# VON DUPRIN®

## DOOR CONTROL AND SECURITY HARDWARE

**Security & Safety**

# **VON DUPRIN**®  **Table of Contents**

# VON DUPRIN® Series 6000 Electric Strikes

Electric Strikes provide remote release of a locked door. They allow the door to be opened without retracting the latchbolt. This occurs by the releasing of the electric strike lip (sometimes called keeper or gate). When the door closes the beveled latchbolt rides over the lip and falls into the electric strike pocket.

## VON DUPRIN SERIES 6000 ELECTRIC STRIKES

Von Duprin is the leading manufacturer of premium, heavy-duty electric strikes known for their reliability, durability and security.

### Versatility

• Non-handed

• Furnished 24VDC standard with 12VDC and AC operation optional.
  16V solenoids available.

• Furnished fail secure (FSE) standard, with fail safe (FS) optional.

• Strike box is adjustable to compensate for any misalignment of the door or frame.

• Two piece plug connectors are furnished for ease of installation and for removal during strike servicing.

### Durability

Developed with Von Duprin's high standards and engineering expertise.

• Heavy-duty stainless steel construction.
• Tested to over 250,000 cycles.
• 1500 lbs. holding strength.
• 70 lbs. impact strength.

To assure the proper selection of an electric strike on new applications, lockset compatibility charts are shown on page 13. When using a lockset not listed or when retrofitting a strike to an existing application, consult Von Duprin for application assistance.

## OPTIONS

### AC Operation

SO12 and SO24 are rectifier kits to convert AC voltage to operate the DC solenoids. These kits are field installable and plug in-line to solenoid.

### DS and DS-LC — Dual Switch Monitoring (Factory Installed Only)

Dual switch monitoring option has two SPDT contacts, one switch monitors the tripper which is depressed when the latchbolt is inserted into the strike pocket. The second switch monitors the condition of the strike lip, open or closed and locked.

DS is standard, rated 24V, operating range from 2 ampere to 50 milliampere.

DS-LC low volt gold contact switches for use on applications associated with computer control and monitoring, rated 24V, operating range 50 milliampere or below.
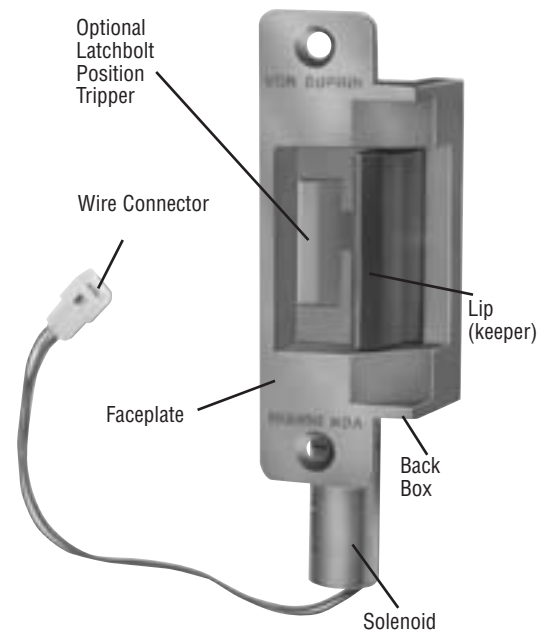
### Fail Secure — FSE

FSE — FAIL-SECURE electric strikes require power to be applied to unlock the strike lip. On loss of power, the strike is locked. Field convertible with parts.

### Fail Safe — FS

FS — FAIL-SAFE electric strikes require power to be applied to lock the strike lip. On loss of power, the strike is unlocked. Building codes prohibit the use of fail-safe strikes on labeled openings. Field convertible with parts.

### Entry Buzzer — EB

EB — Entry buzzer is available for use with fail-secure strikes. Installed in the frame and in parallel with the circuit, the buzzer will sound when the strike is unlocked.



Optional Latchbolt Position Tripper

Wire Connector

Lip (keeper)

Faceplate

Back Box

Solenoid

## UL LISTED

UL Listed Burglary-Resistant and Electric Strike for fire doors and frames. A label for single doors and B label for double doors. Strikes meet the requirements of ANSI 156.5, Grade 1, 1992.

## TO ORDER, SPECIFY

1. Model number.
2. FS (fail safe, when required).
3. DS or DS-LC (dual switch, when required).
4. Voltage 12VDC or 24VDC
   For 16V Solenoids order separately.
5. SO12 or SO24 (required when using AC)
6. Finish: US3, US4, US10, US10B, US32, US32D.
7. EB (Entry buzzer), FSE only (when required).

**Note:** Information listed is for use on new applications. On retrofit applications, modification of the frame preparation may be required, consult factory.

# VON DUPRIN® 6111, 6112, 6113 Electric Strikes

## 6111

Electric strike for use with rim exit devices on single doors or double doors with mullion applications (hollow metal, aluminum or wood). Designed to replace Von Duprin 3031. Specify if using with 55 rim devices.

## 6112

Electric strike for use with rim exit devices on single door applications (hollow metal, aluminum or wood). Designed to replace Folger Adam 310-4, minor frame prep modification required.

## 6113

Electric strike for use with rim exit devices on single door applications (hollow metal, aluminum or wood), ½˝ (13mm) stop or greater. Designed to replace Von Duprin 3011 and 3021. Specify if using with 55 rim devices.

## FEATURES
- Stainless Steel Construction
- Accepts ¾˝ (19mm) Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Horizontally Adjustable
- Plug Connectors

## OPTIONS
- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)

## 6111/6113 ELECTRIC STRIKE BLADE STOP SHIM  010055-XX

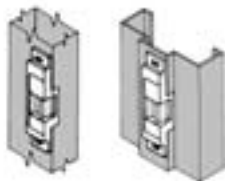Use on cased opening or blade stop frame. ½" (13mm) aluminum, not for fire door application.

**6111**

**6112**

**6113**

| SPECIFICATIONS | 12V | 24V |
|---|---|---|
| Resistance in Ohms±10% @ 70°F | 21 | 82 |
| Watt-seated @ 70°F | 7.5 | 8 |
| Amps-seated @ 70°F | .6 | .33 |
| Amps-inrush @ 70°F | .6 | .33 |

**UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59311 Listing applies to Von Duprin rim devices.**
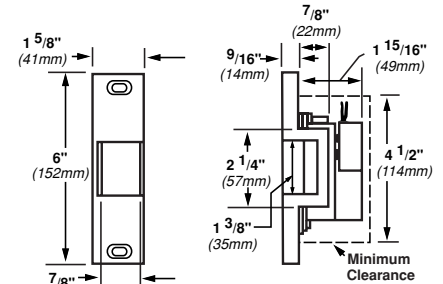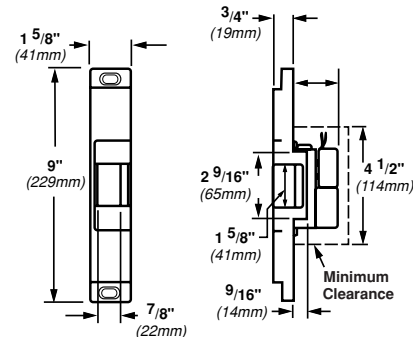
## DIMENSIONS AND CONFIGURATIONS

| 6111 | 6112 | 6113 |
|---|---|---|

6111: 1 5/8" (41mm), 6" (152mm), 7/8" (22mm), 1/2" (13mm), 1 5/8" (41mm), 2 3/16" (56mm), 1 3/8" (35mm), 4 1/2" (114mm), Minimum Clearance, 13/16" (21mm)

6112: 3/4" (19mm), 1 5/8" (41mm), 9" (229mm), 7/8" (22mm), 2 9/16" (65mm), 1 5/8" (41mm), 9/16" (14mm), 4 1/2" (114mm), Minimum Clearance

6113: 7/8" (22mm), 1 5/8" (41mm), 6" (152mm), 7/8" (22mm), 9/16" (14mm), 1 15/16" (49mm), 2 1/4" (57mm), 1 3/8" (35mm), 4 1/2" (114mm), Minimum Clearance
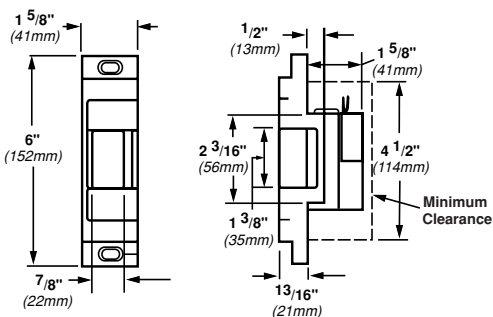
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# VON DUPRIN® 6114, 6121 Electric Strikes

## 6114
Electric strike for use with rim night latches having up to ¾″ (19mm) bolt throw. Replace Folger Adam 310-5.

## 6121
Electric strike for use with rim exit devices on double door applications, without mullion (hollow metal, aluminum or wood). Strike mounts on inactive leaf. Replace Folger Adam 310-4-100.

## FEATURES
• Stainless Steel Construction
• Accepts ¾″ (19mm) Throw Latchbolt
• Six Finishes
• Non-handed
• Fail Secure
• Horizontally Adjustable
• Plug Connectors

## OPTIONS
• FS (Fail Safe)
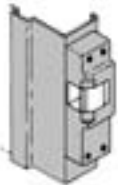• DS or DS-LC (Dual Monitor Switches)
• EB (Entry Buzzer)

6114

6121

**UL listed Burglary Resistant CVXY. ANSI E59371**

| SPECIFICATIONS | 12V | 24V |
|---|---|---|
| Resistance in Ohms±10% @ 70°F | 21 | 82 |
| Watt-seated @ 70°F | 7.5 | 8 |
| Amps-seated @ 70°F | .6 | .33 |
| Amps-inrush @ 70°F | .6 | .33 |

## DIMENSIONS AND CONFIGURATIONS
### 6114

### 6121

1 7/16" (37mm)
3 3/32" (79mm)
1 5/8" (41mm)
7 1/2" (191mm)

2 1/2" (64mm)
1/8" (22mm)
1 5/8" (41mm)
9 1/8" (232mm)

## 6210

Electric strike for use with mortise locks **without deadbolt** on single door, hollow metal frame applications and using ANSI prep at standard height. Strike pocket inserts are provided to accommodate different manufacturers deadlocking trigger locations.

## 6211

Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal frame applications. Designed to replace Von Duprin 3140 or Folger Adam 712.

## 6211AL

Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, aluminum frame applications. Designed to replace Folger Adam 722.

## 6211WF

Electric strike for use on new installations with mortise locks **without deadbolt** or cylindrical locks on single door, wood frame applications. Designed to replace Folger Adam 732.

### FEATURES
• Stainless Steel Construction
• Accepts ¾" *(19mm)* Throw Latchbolt
• Six Finishes
• Non-handed
• Fail Secure
• Horizontally Adjustable
• Plug Connectors

### OPTIONS
• FS (Fail Safe)
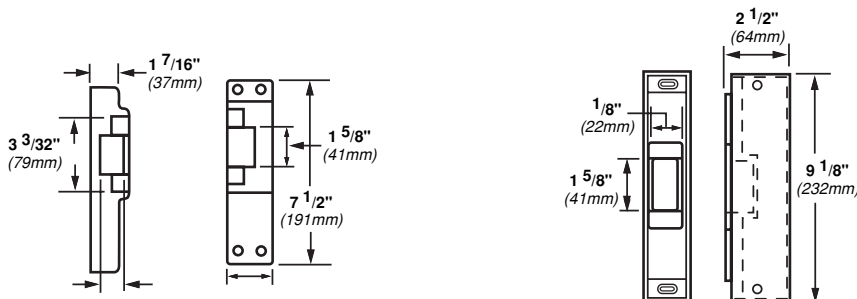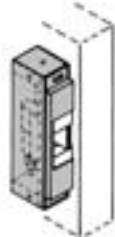• DS or DS-LC (Dual Monitor Switches)
• EB (Entry Buzzer)

**6210**

**6211**

**6211AL**

**6211WF**

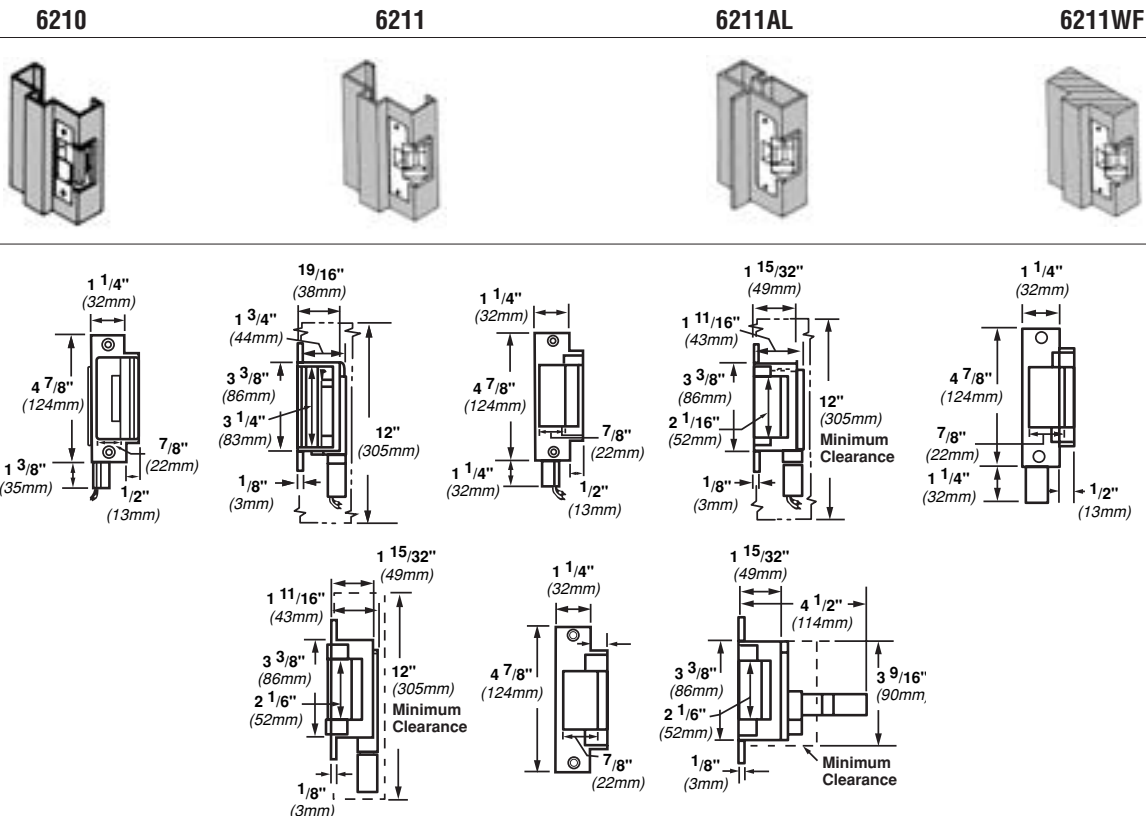**UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321**

| SPECIFICATIONS | 12V | 24V |
|---|---|---|
| Resistance in Ohms±10% @ 70°F | 21 | 82 |
| Watt-seated @ 70°F | 7.5 | 8 |
| Amps-seated @ 70°F | .6 | .33 |
| Amps-inrush @ 70°F | .6 | .33 |

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**DIMENSIONS AND CONFIGURATIONS**

| 6210 | 6211 | 6211AL | 6211WF |
|---|---|---|---|



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# VON DUPRIN® 6212, 6212WF Electric Strikes

## 6212

Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications. Fits modified ANSI 115.2 cutout. Designed to replace Von Duprin 3146.

## 6212WF

Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, wood frame applications.

