UL 294 ULC-S318 RoHS FCC Part 15 Class 2
Battery backup (install on main board)	900-BB: Battery backup board only 900-BBK: Battery backup kit (backup board plus battery pack)
Available option boards	900-FA: Plug-in fire alarm (install on main or option board) 900-2RS: 2 Relay option board capable of individual or sequential operation for single and pair door applications 900-4R: 4 Relay option board 900-4RL: 4 Relay option board with integrated logic and individual or sequential operation capability for controlling security interlocks, auto operators, and time delay function 900-8F: Fused, 8 zone option board 900-8P: PTC, 8 zone option board
AC primary fuse size	3.15A, 250v, 5 x 20mm
Battery fuse size	7.5A 32v ATO blade style
DC output protection	Overload protection - current limited foldback circuit
Indicators	LED indicators: - AC input (visible on outside of enclosure) - DC output Isolated SPDT contacts to monitor AC power status
Weight (power supply)	Approx. 9.0 lbs
Weight (each battery)	4.0 lbs
AC input termination	3 position terminal block with protective cover Wire capacity: 10 AWG max.
DC output termination	2 position terminal block Wire capacity: 12 AWG max.
Option board connectors	1
Fire alarm board connector	Yes
Keylock	Optional
Accessories	900-BAT: Backup battery pack

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## About Allegion

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