**Note:** Strike pocket insert is furnished for use with Von Duprin 7500 mortise lock.

## FEATURES
• Stainless Steel Construction
• Accepts ¾″ (19mm) Throw Latchbolt
• Six Finishes
• Non-handed
• Fail Secure
• Horizontally Adjustable
• Plug Connectors

## OPTIONS
• FS (Fail Safe)
• DS or DS-LC (Dual Monitor Switches)
• EB (Entry Buzzer)

Strike mounting tabs are furnished for use with modified ANSI 115.2 cutout. Tab can be machine screw mounted or welded in place.
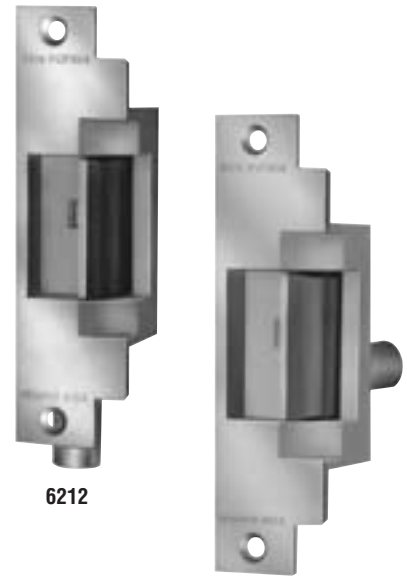


**6212**

**6212WF**

**UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321**

| SPECIFICATIONS | 12V | 24V |
|---|---|---|
| Resistance in Ohms±10% @ 70°F | 21 | 82 |
| Watt-seated @ 70°F | 7.5 | 8 |
| Amps-seated @ 70°F | .6 | .33 |
| Amps-inrush @ 70°F | .6 | .33 |

## DIMENSIONS AND CONFIGURATIONS

### 6212

### 6212WF
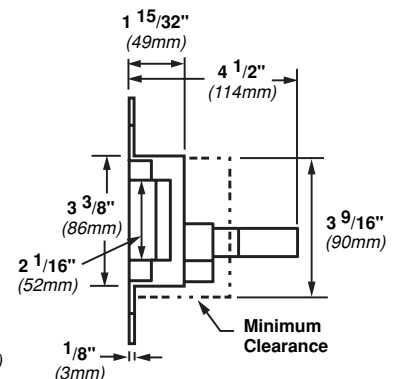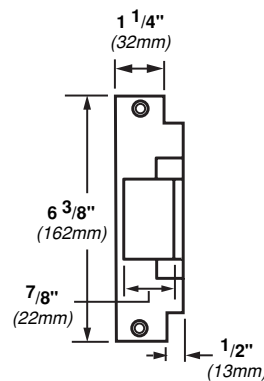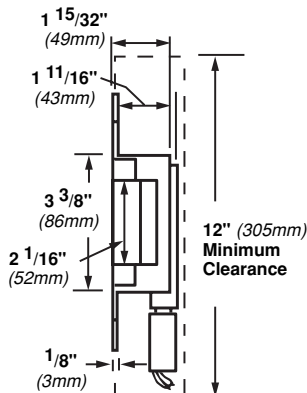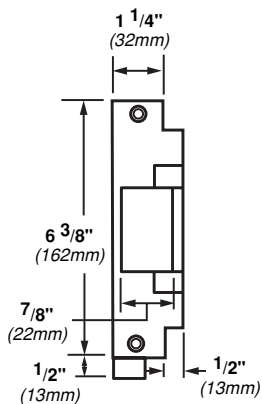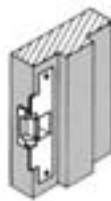
# VON DUPRIN. 6213, 6214, 6215, 6216 Electric Strikes

### 6213

Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications (includes wood frame on retrofit application). Designed to replace Von Duprin 3041, 3042, 3061 and 3062.

### 6214

Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications. Designed to replace Folger Adam 310-2¾.

### 6215

Electric strike for use with mortise locks **without deadbolt** or cylindrical locks on single door, hollow metal or aluminum frame applications. Designed to replace Folger Adam 310-2.

### 6216

Electric strike for use with mortise locks **with deadbolt**, 1″ (25mm) throw, on single door, hollow metal, aluminum or wood frame applications. Deadbolt must be manually operated. Designed to replace Folger Adam 310-3-1.

### FEATURES
• Stainless Steel Construction
• Accepts ¾″ (19mm) Throw Latchbolt
• Six Finishes
• Non-handed
• Fail Secure
• Horizontally Adjustable
• Plug Connectors

### OPTIONS
• FS (Fail Safe)
• DS or DS-LC (Dual Monitor Switches)
• EB (Entry Buzzer)
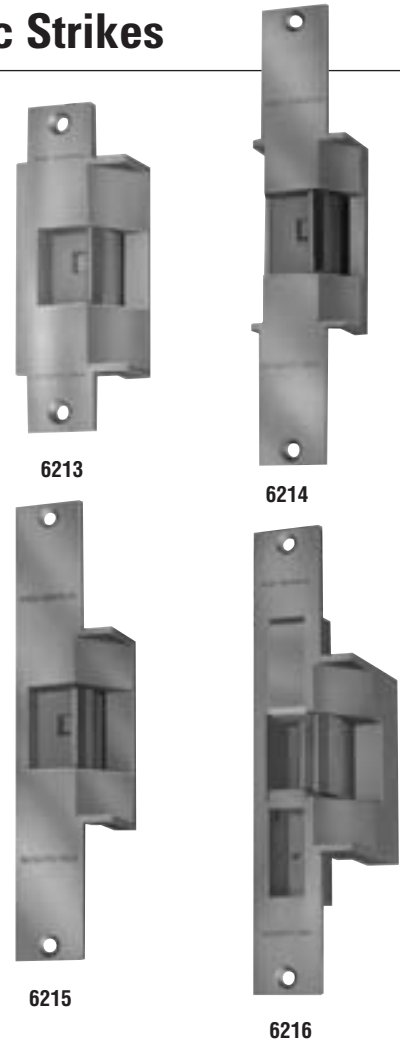
| SPECIFICATIONS | 12V | 24V |
|---|---|---|
| Resistance in Ohms±10% @ 70°F | 21 | 82 |
| Watt-seated @ 70°F | 7.5 | 8 |
| Amps-seated @ 70°F | .6 | .33 |
| Amps-inrush @ 70°F | .6 | .33 |

**UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321**



6213



6214



6215



6216

## DIMENSIONS AND CONFIGURATIONS

| 6213 | 6214 | 6215 | 6216 |
|---|---|---|---|



**6213**
2 3/16" (56mm)
6" (152mm)
1" (25mm)
1 1/4" (32mm)
1 3/8" (35mm)
9" (229mm)
1" (25mm)
1 5/8" (41mm)
1 1/16" (17mm)

**6214**
1 1/4" (32mm)
21/29" (64mm)
3 7/8" (98mm)
4 1/2" (114mm)
1 3/8" (35mm)
1/4" (6mm)
Minimum Clearance
1 1/2" (38mm)
1 5/8" (41mm)
3 3/4" (95mm)
12" (305mm) Minimum Clearance
5/32" (4mm)

**6215**
1 3/8" (35mm)
9" (229mm)
1" (25mm)
1 1/16" (17mm)
1 3/8" (35mm)
1" (25mm)
5 3/8" (137mm)
9" (229mm)
1 5/8" (41mm)
3/4" (19mm)

**6216**
2" (51mm)
1 5/8" (41mm)
3 3/4" (95mm)
1 5/8" (41mm)
12" (305mm) Minimum Clearance
5/32" (4mm)
35/32" (80mm)
2 7/8" (73mm)
3 3/4" (95mm)
6 1/8" (156mm)
5/32" (4mm)
1 5/8" (41mm)
Minimum Clearance

# VON DUPRIN® 6221, 6222, 6225 Electric Strikes

## 6221
Open back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾˝ *(44mm)* thick double door (hollow metal, aluminum or wood) applications. 4¾˝ *(120mm)* minimum stile required. For a concealed vertical rod and mortise device combination, specify "A" backbox. Designed to replace Von Duprin 3071 and 3072.

## 6222
Open back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾˝ *(44mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-23/4 OB.

## 6225
Open back electric strike for use with mortise locks without deadbolt or cylindrical locks on 1¾˝ *(44mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2 OB.

## FEATURES
• Stainless Steel Construction
• Accepts ¾˝ *(19mm)* Throw Latchbolt
• Six Finishes
• Non-handed
• Fail Secure
• Plug Connectors

## OPTIONS
• FS (Fail Safe)
• EB (Entry Buzzer)

Dual Monitor Switches (DS or DS-LC) are not available on open back strikes.

**6221**

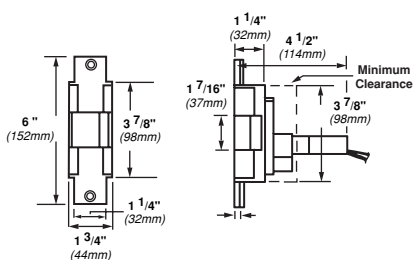**6222**

**UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321**

**6225**

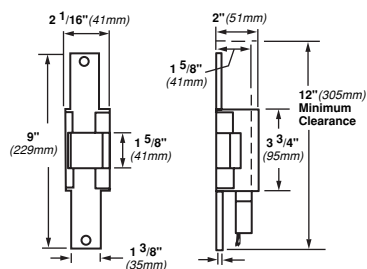| SPECIFICATIONS | 12V | 24V |
|---|---|---|
| Resistance in Ohms±10% @ 70°F | 21 | 82 |
| Watt-seated @ 70°F | 7.5 | 8 |
| Amps-seated @ 70°F | .6 | .33 |
| Amps-inrush @ 70°F | .6 | .33 |

## DIMENSIONS AND CONFIGURATIONS

### 6221



### 6222



### 6225
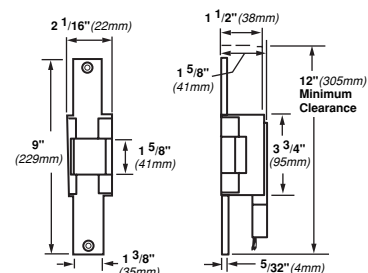
## 6223

Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* thick double door (hollow metal, aluminum or wood) applications. 4¾″ *(120mm)* minimum stile required. For a concealed vertical rod and mortise device combination, specify "A" backbox. Designed to replace Von Duprin 3091 and 3092.

## 6224

Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2¾. Not for wood applications.

## 6224AL

Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick aluminum double door applications. Designed to replace Folger Adam 310-2RF.

## 6226

Closed back electric strike for use with mortise locks **without deadbolt** or cylindrical locks on 1¾″ *(44mm)* or 2¼″ *(57mm)* thick double door (hollow metal or aluminum) applications. Designed to replace Folger Adam 310-2. Not for wood applications.

### FEATURES

- Stainless Steel Construction
- Accepts ¾″ *(19mm)* Throw Latchbolt
- Six Finishes
- Non-handed
- Fail Secure
- Plug Connectors

### OPTIONS

- FS (Fail Safe)
- DS or DS-LC (Dual Monitor Switches)
- EB (Entry Buzzer)

| SPECIFICATIONS | 12V | 24V |
|---|---|---|
| Resistance in Ohms±10% @ 70°F | 21 | 82 |
| Watt-seated @ 70°F | 7.5 | 8 |
| Amps-seated @ 70°F | .6 | .33 |
| Amps-inrush @ 70°F | .6 | .33 |

**6223**

**6224**

**6224AL**

**6226**

UL listed Burglary Resistant CVXY and Electric Strike for fire doors or frames GXAY (fail secure only). ANSI E59321

| 6223 | 6224 | 6224AL | 6226 |
|---|---|---|---|
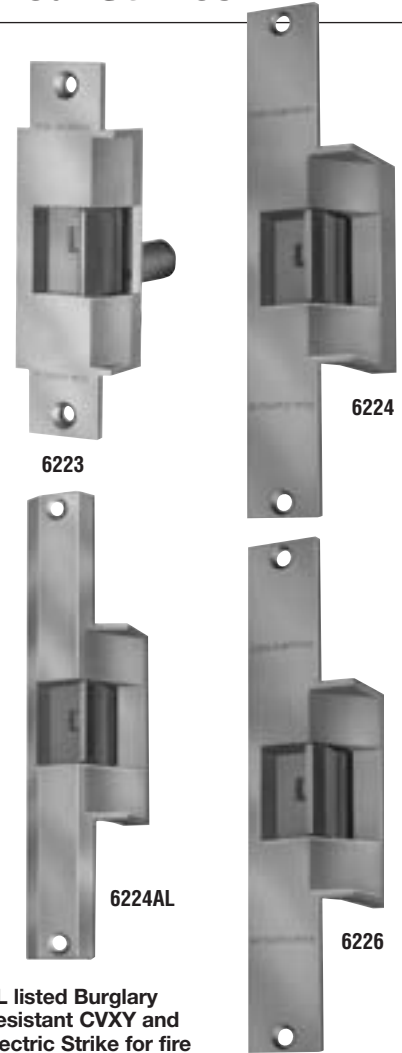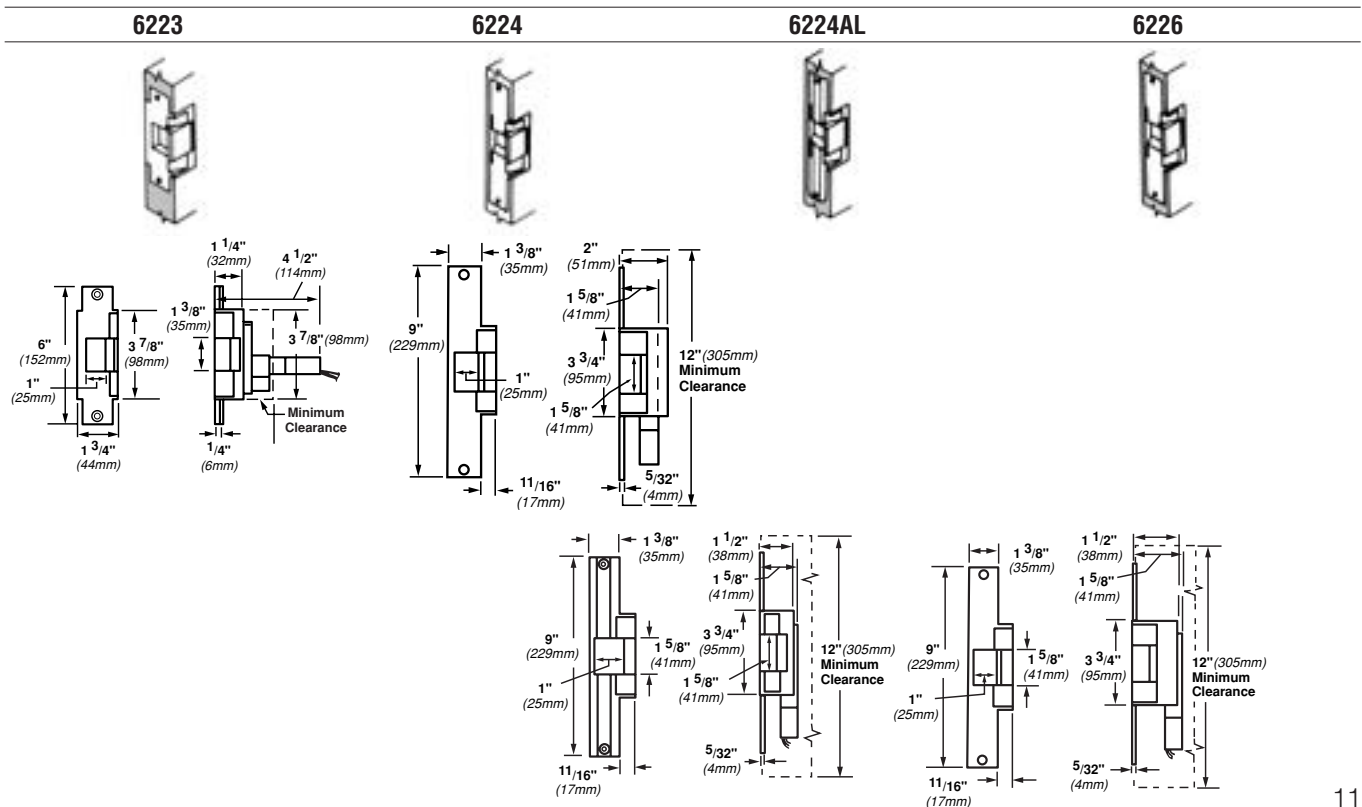
# VON DUPRIN® 5100 Electric Strike

## 5100

The Von Duprin 5100 Electric Strike has been designed and manufactured to meet the needs of locksmiths and security professionals. This easy-to-install electric strike was created for medium duty applications, specifically to control traffic flow through interior and exterior openings in retail and commercial environments. And because it's the Von Duprin brand, you know that you can depend on the product quality and performance.

### VERSATILITY

Fewer products to inventory and more value for your money.

• Three faceplates included for hollow metal, wood or aluminum frames.
• Internal 12/24 dual-voltage solenoid.
• Adjustable keeper.
• Fail-safe/fail-secure selectability.

### CONVENIENCE

The right parts in the box means getting the job done right the first time, every time.

• Reduce labor expense.
• Fewer return trips to the job site.

### DURABILITY

Developed with Von Duprin's high standards and engineering expertise.

• Heavy-duty construction.
• Tamper resistant design.
• Tested to over one million cycles.
• 1000 lbs. holding strength.
• 70 lbs. impact strength.

### FEATURES

• Three faceplates standard in every box
• 12/24 dual-voltage
• Fail-safe/fail-secure
• Adjustable keeper
• Internal solenoid
• Non-handed
• Backbox depth of $1\frac{11}{16}$"
• Keeper depth of ½"
• Mounting tabs
• Retrofit kit
• Illustrated installation instructions
• Tamper resistant
• 1 year electrical product warranty
• Continuous duty operation
• Heavy duty construction

### APPLICATIONS

• Cylindrical locks
• Aluminum dead latch
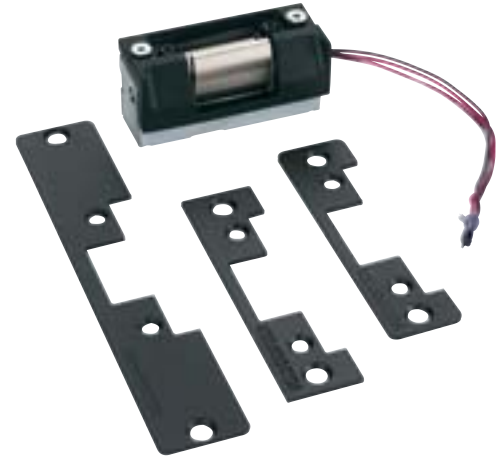
| SPECIFICATIONS | 12V | 24V |
|---|---|---|
| Resistance in Ohms±10% @ 70°F | 32 | 128 |
| Power (watts) | 4.5 | 4.5 |
| Current (amps) | .38 | .19 |

All specs ± 10% @ 77°F/25°C

ANSI/BHMA 156.5 Grade 1 (1992)

UL 1034 Burglary Listing
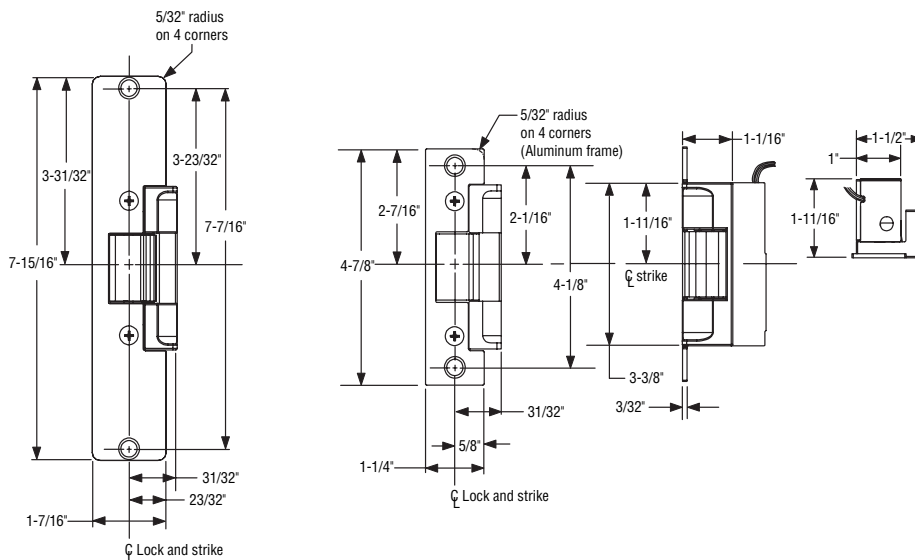
**Chart 1**

### RIM EXIT DEVICE COMPATIBILITY
### 6111, 6112, 6113 & 6121 Strikes

| Manufacturer | Device (panic/fire) |
|---|---|
| Von Duprin | 22, 33A, 35A, *55, 88, 98, 99 |
| Magnokrom | Rim |
| Monarch** | 11-R, XX-R, 18-R, 19-R |
| Precision | 810, 1100*** |
| Sargent | 2800, 6500, 6800, 8500, 8800, 9500, 9800***, 9898 |
| Yale | 1500, 7000, 7200 |

\* Strike must be modified, specify when using with a 55 rim device.
\*\* Deadlocking feature will not properly function, consult factory.
\*\*\*Panic only.

**Chart 2**

### MORTISE LOCK COMPATIBILITY
### 6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 & 6226 Strikes

| Manufacturer | Mortise # |
|---|---|
| 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 |

**Note: Von Duprin cannot guarantee compatibility as other manufacturer's designs may change without notice.**
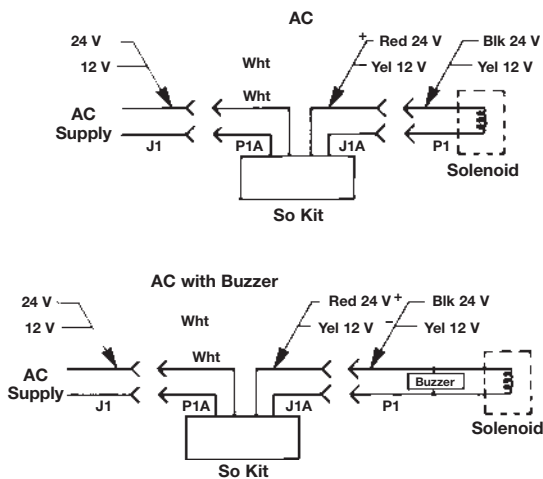
**Chart 3**

### CYLINDRICAL LOCK COMPATIBILITY
### 6211, 6211AL, 6211WF, 6212, 6213, 6214, 6215, 6221, 6222, 6223, 6224, 6224AL, 6225 & 6226 Strikes

| Manufacturer | Cylindrical |
|---|---|
| Baldwin | ½″ – ¾″ (13mm – 19mm) |
| Best | ⅜″ – ¾″ (10mm – 19mm) |
| Corbin | ½″ – ¾″ (13mm – 19mm) |
| Falcon | ½″ – ¾″ (13mm – 19mm) |
| Russwin | ½″ – ¾″ (13mm – 19mm) |
| Sargent | ½″ – ¾″ (13mm – 19mm) |
| Schlage | ⅜″ – ¾″ (10mm – 19mm) |
| Yale | ½″ – ¾″ (13mm – 19mm) |

**Note:** Signalling may not function when using 3⁄8" (10mm) throw bolt. Deadlocking cannot be guaranteed with all locks.

**Chart 4**

### MORTISE LOCK AND 6210 COMPATIBILITY

| | |
|---|---|
| Von Duprin | 7500 |
| Best | 30H |
| Corbin/Russwin | ML2200, 5000, 9000 |
| Falcon | M100, M200, M300, M400, M500, M600 |
| Sargent | 7700, 8100 (Not 7800/8200) |
| Schlage | L9000 |
| Yale | 8700 |



AC

AC with Buzzer

So Kit

DC

DC with Buzzer
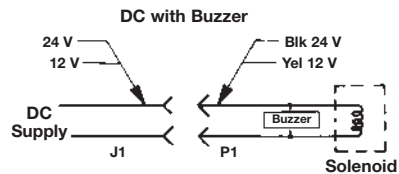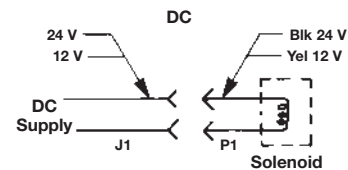
**Optional DS (FSE Shown)**
**Wiring shown with strike locked and monitor tripper depressed**
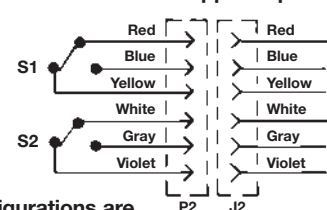
**Different wiring configurations are used depending on Backbox type and FS or FSE.**

**CROSS REFERENCE**

| Name | Strike/Lock Mounting | # Doors | Frame Material (SGL Dr) Door Material (DBL Dr) | Faceplate Length | Drop In Replaces Von Duprin: | Drop In Replaces Folger Adam: |
|------|----------------------|---------|-----------------------------------------------|------------------|------------------------------|-------------------------------|
| 6111 | Rim Device | Single[1] | All | 6˝ | 3031 | |
| 6112 | Rim Device | Single | All | 9˝ | | 310-4[4] |
| 6113 | Rim Device | Single | All | 6˝ | 3011, 3021 | |
| 6114 | Rim Nightlatch | Single | All | 7˝ | | 310-5[5] |
| 6121 | Rim Device | Double-Closed Back | All | 9˝ | | 310-4-100[5] |
| 6210 | Mortise | Single | HM/Alu | 4⅞˝ | | |
| 6211 | Mortise or Cylindrical | Single | HM/Alu | 4⅞˝ | 3140 | 712 |
| 6211AL | Mortise or Cylindrical | Single | Aluminum | 4⅞˝ | | 722 |
| 6211WF | Mortise or Cylindrical | Single | Wood | 4⅞˝ | | 732[6] |
| 6212 | Mortise or Cylindrical | Single | HM/Alu | 6⅜˝ | 3146 | |
| 6212WF | Mortise or Cylindrical | Single | Wood | 6⅜˝ | | |
| 6213 | Mortise or Cylindrical | Single | All[2] | 6˝ | 3041, 42, 61, 62 | |
| 6214 | Mortise or Cylindrical | Single | All[3] | 9˝ | | 310-2 3/4 |
| 6215 | Mortise or Cylindrical | Single | All[3] | 9˝ | | 310-2 |
| 6216 | Mortise and Deadbolt | Single | HM/Alu | 9˝ | | 310-3-1 |
| 6221 | Mortise or Cylindrical | Double-Open Back | All | 6˝ | 3071, 72 | |
| 6222 | Mortise or Cylindrical | Double-Open Back | HM/Alu | 9˝ | | 310-2 3/4 OB |
| 6223 | Mortise or Cylindrical | Double-Closed Back | All | 6˝ | 3091, 3092 | |
| 6224 | Mortise or Cylindrical | Double-Closed Back | HM/Alu | 9˝ | | 310-2 3/4 |
| 6224AL | Mortise or Cylindrical | Double-Closed Back | Aluminum | 9˝ | | 310-2 RF |
| 6225 | Mortise or Cylindrical | Double-Open Back | HM/Alu | 9˝ | | 310-2 OB |
| 6226 | Mortise or Cylindrical | Double-Closed Back | HM/Alu | 9˝ | | 310-2 |

[1]Includes double door with mullion.
[2]Recommended on wood frames only if drop in replacement is needed for 3041, 42, 61, 62 on wood frames. Otherwise use 6211WF.
[3]Recommended on wood frames only if drop in replacement is needed for 310-2 3/4, 310-2 on wood frames. Otherwise use 6211WF.
[4]Strike lip area cutout is slightly larger than Folger Adam.
[5]Surface applied strike. Mounting hole locations different from Folger Adam.
[6]Wood frame horizontal solenoid location differs from Folger Adam. May require frame prep modification when retrofitting.

**FINISHES**

| US Number | BHMA Number | Description | Von Duprin Number |
|-----------|-------------|-------------|-------------------|
| US3 | — | Plated Polished Brass on Stainless Steel | 85 |
| US4 | — | Plated Dull Brass on Stainless Steel | 84 |
| US10 | 639 | Plated Dull Bronze on Stainless Steel | 06 |
| US10B | 640 | Plated Dark Bronze on Stainless Steel | 86 |
| US32 | 629 | Stainless Steel, Polished | 31 |
| US32D | 630 | Stainless Steel, Satin | 32 |

**WIRE SIZE SELECTION**

| Current requirement at 24VDC | | | | |
|------------------------------|------|------|------|------|
| Length of wire run (in feet) | 0-.5 Amp | .5-1 Amp | 1-2 Amp | 2-3 Amp |
| 0-100 | 18 | 18 | 18 | 18 |
| 100-200 | 18 | 18 | 18 | 16 |
| 200-300 | 18 | 18 | 16 | 14 |
| 300-450 | 18 | 16 | 14 | 12 |
| 450-600 | 18 | 16 | 12 | NR |
| 600-900 | 16 | 14 | NR | NR |
| 900-1200 | 14 | 12 | NR | NR |

NR — Not recommended

# VON DUPRIN® E996L Electrified Breakaway™ Lever Trim

**E996L** electrified Breakaway lever trim provides remote locking and unlocking capabilities while incorporating the patented Breakaway trim design.

The 24VDC solenoid can be energized from a distant controller, thus allowing access control of the opening. The control of stairwells in high-rise buildings is a common application for this trim.

When electrically unlocked the unit operates as a normal lever trim. When electrically locked, the lever feels locked, but when more than 35 pounds of torque pressure is applied, the Breakaway lever feature engages.

The E996L is provided standard in a fail safe (FS) condition, but can be field converted to a fail secure (FSE) where allowed. The trim can be ordered with a device, added to an existing 98/99 series device application, or a conversion kit can be added to an existing 996L Breakaway lever trim. On new construction applications, the E996L trim will require less door prep.

The E996L is available with a blank escutcheon (BE) function, or with a cylinder for night latch function.

The E996L electrified trim replaces the current "E" electric feature on 98/99 series rim devices. Consult factory for requirements.

**To Order, Specify:**

1. Use "E" prefix, example E996L.
   When ordering with device specify trim series with "E" prefix, example 9927L-BE 3´ US26D E996.

2. Device type, R/V (rim/surface or concealed vertical rod) or M (mortise).

3. RHR is furnished standard if not specified.
   Field reversible.

4. Lever style (06 lever is furnished standard).

5. Finish: US3, US4, US10, US10B, SP313, US26, US26D, SPBLK, US15

| SPECIFICATIONS |
| --- |
| Solenoid – Continuous Duty 24VDC |
| Solenoid Draw – 0.22 amp |

**E996L ELECTRICAL WIRING**
- Power input for E996L is 24VDC
- Two wires on trim are non-polarized (18 AWG minimum)



Power Wire Runs Through Exit Device Body

Power Supply PS873 or PS861

24 VDC output

E996L Trim

Control Switch (normally closed)

Power Transfer (EPT2 shown)

## LEVER DESIGN OPTIONS



**#01**

**#02**

**#03**

**#05**

**#06 Standard**

**#07**

**#12 Handed**

**#16**

**#17**

**#18**
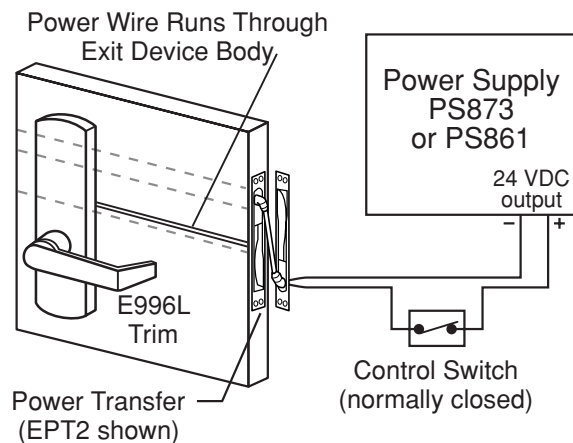
# VON DUPRIN® Electric Latch Retraction EL

**EL** feature provides remote latch retraction ability to exit devices. The feature is available with 33A, 35A, 94, 95, 98 and 99 series rim, mortise and vertical rod devices. A control station operator can flip a switch to retract the latch bolt and immediately change an exit only or latched door to push-pull operation. A powerful, continuous duty solenoid retracts the latch bolt for momentary unlocking, or for extended periods of time, in lieu of manual dogging.

There are three dogging options available with the EL feature.

• EL - electric latch retraction with no manual dogging.

• HD-EL – electric latch retraction with manual hex key dogging.

• SD-EL – electric latch retraction with special center case cylinder dogging (not available on the 33A/35A series or 98/9975 devices).

EL devices are also useful with automatic door operators, and may be applied to fire-rated devices when under the control of an **automatic fire alarm system**.

UL approved for Class II circuit applications.

The PS873 with the 871-2 is the minimum option card required. Other option cards are available for other functions, see PS873 power supply on page 28 for additional information.

The EL feature does not include the power transfer from door to frame or the power supply or control operator. Refer to page 29 for the EPT-2 electric power transfer, and to page 28 for the PS-873 power supply.

See page 34 for wire size selection.

Retro-fit kits available to add the EL feature to non-EL devices.

**To Order, Specify:**

Prefix  EL      standard
        HD-EL  hex key dogging
        SD-EL   special center case dogging

Example HD-EL99L

Solenoid Resistance - New Style 1987 and after
**GRN-YEL 1.2-2 OHMS**
**GRN-ORN 16-150 OHMS**
**GRN-ORN 45-55 OHMS (Inpact 94/95 only)**

**EL33A/EL35A**

**EL98/EL99**

**EL94/EL95**

**Rim device shown — Refer to 33A/35A, 98/99 or 94/95 series catalog for complete product information, mounting styles, outside trim, finishes, etc.**

Minimum Door Width:

3´ (914mm) device – 2´6˝ (762mm)
4´ (1219mm) device – 3´0˝ (914mm)

Actual device length will vary depending on device type, strike, stop height, single or double door, etc.

**UL listed FVSR SA163 Panic Hardware and/or GXHX R4504(N) Fire Exit Hardware. Consult device catalog for fire rated models.**
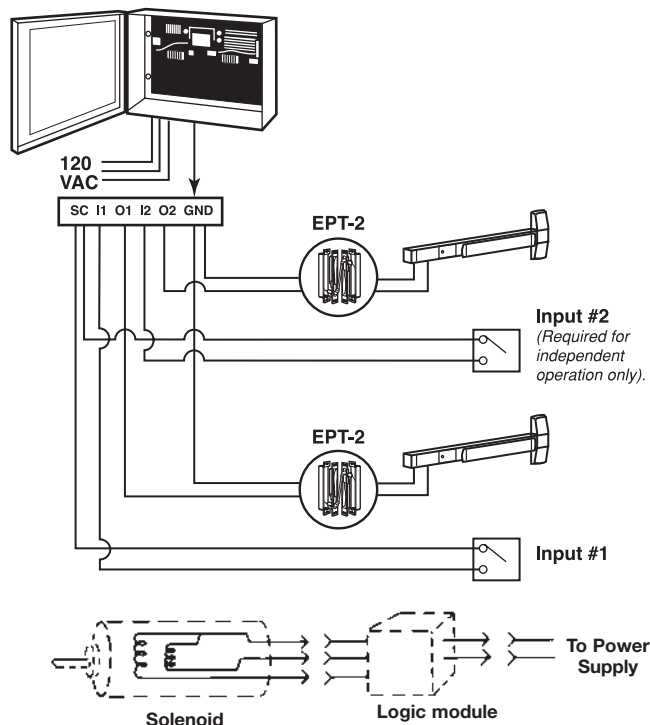
**Supplied with 3´ (914mm) Cable at the hinge side of door.**

**Popular EL Application**
**Power Supply PS873-2**
**Electric Power Transfer EPT-2 or EPT-10**

## SPECIFICATIONS

| Solenoid | |
|---|---|
| Continuous Duty | 24VDC |
| Current Inrush (300 milliseconds) | 16 amperes |
| Current Holding (33A/35A + 98/99) | 0.3 ampere |
| Current Holding (Inpact) | 0.5 ampere |

120 VAC

SC  I1  O1  I2  O2  GND

EPT-2

Input #2
*(Required for independent operation only).*

EPT-2

Input #1

To Power Supply

Solenoid          Logic module

**RX** (request to exit) signal switch feature is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar. **See Low Current option for computer operated system applications.**

**RX2** (double request to exit) features 2 RX switches.

**LX** (latchbolt monitoring) signal switch monitors both egress and access of an opening. When the latchbolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latchbolt position. **See Low Current option for computer operated system applications.**

**LC** (low current) option is available for RX and LX switches. **(Most commonly used in computer operated monitoring systems.)** The RX2 is not available in low current.

Signal Switches are available on 22, 33A, 35A, 55, 88, 98, 99 series devices. The low current version is not available with the 55 and 88 series devices.

The INPACT 94/95 series devices are only available with the LX switch option.

The device can be connected to a security console, or may be used as a single door alarm, when used with a horn and power supply. A continuous current electric transfer must be used for transferring the signal from the frame to the door.

Signal Switches can be used in combination with other electrical functions (EL, E).

• RX or RX2 may be combined with the E (electric unlocking) mortise lock device.

• For latchbolt monitoring on a mortise lock device, specify a SS7500 lock.

• LX and RX switches can be combined. Example: LX-RX99L.

• LX, RX or RX2 switches can be used in combination with EL (electric latch retraction) option.

RX, RX2 and LX switches are available for factory or field installation.

**RX and LX switches should not be used to control a load, but as a signaling switch.**

**LX33A/LX35A**
**RX33A/RX35A**

**LX98/LX99**
**RX98/RX99**

**Rim device shown — Refer to 33A/35A or 98/99 series catalog for complete product information, mounting styles, outside trim, finishes, etc.**

### To Order, Specify:

**For Factory Installed:**

| Prefix: | RX | Request to Exit |
|---|---|---|
| | RX2 | Double Request to Exit |
| | LX | Latchbolt Monitoring |
| | LXRX | Latchbolt Monitoring/Request to Exit Combination |
| | RXLC | Low Current Request to Exit |
| | LXLC | Low Current Latchbolt Monitoring |
| | LXRXLC | Low Current Latchbolt Monitoring/Request to Exit Combination |

Example: RX99L

**For Field Installed:**

1. Specify switch option (RX, LX, RX-LC, LX-LC).
2. Specify "field".
3. For LX, specify device size 3´ or 4´.
4. For LX, specify if used with EL (electric latch retraction) option.
5. To convert an existing RX option to RX2, specify RX-AUX.

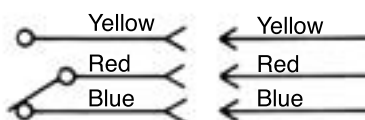Example: LX 3´ Field

### SPECIFICATIONS

**RX or LX:**

Switch rated 0.5 amperes @ 24VAC/DC resistive
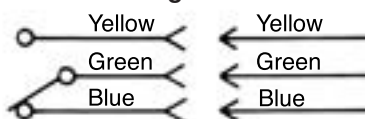
**Low Current RX or LX**

Switch rated 0.05 amperes @ 24VAC/DC resistive

**UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware — consult device catalog for complete device listing information.**
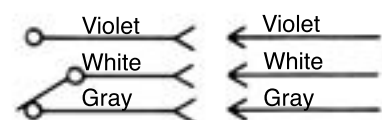
**RX Wiring**

| Yellow | Yellow |
| Red | Red |
| Blue | Blue |

**LX Wiring**

| Violet | Violet |
| White | White |
| Gray | Gray |

**RX-LC Wiring**

| Yellow | Yellow |
| Green | Green |
| Blue | Blue |

**LX-LC Wiring**

| Violet | Violet |
| Black | Black |
| Gray | Gray |

**SS** signal switch feature is used to signal the unauthorized use of an opening. Available on the 33A/35A and 98/99 series devices, these devices are equipped with two internal SPDT (single pole double throw) switches. One switch monitors both the touch bar and the latch bolt assembly, making the latch bolt tamper resistant, for positive security. An additional SPDT switch is connected to the 1¼″ (32mm) mortise cylinder (cylinder not furnished) for alarm "bypass" (momentary switch — not time delay).

The device can be connected to a security console, or may be used as a single door alarm, when used with a horn and power supply. A continuous current electric transfer must be used for transferring power from the frame to the door.

Push pad reads:

"EMERGENCY EXIT ONLY - PUSH TO OPEN AND SOUND ALARM." Push pad is only available in US32D finish with red-silk screened lettering.

**SS Mortise Lock devices** are furnished with signal switches in the device and the **SS7500 Mortise Lock,** totaling four switches.

The SS7500 mortise lock has the versatility and advantages of the 7500 lock with the addition of signaling functions to monitor latch bolt operation and trim locking function.
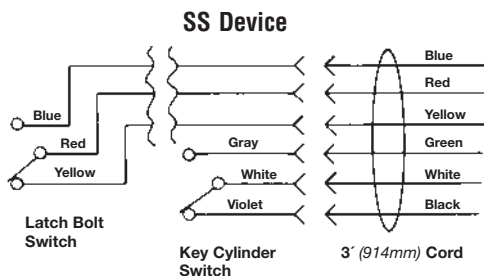
### To Order, Specify:

1. Prefix SS (signal switch)
2. Specify handing RHR or LHR

Example SS99L RHR

**Supplied with 3´ (914mm) Cable at the hinge side of door.**

SS33A/SS35A

SS98/SS99

**Rim device shown — Refer to 33A/35A or 98/99 series catalog for complete product information, mounting styles, outside trim, finishes, etc.**

**UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware — consult device catalog for complete device listing information.**

Minimum Door Width:

3´ (914mm) device – 2´6″ (762mm)
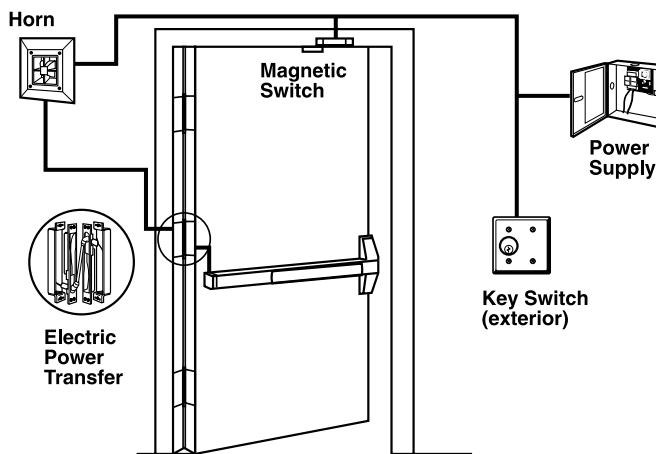4´ (1219mm) device – 3´0″ (914mm)

Actual device length will vary depending on device type, strike, stop height, single or double door, etc.
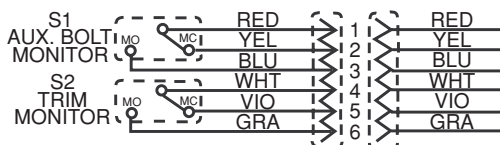
### SPECIFICATIONS
Each switch rated 0.5 ampere
24VDC Restrictive

### Popular SS Application
Unauthorized use of this opening will activate the local horn. The key switch permits inhibiting this system for authorized entry.

**Horn**

**Magnetic Switch**

**Power Supply**

**Electric Power Transfer**

**Key Switch (exterior)**

### SS Device

Blue

Red

Yellow

Green

White

Black

Blue

Red

Yellow

Gray

White

Violet

**Latch Bolt Switch**

**Key Cylinder Switch**

3´ (914mm) **Cord**

### SS 7500 Mortise Lock

| S1 AUX. BOLT MONITOR | | RED | | 1 | | RED |
| --- | --- | --- | --- | --- | --- | --- |
| MO | MC | YEL | | 2 | | YEL |
| | | BLU | | 3 | | BLU |
| S2 TRIM MONITOR | | WHT | | 4 | | WHT |
| MO | MC | VIO | | 5 | | VIO |
| | | GRA | | 6 | | GRA |

Note: Wiring shown with aux. bolt depressed (door closed) & trim locked.

**RX330 and RX350** bar features an active push pad with monitoring switch or "request to exit" switch, used to inhibit alarms for authorized exiting. The 330 grooved outer case and the 350 smooth outer case are designed as companion units for series 33A, 35A, 98 and 99 exit devices.

The RX switch option is also available on 55DU and 88DU crossbars, and are designed as companion units for series 55 and 88 exit devices.

The internal SPDT switch should not be used to control a load, but as a signaling switch.

**Minimum Door Openings:**
3′ (914mm)    2′6″ (762mm) to 3′ (914mm)
4′ (1219mm)    3′1″ (940mm) to 4′ (1219mm)
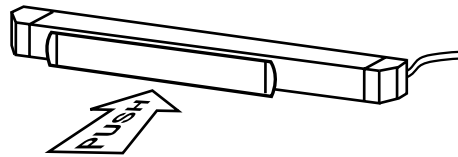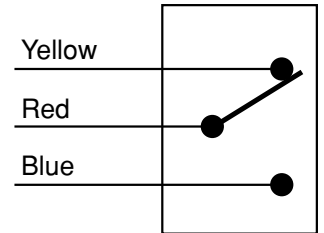
**To Order, Specify:**

1. Prefix series 330 or 350 with "RX". Example, RX330

2. Size 3′ or 4′ (3′ supplied standard if size not specified)

3. Finish: US3, US4, US10, US28, US26, US26D, 313AN, 315AN
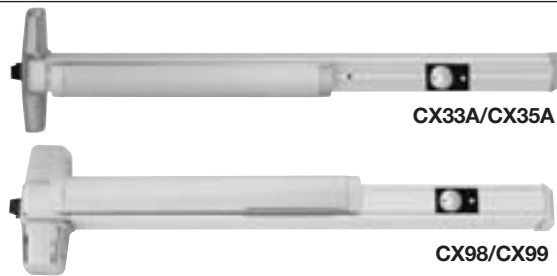
**RX330**

**SPECIFICATIONS**
SPDT 0.5 ampere @ 24VDC
Solenoid Draw - 0.22 amp

Yellow

Red

Blue

PUSH

**Supplied with 3′ (914mm) cable at the hinge side of door.**

## Chexit® Controlled Exit Device

**CX33A/CX35A**

**CX98/CX99**

**Rim device shown — Refer to Chexit Catalog for complete selection information.**

**CX** Chexit is designed for use on delayed exit applications. The Chexit system is ideal for controlled areas. This concept in delayed exit systems combines life safety with the needs of security and meets all requirements of NFPA 101 for "Special Locking Arrangement."

The Chexit system will keep an exit door secured for a 15 second period, yet tied into the fire alarm system will release immediately when an alarm condition exists. All controls, auxiliary locking, local alarm, and remote signaling output are self-contained in the Chexit assembly, providing safe, secure and easy to install door control hardware.

The Chexit system is ideal for highly controlled areas such as airports, hospitals, government facilities and development labs, retail stores, libraries and security facilities.

CX98 and CX99 are available for rim, mortise lock and surface and concealed vertical rod mounting styles. CX33A and CX35A are available on rim mounting style only.

For CX98/9927 and CX98/9957 Panic and Fire Devices, two Rod Guards (RGO) are required. For door heights over 7´ additional Rod Guards (RGO) will be added as needed to protect the rods.

UL listed for use on panic or fire exit doors 3´ or 4´ wide.

The Chexit device includes decal for application on door, "PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS".

A complete Chexit system requires a PS873 power supply and a power transfer. See pages 28 and 29.

FEATURES
• Non handed
• Field sizable
• ¾˝ (19mm) throw, latch bolt
• Deadlocking

**Request to Exit Switch** is built in to detect when someone attempts to exit. Applying less than 15 pounds to the push pad will cause this switch to start an irreversible alarm cycle.

**Nuisance Alarm** — When the Nuisance Audible and Nuisance Delay options are set to off the device will go into alarm as soon as the push pad is touched. Turning the Nuisance Delay on will require the push pad to be pressed for 2 seconds before the Chexit goes into alarm, which is ideal in public areas. If the Nuisance Audible and Nuisance Delay are both on, the alarm will sound as soon as the push pad is pressed, but the alarm sequence will stop unless held for 2 seconds or more.

**Remote Alarm** — A set of relay contacts (rated 1 ampere, 24VDC) are provided to give external alarm indication. These contacts close when the device is in an irreversible alarm condition. These contacts can be used to drive a horn, lamp, or other signaling devices.

**Key Switch** — The Key Switch provides the means to arm, disarm, or reset the Chexit. The key can be removed in either the Arm or Disarm position.

**Indicator Lamp** — The Indicator Lamp determines the status of the Chexit. When the lamp is off, it indicates disarmed and is functioning as a normal exit device. A slow flashing lamp indicates armed. A fast flashing indicator lamp indicates the device is in alarm.

**Internal Horn** — Whenever the device is in alarm or the push pad is pressed the Internal Horn will sound. The volume level of this horn exceeds 85 db at 6 feet.

**Door Position Input** — An external door position switch can be connected to the Chexit. The door position switch will cause the alarm to sound if the door is not closed when the device is armed.

**External Inhibit Input** — This optional input is provided to allow remote override of the Chexit in the armed condition. It also allows remote reset of the Chexit in an alarmed condition.

**Fire Alarm Input** — This input disables the Chexit immediately upon a fire alarm.

**Internal Auxiliary Lock** —The Auxiliary Lock is engaged when the Chexit is armed. The locking mechanism is specifically designed to hold securely even when the exit device is struck with forceful blows.

**User Definable Rearm Time** — The Rearm Time is the amount of time after the device is activated (via key switch or external inhibit) before it arms. It is designed to give someone time to pass through the door before rearming occurs. The user can change timing for any time between 2 and 28 seconds in two-second intervals.

There is also an infinite rearm setting that requires the use of an external door position switch. In this setting the door remains in the rearm mode until the door is closed. This can be useful on jet way doors in an airport.

**Factory Definable Delay** — Most jurisdictions allow 15 seconds of delay before allowing egress. In those cases when 15 seconds is not appropriate, Von Duprin can set the Chexit for any delay time between 0 and 60 seconds in two-second increments. *For delays greater than 15 seconds a letter from the local authority must be provided with the order.*

# VON DUPRIN® Alarmed Exit Devices (cont.)

## To Order, Specify:

1. Prefix product description number "CX".
   Example: CX99L

2. Door size other than 3´ (914mm).

3. Door thickness other than 1 3/4˝ (45mm).

4. Finish.

5. Handing, LHR or RHR. Required with "CD" option.

## OPTIONS
*(See Chexit catalog for all options and accessories)*

**RCM Remote Chexit Module** — is designed to provide the concept of the Chexit delayed exit system for door sizes smaller than the standard Chexit device can accommodate. The Chexit module is installed in a control box and mounted in a remote location. Features and functions of the standard Chexit exit device are available on the Remote Chexit Module.

**RCM Module**

**RCM Control Box, Lens, Cover**
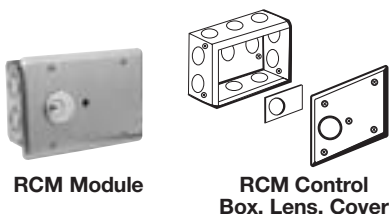
### Minimum Door Opening for CX and CX-R (RCM)

| Device | 3´ (914mm) Length | 4´ (1219mm) Length |
|---|---|---|
| CX33A/35A RIM | 2´10˝ (864mm) | 3´4˝ (1016mm) |
| CX 98/99 RIM | 2´10˝ (864mm) | 3´4˝ (1016mm) |
| CX 98/9927 | 2´9˝ (838mm) | 3´3˝ (1041mm) |
| CX 98/9947 | 2´9˝ (838mm) | 3´3˝ (1041mm) |
| CX 98/9947-F | 2´10˝ (864mm) | 3´4˝ (1016mm) |
| CX 98/9975 | 2´10˝ (864mm) | 3´4˝ (1016mm) |
| CX-R 33A/35A RIM | 2´5˝ (864mm) | 2´11˝ (1016mm) |
| CX-R 98/99 RIM | 2´5˝ (864mm) | 2´11˝ (1016mm) |
| CX-R 98/9927 | 2´4˝ (838mm) | 2´10˝ (1041mm) |
| CX-R 98/9947 | 2´4˝ (838mm) | 2´10˝ (1041mm) |
| CX-R 98/9947-F | 2´5˝ (864mm) | 2´11˝ (1016mm) |
| CX-R 98/9947WDC | 2´5˝ (864mm) | 2´11˝ (1016mm) |
| CX-R 98/9975 | 2´5˝ (864mm) | 2´11˝ (1016mm) |

**Cylinder Dogging** — Special Center Case Cylinder dogging option is available to allow push/pull operation of the Chexit, when disarmed and used in a heavy traffic area. Prefix device with "CD" and specify handing.
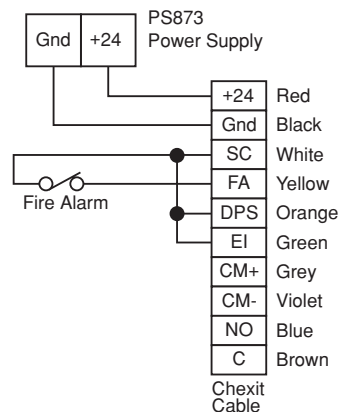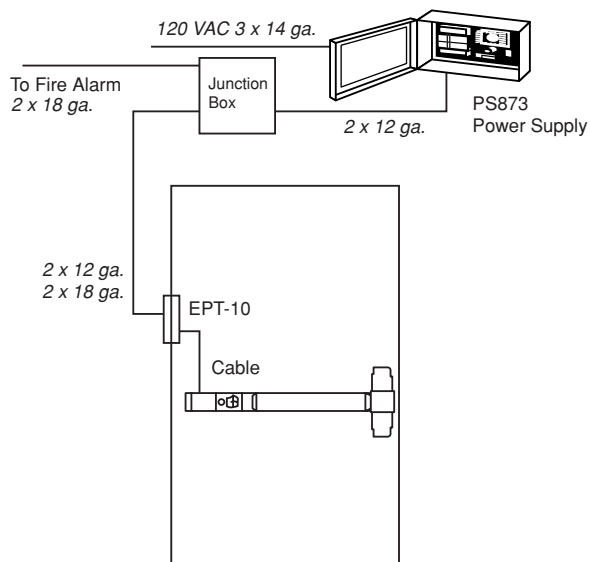
**Cylinders** — Cylinders are not furnished with the Chexit device and must be specified when ordering. Uses a standard 1 ¼˝ (32mm) mortise cylinder for the device and the CD cylinder dogging option.

### SPECIFICATIONS

| | |
|---|---|
| Continuous Duty — 24VDC | |
| Current In-rush — 16 amperes | |
| Current Holding — .3 amperes | |
| External Alarm Contact — 1 ampere @ 24VDC | |

Fire Alarm Input, External Inhibit Input, Door Position Input – set-up for normally closed dry contacts.

**Basic Chexit** single door application configuration consists of the Chexit device, power transfer and PS873 power supply. Using this setup, the Chexit will delay egress when armed and act as a normal exit device when turned off.

120 VAC 3 x 14 ga.

To Fire Alarm 2 x 18 ga.

Junction Box

PS873 Power Supply

2 x 12 ga.

2 x 12 ga. 2 x 18 ga.

EPT-10

Cable

PS873 Power Supply

| Gnd | +24 |
|---|---|

| +24 | Red |
|---|---|
| Gnd | Black |
| SC | White |
| FA | Yellow |
| DPS | Orange |
| EI | Green |
| CM+ | Grey |
| CM- | Violet |
| NO | Blue |
| C | Brown |

Fire Alarm

Chexit Cable

The **DE5101,** like the Chexit system, is used on delayed exit application and is ideal for controlled areas. This concept in delayed exit systems combines life safety with the needs of security and meets all requirements of NFPA 101 for "Special Locking Arrangement."

The DE5101 is commonly used on narrow stile doors where a standard or narrow stile Chexit is not practical. DE5101 Delayed Exit System uses a Chexit logic board and a Von Duprin RX (request to exit) panic device to control a Locknetics Direct Hold Magnetic Lock.

The Chexit module for the DE5101 is installed in a control box and mounted in the wall adjacent to the door. Features and functions of the standard Chexit exit device are available on the DE5101 (see page 22).

The DE5101 includes decal for application on door. "PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS". This is a code based requirement.

**Cylinders** — Cylinders are not furnished with the DE5101 system and must be specified when ordering. Uses a standard 1 ¼˝ *(32mm)* mortise cylinder for the control. (Schlage cam - B502-191)

### To Order, Specify:

1. DE5101

2. Locknetics 320, 350, or 390 Magnetic Lock (order direct from Locknetics).
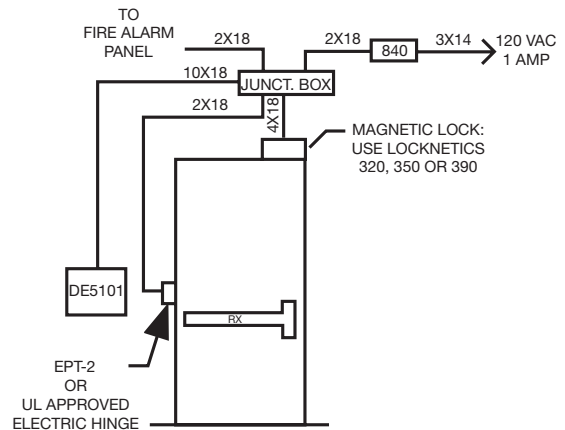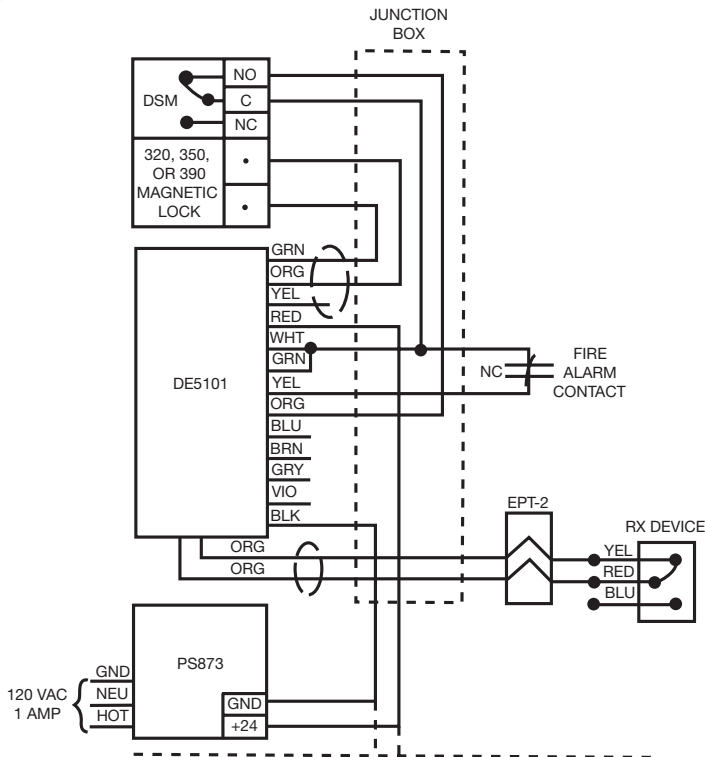
3. RX22/33A/35A/98/99 device.

4. PS873

5. EPT-2

**SPECIFICATIONS**

| | |
|---|---|
| Continuous Duty — 24VDC | |
| Current Holding DE5101 without Magnetic Locks – 300 mA | |
| External Alarm Contact — 1 ampere @ 24VDC | |
| Fire Alarm Input, External Inhibit Input, Door Position Input – set-up for normally closed dry contacts. | |

## ALK Battery Alarm Kit

**ALK** Alarm Kit is a simple yet effective way to deter unauthorized use of an opening. While the exit device is still a means of egress, the ALK kit contains an internal horn. When the touch bar is depressed, the horn sounds to provide an audible means of signaling that the opening has been violated. The alarm kit can be armed or disarmed by key thus allowing the exit device to be set in an armed or disarmed mode. The horn is rated at 85 decibels.

The key switch uses a standard 1¼" *(32mm)* mortise cylinder with a straight cam (Schlage cam reference B502-191).

The unit operates on one standard 9-volt alkaline battery. When the battery is weak, the horn will emit an intermittent low battery alert signal. The ALK can also be hard wired and powered using a PS9 power supply.

Alarm kits are furnished standard with a RX-request to exit switch that monitors the touchpad. Optional LX-latch bolt monitoring, or RX2-double request to exit monitor switches are available. LX-latch bolt monitoring is recommended for use with surface vertical rod exit devices.

**Note:** For latch bolt monitoring on a 98/9975 mortise device with ALK, specify SS7500 lock. LX switch is not available for 98/9975 devices.

The ALK includes a standard decal reading "EMERGENCY EXIT ONLY. ALARM WILL SOUND" for application on the door, or optional SS-signal switch push bar trim is available. See page 18 for details. The standard decal is white with red lettering.

The ALK is available with two optional circuit boards. External inhibit (EI) allows for the use of external switch to be used to arm, disarm and reset the alarm. Auto Reset (AR) rearms the alarm after a preset time. Auto Reset is available in three factory set times, 1 1/2, 3 or 6 minutes.

**To Order, Specify:**

1. With device, specify ALK.

2. To order separately specify model, example 22ALK.

3. Specify options EI or AR. For AR option specify factory set time (1½, 3 or 6 minutes). Example 98ALK-AR 3 min.

4. Door size other than 3´.

5. Switch if other than RX.

6. Optional pushbar, specify "SS" pushbar trim.

7. Finish:
   22ALK: SP28, SP313
   33A/99ALK: US3, US4, US10, US28, US26, 313AN, 315AN
   35A-ALK: US3, US4, US10, US15, US28, US26, 313AN, 315AN
   98ALK: US3, US4, US10, US15, US28, US26, US32D, 313AN, 315AN

**Minimum Door Opening Sizes on ALK Applications**

| Device | 3´ (914mm) Length | 4´ (1219mm) Length |
|---|---|---|
| 22/22F | 2´3˝ (673mm) | 2´9˝ (838mm) |
| 2227/2227-F | 2´2˝ (657mm) | 2´8˝ (838mm) |
| 33A/35A | 2´9˝ (838mm) | 3´3˝ (991mm) |
| 3327A/3527A | 2´8˝ (813mm) | 3´2˝ (966mm) |
| 3347A/3347A-F 3547A/3547A-F | 2´8˝ (813mm) | 3´2˝ (966mm) |
| 3348A/3348A-F/ 3548A/3548A-F | 2´8˝ (813mm) | 3´2˝ (966mm) |
| 98/98-F/99/99-F | 2´9˝ (838mm) | 3´3˝ (991mm) |
| 9875/9875-F/9975/9975-F | 2´9˝ (838mm) | 3´3˝ (991mm) |
| 9827/9827-F/9927/9927-F | 2´8˝ (813mm) | 3´2˝ (966mm) |
| 9857/9857-F/9957/9957-F | 2´8˝ (813mm) | 3´2˝ (966mm) |
| 9847/9847-F/9947/9947-F | 2´8˝ (813mm) | 3´2˝ (966mm) |
| 9848/9848-F/9948/9948-F | 2´8˝ (813mm) | 3´2˝ (966mm) |

**PS9 POWER SUPPLY**
PS9 power supply provides 9VDC to power ALK alarm kits. The unit will power one or two alarm kits. Included is a 9 volt sealed battery for power backup in case of AC power failure. PS9 must be ordered separate.

**2670 GUARD-X** provides secure, alarmed code-compliant protection for secondary emergency exits. The GUARD-X exit alarm lock readily identifies the door on which it is mounted as an emergency exit and secures the opening against unauthorized use. It is ideal for deterring theft in restaurants and retail establishments such as: discount stores, grocery stores, drug stores, clothing stores and sporting goods stores.

The GUARD-X lock provides secure protection through a large stainless steel deadbolt, which is 2″ x ½″ (51mm x 13mm) and has over ¾″ (19mm) throw. The engagement area into the strike is over 1 ¼″ (32mm) square inches. The cast aluminum latch case protects the internal mechanism and resists tampering or vandalism from inside the door. This unit has been tested to withstand up to 1600 pounds of static load force against the door.

GUARD-X does not allow re-latching or resetting the alarm after an unauthorized exit, other than by an authorized person with a key. A 100-decibel alarm provides clear, attention getting warning for an unauthorized exit or attempted exit. The armed indicator light informs the owner that the alarm is armed, and an audible low-battery alert signals the owner to replace the battery when necessary.

A standard 9-volt battery powers the alarm. An exterior 9-volt power supply is available, Model PT-790, a 120VAC plug-in. When using the external power supply, the 9-volt battery functions as a battery backup during a power failure.

GUARD-X is armed and disarmed by key using a standard rim cylinder. It can be operated from the building exterior by a standard rim cylinder, so an authorized user can easily arm and disarm it to enter or exit the building when required. When using exterior operation a pull trim is recommended, use 210DT or 230DT. Rim cylinders are not furnished and must be ordered separately.

The 267 strike is furnished standard for single door applications. The optional 2609 strike is available for double door applications.

The GUARD-X non-handed design means the installer can mount it for either hand by just removing and reversing the "EMERGENCY EXIT – ALARM WILL SOUND" sign built into the device. The standard warning sign is in English with Braille; French and Spanish are available.

GUARD-X is UL/cUL listed for Panic Exit Hardware, complies with NFPA 101 Life Safety Code, meets UL305 requirements and is tested in accordance to ANSI A156.3 Grade 1 Panic Hardware. It is compliant with NFPA 101 Life Safety Code by providing a push pad that extends at least one-half the width of any door up to 48″ wide. The impact-resistant end caps meet UL305 requirements by providing a design that will not catch on clothing during egress.

**To Order, Specify:**

1. Model 2670

2. Finish: US28, 313AN, 315AN.

3. Strike if other than standard 267.

4. Language if other than English.

5. Specify Rim Cylinder or Sex Bolts if required.

6. Outside trim if needed.

# VON DUPRIN® Electric Mortise Lock E7500

**E7500** electric mortise lock has all the versatility and advantages of the standard mortise lock device, plus the advantage of being electrically controlled by a remote switching device, an access control system or an automatic fire alarm system. Available for use with the 98/99 series devices.

**The E7500 controls the locking of the outside trim.** When unlocked, the door remains latched, preserving the fire rating of the door and making it particularly useful where codes permit locking, but require unlocking during a fire emergency.

The E7500 locks and unlocks electrically and cannot be locked or unlocked mechanically. The outside trim cylinder retracts the latch bolt for mechanical override, night latch function. Available only with TP, K or L functions. 1 ¼″ (32mm) mortise cylinder with straight cam (not furnished.) (Schlage B502-191)

The E7500 lock contains a SPDT signal to monitor the outside trim condition (locked or unlocked) and a second SPDT signal switch to monitor the latch bolt.

The E option does not include the power transfer from door to frame, the power supply or the control operator. Refer to EPT-10 on page 29 and PS861 or PS873 power supply on page 28.

## FEATURES
- Field reversible handing
- 24VDC continuous duty solenoid
- Tamper resistant
- Corrosion resistant
- Internal solenoid

## OPTIONS
- Fail safe - locked when energized, unlocked when de-energized or during power failure specify with suffix "FS".
- Fail secure - unlocked when energized, specify with suffix "FSE". Outside trim automatically relocks, unless held unlocked electrically.
- 24VAC (includes SO option).
- 12VDC
- 12VAC (includes SO option).

**Note:** *Some fire codes will require "Fail Safe" (FS) operation for stairwell doors. Be sure to specify the correct operation for your application.*
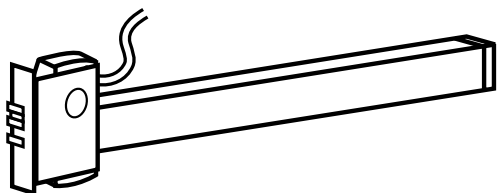


**Wiring at latch side of door.**
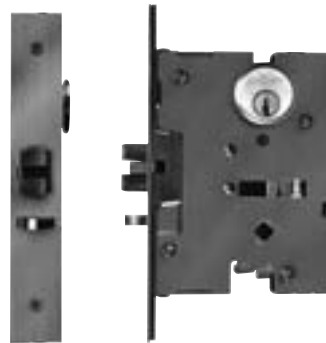


UL listed FVSR SA163 panic hardware and/or GXHX R4504(N) fire exit hardware – consult device catalog for complete device listing information.

## SPECIFICATIONS
| |
|---|
| Solenoid — 24VDC, .3 ampere, Continuous Duty |
| Solenoid — 12VDC, .6 ampere, Continuous Duty |

## To Order, Specify:
1. Model E7500.
2. Voltage 12V or 24V (24V furnished standard if not specified).
3. Current DC or AC (DC current furnished standard if not specified).
4. FS (Fail Safe) or FSE (Fail Secure).
5. Finish: US3, US4, US10, US10B, US32, US32D, US19.
6. When ordering with device, refer to device catalog section for complete product information (type, function, finish, etc.)



**Wiring**

Switches shown with trim locked and latch bolt deadlocked.
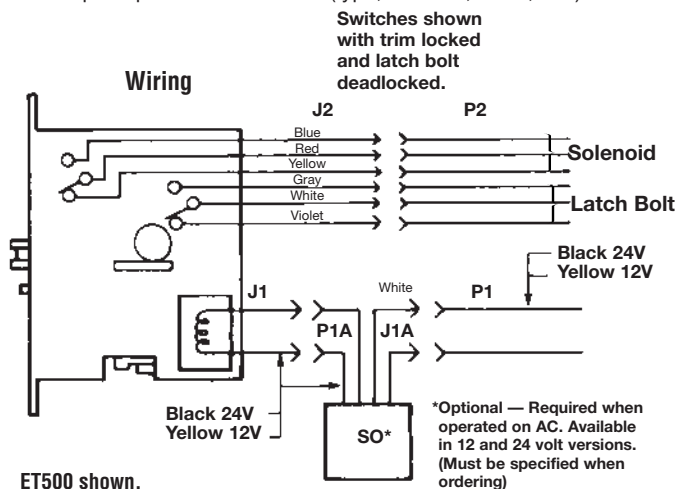
**ET500 shown.**
**SS7500 includes only J2/P2 connectors and wiring**
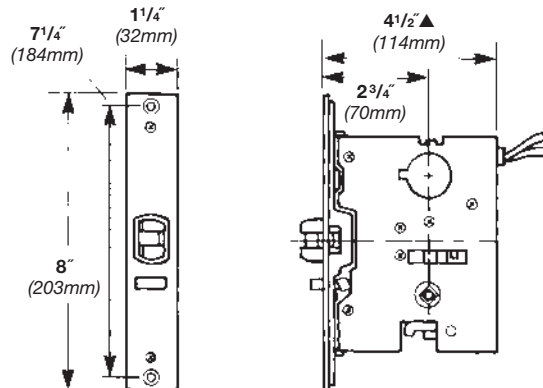


4 ¹³⁄₁₆″ (122mm) clearance required for wiring.

25

# VON DUPRIN® CM993 and PRO993 Exit Trim

The Von Duprin Computer Managed CM993 exit trim is a stand-alone, battery-powered exit trim for use on doors where an exit device is required for egress. The CM993 is designed to be used with Von Duprin 98/99 exit devices for unmatched access control and ease of use. It can be programmed with LockLink™ or LockLink™ Express access control management software. The same software can also manage the Schlage CM Locks and the Locknetics Universal Controllers, which provide intelligent access control for electrified or battery-powered products such as magnets, strikes and cabinet locks.

Multiple users, Multiple access points. Multiple credentials. One way to manage them.

## Provides Unmatched Access Control
- Manages up to 1,000 users and provides audit trail for last 1,000 events

- SmartTime feature allows for time functionality:
    – time zones
    – time schedules
    – holiday override periods
    – first person in
    – credential activation and expiration

- Full-swipe mag stripe card reader for maximum readability and reliability

- Optional audit trail of mechanical key override

- Auto card updating feature which disables a lost or stolen mag stripe card when the reissued card is presented at the lock

- LED status indicators

## Easy to Retrofit… Easy to Operate and Architecturally Designed for New Construction

- Directly retrofits existing trim

- Fits doors from 1⅜″ to 2¼″ thick

- Comes with Schlage Everest 1¼″ cylinder, but can adapt to other existing key systems

- LockLink™ software that programs the locks is Windows®-based and menu-driven. It can be operated with minimal training



**CM993 Exit Trim**



**For use with VonDuprin 98/99 Series Exit Devices including Rim, Surface Vertical, Concealed Vertical and Three-Point latching models. (Not for use with mortise devices.)**

## Conversion to New Card System Not Necessary
- Our exit device trims most likely work with your existing mag card and HID prox cards
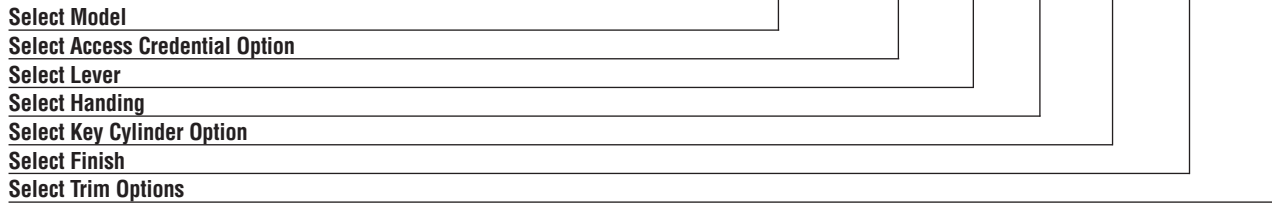
## Programmable PRO993 Exit Trim for Manual Programming
- Manually program up to 120 keycodes right at the trim

- Similar mechanical features as CM993

- Complements Schlage PRO and Locknetics PRO Series products

# VON DUPRIN® How To Order Exit Trim

**CM993 – MGK – 06 – LH – KD – 695 – EXT**

- Select Model
- Select Access Credential Option
- Select Lever
- Select Handing
- Select Key Cylinder Option
- Select Finish
- Select Trim Options

## 1. Select Model

**CM993** Computer managed exit trim

**993-DT** Dummy trim for inactive leaf

**PRO993** Manually programmed exit trim

**993-BE** Blank escutcheon

## 2. Select Access Credential Option (CMs only)

**KPI** Keypad iButton Reader

**IBO** iButton Reader

**MGK** Mag Card Reader Keypad iButton Reader

**MGI** Mag Card Reader iButton Reader

**PXK** HID prox Reader Keypad iButton Reader

**PXI** HID prox Reader iButton Reader

## 3. Select Lever

**06** (Standard)

**17**

## 4. Select Handing

**RH** Right Hand
**LH** Left Hand
*Note: Handing is field-reversible*

## 5. Select Key Cylinder Option
### (1 1/4″ Mortise)

**KD** Schlage Everest Cylinder
**LC** Less Cylinder

*Note: Master keyed cylinders order separately*

## 6. Select Finish
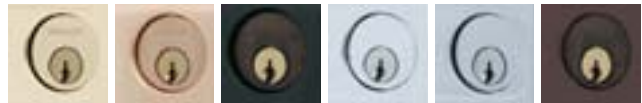
| **605** Bright Brass | **612** Satin Bronze | **613** Oil Rubbed Bronze | **625** Bright Chrome | **626** Satin Chrome (Standard) | **695** Duranodic Dark Bronze |

## 7. Select Trim Options

**ATK** Audit trail of mechanical key override, includes ATR (Requires computer programming)

**T3** ABA Track 3 Mag Card Reader (ABA Track 2 is standard for MGI and MGK Series only)

**EXT** Mag Card Reader for exterior use (for MGI and MGK Series only)

**Door Thickness** State door thickness. Available from 1⅜″ to 2¾″ in ⅛″ increments

**EG** Exterior Gasket for PRO993 only

### Select Credentials

**IBA** iButton (adhesive backed)
**IBF** iButton on Fob
**MAG1** Magnetic Stripe Card – Blank
**MAG2** Magnetic Stripe Card – Pre-encoded
**PRX1** Prox Card – Standard .070″ thick
**PRX2** Prox Card – Adhesive backed for photo application, .070″ thick
**PRX3** Prox Card – ISO – credit card size and thickness, .031″ thick
**PRX4** Prox Card – Dual Technologies, magnetic stripe and Prox, .031″ thick
**PF1** Prox Fob

# VON DUPRIN ® Power Supplies

## SERIES PS861

The series PS861 power supply is designed for electromagnetic locks and electric strikes on single door applications. The output power is field selectable for either 24VDC @ 1 ampere or 12VDC @ 2 ampere. Standard input 120VAC @ 0.6 ampere and 240VAC @ 0.3 ampere available. Terminal block will accept up to 14 gauge stranded wire.

Enclosure is 10˝ high x 12½˝ wide x 5˝ deep* *(254mm x 323mm x 127mm)*, gray with 1 hinged cover and constructed of heavy 19 gauge steel. Six ½˝ *(13mm)* knockout holes are provided for conduit connection.

Options include keylock cover and sealed lead acid battery pack. The pair of batteries will provide back-up power for three hours at full load or seven hours at half load. Batteries will automatically recharge when failed power is restored. Not appropriate for CX or EL devices.

### FOUR CONFIGURATIONS
| | |
|---|---|
| PS861 | Standard supply |
| PS861K | Standard supply with keylock cover |
| PS861B | Battery backup |
| PS861BK | Battery backup and keylock cover |

## SERIES PS873

The series PS873 power supply is designed to operate a wide variety of electrical products. EL panics require 871-2 PCB minimum. The regulated output power is field selectable for either 24VDC @ 2 ampere or 12VDC @ 4 ampere. Standard input 120VAC @ 1.0 ampere or 240VAC @ 0.5 ampere available.

Enclosure is 10˝ high x 12½˝ wide x 5˝ deep *(254mm x 323mm x 127mm)*, gray with a hinged cover and constructed of heavy 19 gauge steel. Five ½˝ x ¾˝ *(13mm x 19mm)* knockout holes are provided for conduit connection. Terminal block will accept up to 12 gauge wire.

The PS873 can be ordered with three standard options: **Key lock** secures the cover to eliminate tampering and provides safety; **Battery backup** provides two hours backup power at full load during a A.C. power failure; **Fire Alarm** provides input for a normally closed fire alarm contact. When the fire alarm contact is "open", power to locks or other component is removed. Restoring power is field selectable for automatic or manual.

### Eight standard configurations:
| | |
|---|---|
| PS873 | Standard |
| PS873K | With keylock |
| PS873B | With battery |
| PS873BK | With battery and keylock |
| PS873FA | With fire alarm |
| PS873K-FA | With keylock and fire alarm |
| PS873B-FA | With battery and fire alarm |
| PS873BK-FA | With battery, keylock and fire alarm |

The series PS873 is available with several optional circuit cards to provide system flexibility. The power supply will accept one or a combination of any two cards.

**Factory or Field Installed Circuit Cards:**
**871-2, Two Zone** controller provides two inputs and two outputs. Will operate one or two EL exit devices. Use suffix "-2" for factory installed, example PS873-2.

**873-AL, Alarm** function monitors 1 or 2 zones and provides alarm output, upon detecting a door in the open position. Delayed alarming is selectable from 5 to 75 seconds. Use suffix "-AL" for factory installed, example PS873-AL.

**873-AO, Auto Operator** function coordinates the electric latch retraction of one or two locks or devices and signals an auto-operator to open a door. Signaling the auto operator can be performed in two methods; by receiving a signal from a monitoring switch that the lock is unlatched, or upon expiration of a time delay triggered by a "RX" type input switch. Use suffix "-AO" for factory installed, example PS873-AO.

**873-SI, Security/Safety Interlock** provide interlock function for two zones. When combined with a second 873-SI card, the inter-locking of groups are available in two, three or four zones. Safety interlock is available, consult factory for additional information. Use suffix "-SI" for factory installed, example PS873-SI.

**873-4TD, Four Zone** controller with **Time Delay** provides four inputs and four outputs with time delay. Time delay is field selectable from 0 to 75 seconds, in intervals of 5 seconds. Use suffix "-4TD" for factory installed, example PS873-4TD.

**873-AC, Access Control** provides supervision of one zone using an electromagnetic lock. Input signals required are: access control contact, motion detector contact, and motion detector override contact. FA, Fire Alarm option is required. Use suffix "-AC". For factory installed, example PS873-AC.

**Factory Installed Only Circuit Cards:**
**873-DE, Delayed Egress** function ideal for use with electromagnetic locks, will operate two zones simultaneously. To operate two separate zones, a second 873-DE card is required. UL listed component, when used as part of a Von Duprin delayed egress system. Use suffix "-DE", example PS873-DE.

Note: DE cards cannot be combined with any other optional cards.

### PS9 Power Supply
PS9 Power Supply provides 9VDC to power ALK alarm kits. The unit will power one or two alarm kits. Included is a 9 volt seated battery for power backup in case of AC power failure. PS9 must be ordered separate.

# Electrical Power Transfer

Electric Power Transfer provides a means of transferring electrical power from a door frame to the edge of a swinging door. The units are completely concealed when the door is in the closed position, and are ideally suited for installations involving abuse or heavy traffic.

Two models are available; EPT-2, two 18 gauge wires and EPT-10, ten 24 gauge wires.

The EPT-2 and EPT-10 are UL listed as "miscellaneous door accessory."

**Pneumatic Controls**
PNT-1 is available for pneumatic latch retraction exit devices. Appearance and dimensions are identical to EPT models.

UL listed for use on fire doors.

**Door Applications**
Up to 5˝ butt hinges - 180° Swing
5 1/2˝ butt hinges - 130° Swing
6˝ butt hinges - 110° Swing
3/4˝ butt offset pivots - 180° Swing

Not for use with swing clear hinges or center-hung pivots.

| SPECIFICATIONS |
| --- |
| Housing — 9˝ x 1¼˝ x 1⅝˝ *(229mm x 32mm x 38mm)* |
| EPT-2 — Two 18 gauge wires Up to 2 amps @ 24VDC, with a 16 amps maximum surge |
| EPT-10 — Ten 24 gauge wires, up to 1 amp @ 24VDC, with a 16 amps maximum surge |
| PNT-1    ⁵⁄₃₂˝ Tubing |

**TO ORDER, SPECIFY:**
1.  EPT-2, EPT-10 or PNT-1
2.  Finish, SP28 or SP313



**UL Listed as "Miscellaneous" Fire Door Accessory" GVUX**

# Junction Box

High quality NEMA 1, junction boxes provide convenient installation, available in three models. These surface mounted units are 10˝ *(254mm)* high, 10" *(254mm)* wide and 6˝ *(152mm)* deep and includes hinged door with twist turn lock. 24 position terminal strip will accept from 24 to 12 gauge wire.

**Five models:**

**JB7**    Junction box only.

**JB7-R1** Junction box with SPDT Relay.

**JB7-R2** Junction box with DPDT Relay.

**JB7-R3** Junction box with DPDT Relay on Make Relay.

**JB7-R4** Junction box with DPDT Relay on Brake Relay.

# VON DUPRIN® Monitor Strikes

**Monitor Strikes** are designed to offer remote door monitoring through the use of a signal switch mounted in the strike to monitor the latch bolt. This series of monitor strikes is designed for use with Von Duprin and most other manufacturers' rim, mortise, surface and concealed vertical rod exit devices and cylindrical, mortise, and unit type locks.

The Monitor strike replaces the standard door strike. The tripper in the monitor strike is depressed when the latch bolt is fully inserted in the strike the stainless steel tripper activates an electric switch.

## TO ORDER, SPECIFY:

1. Model
2. Tripper T1, T2, or T3.
3. Handing required on model 4582. Specify LHR or RHR.
4. Finish: US3, US4, US10, US10B, US26, US26D.

## BASIC MONITOR STRIKE CIRCUIT



**Indicating Lights**

**Monitor Strike**
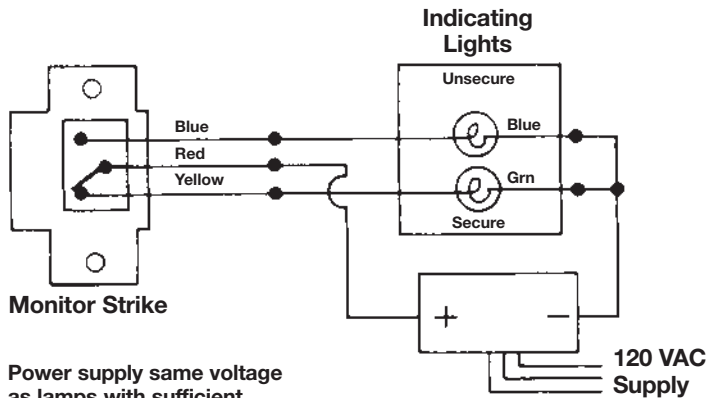
**Power supply same voltage as lamps with sufficient current capabilities**

Blue
Red
Yellow
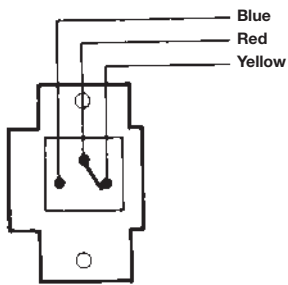
**Single**
Switch shown in secure position

Blue
Red
Yellow

Blue
Red
Yellow
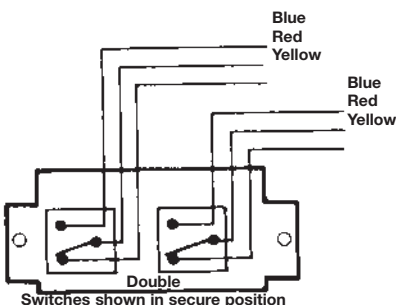
**Double**
Switches shown in secure position

---



**Tripper**

**Signal Switch Housing**

**Faceplate**

T1   T2   T3
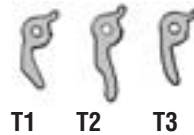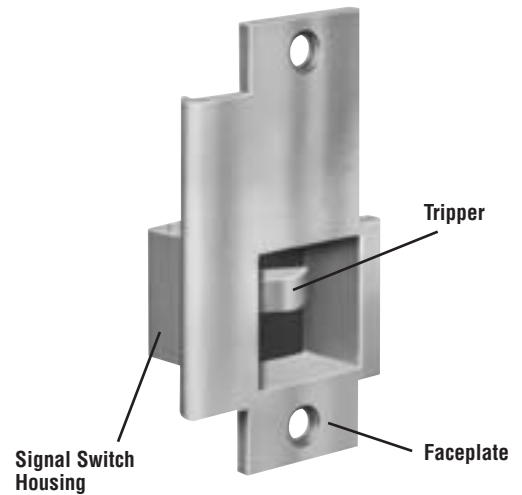
▲Tripper selection is based on the throw and shape of the latch bolt.

## SPECIFICATIONS
**SPDT Switch (single pole double throw):**
Rated 24VDC @ 2 amperes (resistive)

**4263**

**4263**

Monitor strike for use with rim or surface vertical rod exit devices. The 4263 is non-handed and features horizontal adjustment to compensate for misalignment of door and frame. The faceplate is drop forged brass. The tripper selection (-T1 or -T3) is based upon the lock to be used with. See Chart below. Two 4263 strikes may be used on 4754 mullion.

### COMPATIBILITY CHART

Von Duprin

|  |  |
|---|---|
| 22 | T3 |
| 2227 | T1 |
| 33A/35A | T1 |
| 3327A/3527A | T3 |
| 44 | T1 |
| 55 | T1 |
| 88 | T1 |
| 8827 | T1 |
| 98/99 | T3 |
| 9827/9927 | T1 |
| Monarch |  |
| Rim (3/49 (19mm) throw) | T3 |
| Yale |  |
| 1500 (5/89 (16mm) throw) | T1 |
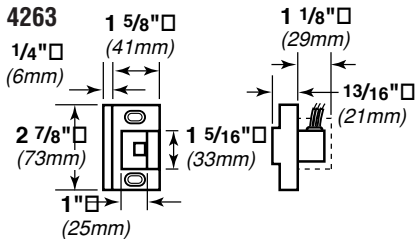


**4268T1**      **4582**

**UL listed (GXHX R4504) fire exit hardware.**

### 4268–T1 Single Doors Only - (Not for Mullions)

Monitor strike especially for rim fire devices. The 4268 features horizontal adjustment to compensate for misalignment of door and frame. The faceplate is brass or cast stainless steel. The SPDT signal switch is rated at 24VDC @ 2 amps (resistive) and is actuated by a stainless steel tripper.

### COMPATIBILITY CHART

| 22/22-F |
|---|
| 33/35 |
| 88/88-F |
| 98/99/98-F/99-F |
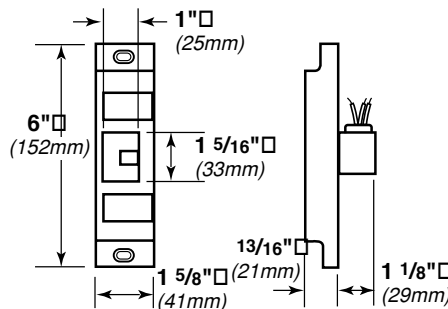
### 4582

Monitor strike for use with mortise or cylindrical locks on single or pairs of doors with ANSI A115.3 frame cutout (frame modification required). The one piece faceplate and body is constructed of drop forged brass.
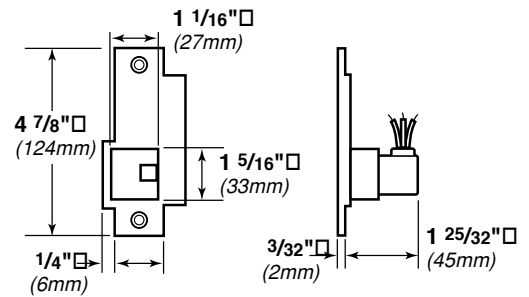
The tripper selection (-T1 or -T2) is based upon the lock to be used. See Chart below.

**Note:** When used with Von Duprin 7500 mortise lock, strike handing is opposite device handing.
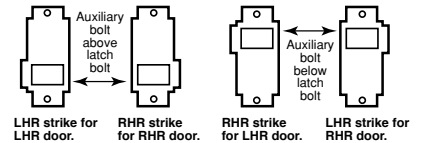
### COMPATIBILITY CHART

| Von Duprin 7500 ML |  | T1 |
|---|---|---|
| Arrow | ⅝″ (16mm) ML (LR) | T2 |
| Corbin | ⅝″ (16mm) ML (LR) | T2 |
| Falcon | ⅝″ (16mm) ML (LR) | T2 |
| Russwin | ⅝″ (16mm) ML (LR) | T2 |
|  | 5000 ML (LR) | T2 |
| Schlage | ¾″ (19mm) Cyl. | T2 |
|  | L90 | T2 |
| Yale | ⅝″ (16mm) ML (LR) | T2 |

**4582**    **Top**



1 1/16" (27mm)

4 7/8" (124mm)

1 5/16" (33mm)

1/4" (6mm)

3/32" (2mm)

1 25/32" (45mm)

**Caution: proper selection of handing required.**



Auxiliary bolt above latch bolt

**LHR strike for LHR door.**   **RHR strike for RHR door.**

Auxiliary bolt below latch bolt

**RHR strike for LHR door.**   **LHR strike for RHR door.**

**4263**

1/4" (6mm)   1 5/8" (41mm)   1 1/8" (29mm)

2 7/8" (73mm)   1 5/16" (33mm)   13/16" (21mm)

1" (25mm)



**4268-T1**

1" (25mm)

6" (152mm)   1 5/16" (33mm)

1 5/8" (41mm)   13/16" (21mm)   1 1/8" (29mm)

## 4570–T1

For use on single or double door applications with ANSI A115.2 frame cutout (frame modification required). See Chart below.
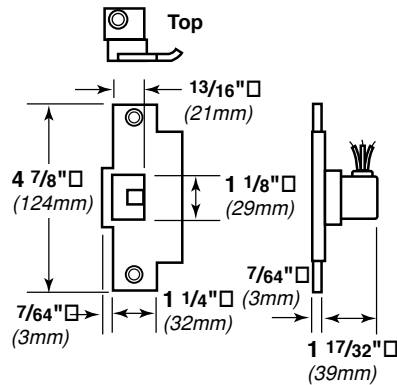
## 4570–T1

For use on single or double door applications with ANSI A115.3 frame cutout (frame modification required). See Chart below.

### COMPATIBILITY CHART

| Adams-Rite | 4510 | T1 |
|---|---|---|
| | 8400 | T1 |
| Arrow | 1/29 (13mm) Cyl. | T1 |
| Best | 9/169 (14mm) Cyl. | T1 |
| Corbin | 5/89 (16mm) Cyl. | T1 |
| Dexter | 7/169 (11mm) Cyl. | T1 |
| Falcon | 1/29 (13mm) Cyl. | T1 |
| | 9/169 (14mm) Cyl. | T1 |
| Kwikset | 1/29 (13mm) Cyl. | T1 |
| Lockwood | 1/29 (13mm) Cyl. | T1 |
| Precision | 1040 Auto. Flush Bolt | T1★ |
| Russwin | 5/89 (16mm) Cyl. | T1 |
| Sargent | 1/29 (13mm) Cyl. | T1 |
| Schlage | 1/29 (13mm) Cyl. | T1 |
| | 5/89 (14mm) Cyl. | T1 |
| Yale | 1/29 (13mm) Cyl. | T1 |

★ **Special template required.**



**4570-T1**
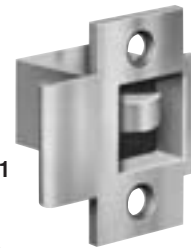


**4670-T1**



**4690-1-T2**

**UL listed (GXHX R4504) fire exit hardware, (4268T1 and 4582 only).**

## 4690–T2

Use on wide stile double door applications.

## 4690–1–T2

Use on narrow stile double door applications. (Contains two SPDT switches, one for each latchbolt).
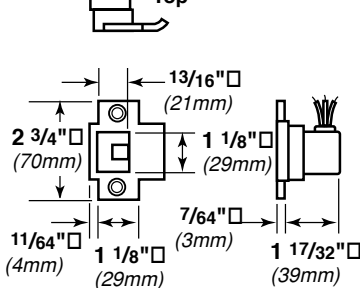
### COMPATIBILITY CHART

| | 4690 | 4690-1 | |
|---|---|---|---|
| Von Duprin | 3347A-F | — | T2 |
| | 3347A | 3347A | T2 |
| | 9947 | — | T2 |
| | 9947F | — | T2 |

**4570-T1**



13/16" (21mm)
4 7/8" (124mm)
1 1/8" (29mm)
7/64" (3mm)
7/64" (3mm)
1 1/4" (32mm)
1 17/32" (39mm)

**4670**



13/16" (21mm)
2 3/4" (70mm)
1 1/8" (29mm)
11/64" (4mm)
1 1/8" (29mm)
7/64" (3mm)
1 17/32" (39mm)

**4690-T2**



1" (25mm)
3 1/4" (83mm)
1 5/16" (33mm)
1/4" (6mm)
1 1/4" (32mm)
3/32" (2mm)
1 25/32" (45mm)

**4690-1-T2**



1" (25mm)
1 5/16" (33mm)
3 1/4" (83mm)
1 5/16" (33mm)
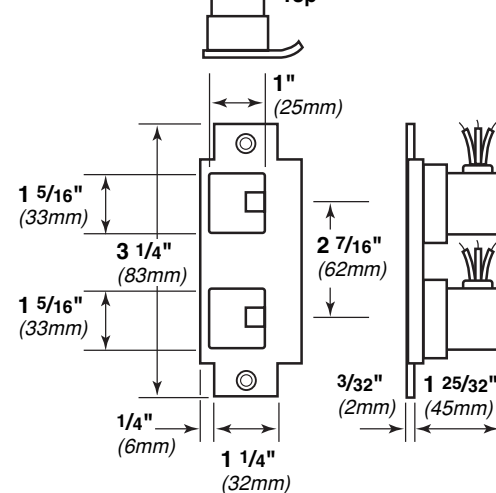2 7/16" (62mm)
1/4" (6mm)
1 1/4" (32mm)
3/32" (2mm)
1 25/32" (45mm)
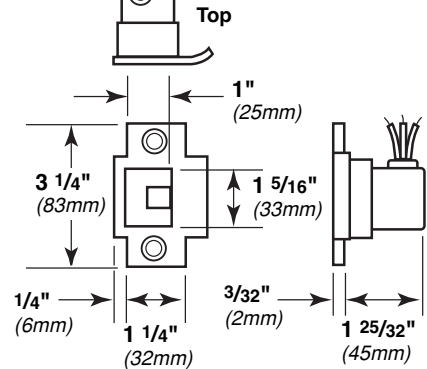
# VON DUPRIN® Mullions

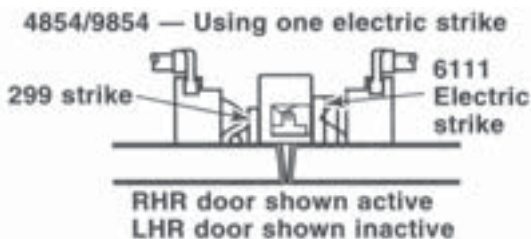**Electrified Removable Mullions** are used with pairs of doors equipped with rim mounted exit devices.

Each includes an electric cable with five conductors wired to a twist-apart plug. The soffit fitting is supplied with a pre-wired mating socket.

**4754** — Prepared for two 4263 monitor strikes. Use with all Von Duprin rim panic devices.
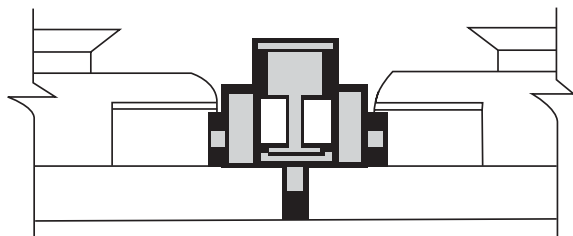
**4854** — Prepared for one 6111 electric strike and one 299 strike. Indicate handing for electric strike.

**9854** — Prepared for one 6111 electric strike and one 268 or 499F strike. Indicate handing for electric strike. UL Fire labeled for up to 3 hours on up to 8' x 8' (2438mm x 2438mm) openings using Von Duprin fire exit rim devices.

**4854/9854 — Using one electric strike**

299 strike
6111 Electric strike

RHR door shown active
LHR door shown inactive

**KR - Keyed Removable** option available on electrified removable mullion. Makes removal faster and easier by a single operation of the mortise cylinder. Once mullion is removed, large equipment or furniture can freely pass through the opening. The unit will self lock when re-installed, without use of the cylinder key. Uses 1 1/4˝ mortise cylinder with a straight cam (Schlage cam reference B502-191). Cylinders are sold separately. Prefix mullion model with "KR".

**To Order, specify**
1. Model number.
2. Height of opening
3. Finish: SP28, SP313, SPBLK.
4. Handing if required.
5. Centerline deviation (refer to device template for standard centerline).
6. Strikes, when required, should be ordered with device.
7. For keyed removable option prefix model number with "KR", example KR9854.
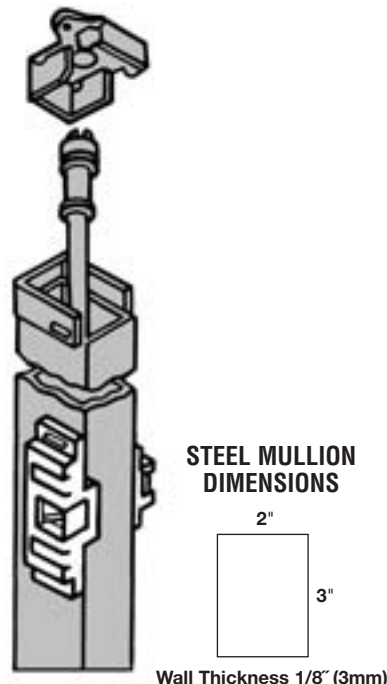
## STEEL MULLION DIMENSIONS

2"
3"

**Wall Thickness 1/8˝ (3mm)**

## Sizes for Mullions

**4754, 4854, 9854**
7´ 2˝ (2184mm)
*8´ 2˝ (2489mm)
*10´ 2˝ (3099mm)

| KR4754, KR4854 | KR9854** |
|---|---|
| 7´ 6˝ (2286mm) | 7´ 5˝ (2261mm) |
| 8´ 6˝ (2591mm) | *8´ 5˝ (2565mm) |
| 10´ 6˝ (3200mm) | *10´ 5˝ (3175mm) |

* Only qualifying applications will be provided with UL Label.
** Fire rated same as 9854

## QUICK DISCONNECT

Red
Yellow
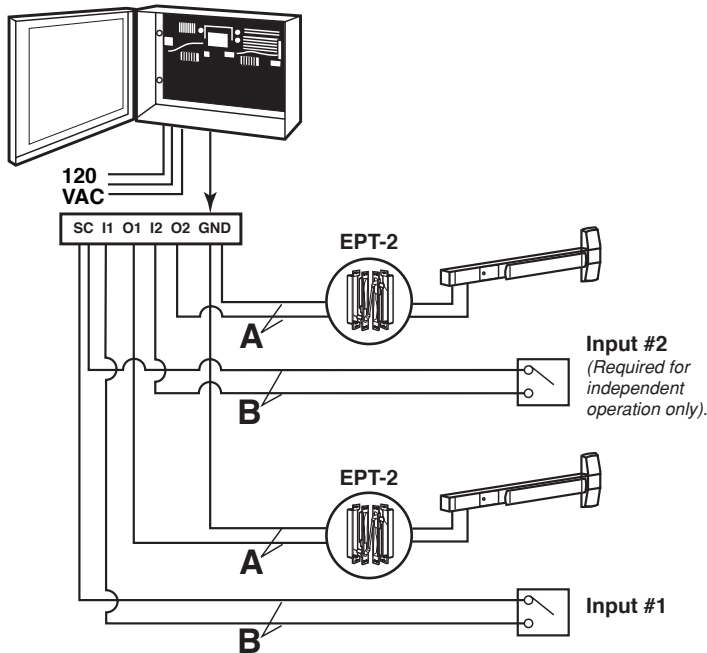Blue
Black
Black
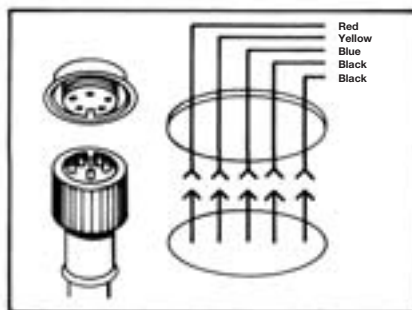
## SOFFIT DETAILS

1" (25mm) Diameter Clearance
Reinforcement

Reinforcement

Filler block is to be supplied by the frame mgf. for conditions similar to this.
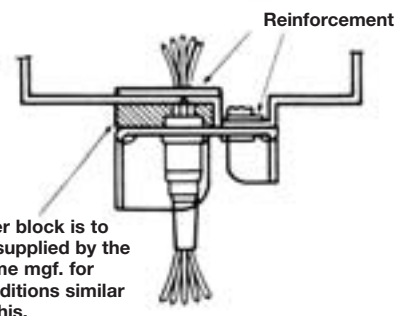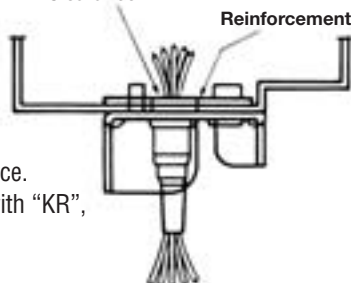
## WIRE SIZE SELECTION

| | Current requirement at 24 VDC | | | |
|---|---|---|---|---|
| | 0–.5 Amp | .5–1 Amp | 1–2 Amp | 2–3 Amp |
| 0-100 *(0-30)* | 18 | 18 | 18 | 18 |
| 100-200 *(30-61)* | 18 | 18 | 18 | 16 |
| 200-300 *(61-91)* | 18 | 18 | 16 | 14 |
| 300-450 *(91-137)* | 18 | 16 | 14 | 12 |
| 450-600 *(137-183)* | 18 | 16 | 12 | NR |
| 600-900 *(183-274)* | 16 | 14 | NR | NR |
| 900-1.200 *(274-366)* | 14 | 12 | NR | NR |



**120 VAC**

SC  I1  O1  I2  O2  GND

EPT-2

**A**

**Input #2**
*(Required for independent operation only).*

**B**

EPT-2

**A**

**Input #1**

**B**

## A

| WIRE SIZE SELECTION | Using EL Device w/EPT or Door Loop |
|---|---|
| 0-100 *ft* | 14 gauge |
| 0-200 *ft* | 12 gauge |
| | Using EL Device w/Electric Hinge/Pivot (not shown) |
| 0-150 *ft* | 12 gauge |
| 0-75 *ft* | 14 gauge |

## B

| WIRE SIZE SELECTION | Using EL Device w/EPT or Door Loop |
|---|---|
| 1200 *ft* (366 meters) Maximum | B-18 gauge |

## HANDING OF DOORS



Left Hand Orientation

Right Hand Orientation

**LHR**
(Left hand reverse)

**RHR**
(Right hand reverse)

Outside
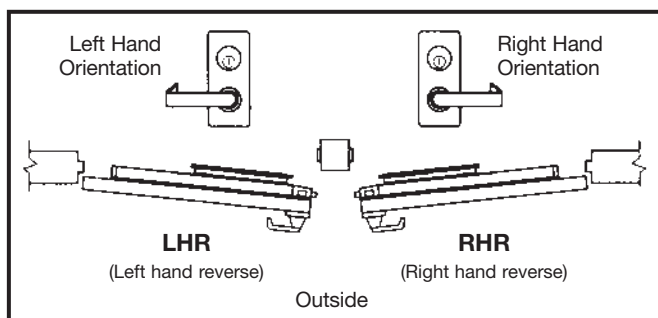
# VON DUPRIN ®

## International Offices

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IR Security & Safety
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Mississauga, Ontario
L5E 1E4, Canada
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(905) 278-1413 FAX
(877) 590-4734

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Shanghai 200030, P.R.China
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+(86) 21 5410-1110 FAX
www.irco.com.cn

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**Visit Von Duprin on the web**
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# VON DUPRIN ®

# 5100 Series
## Electric Strikes

### Overview

The Von Duprin 5100 Electric Strike has been designed and manufactured to meet the needs of locksmiths and security professionals. This easy-to-install electric strike was created for medium duty applications, specifically to control traffic flow through interior and exterior openings in retail and commercial environments.
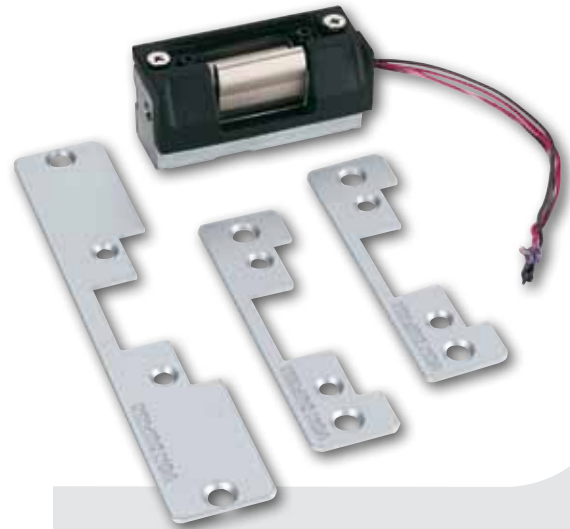
### Features and Benefits

- Three faceplates standard in every box
- 12/24 dual-voltage
- Fail-safe/fail-secure
- Adjustable keeper
- Internal solenoid
- Non-handed
- Backbox depth of 1 11/16"
- Keeper depth of 1/2"
- Mounting tabs
- Retrofit kit
- Illustrated installation instructions
- Tamper resistant
- 1 year electrical product warranty
- Continuous duty operation
- Heavy duty construction

**Ingersoll Rand**
Security Technologies

## POWER OPTIONS

- DC: Regulated Power Supplies (Recommended)
  - PS902 Power Supply
- DC: 24V Unregulated Power Supplies (Acceptable)
  - Schlage 593 PI-24DC (Plug-In)
  - Schlage 592-24RC (Hard-Wired)
- AC/DC Conversion:
  - Von Duprin SO-24 Kit

## Specifications

**ANSI/BHMA 156.5 Grade 1**

**UL 1034 Burglary Listing**

|  | 12VDC | 24VDC |
|---|---|---|
| **Resistance (Ohms)** | 32 | 128 |
| **Power (watts)** | 4.5 | 4.5 |
| **Current (amps)** | 0.38 | 0.19 |
| **All specs ± 10% @77°F/25°C** | | |

## STANDARD CONFIGURATION

- 24 volts DC
- Fail-secure
- Field convertible to Fail-safe

## DIMENSIONS

- Backbox: 3 3/8" x 1" x 1 11/32"
- Overall Strike Depth: 1 11/16"
- Faceplates:
  - 4 7/8" round corner ANSI A115.2 standard frame prep
  - 4 7/8" square corner ANSI A115.2 standard frame prep
  - 7 15/16" long, round corner wood frame prep
- Keeper pocket: 1 7/16"L x 1/2"D x 11/16" - 13/16"W (adjustable)
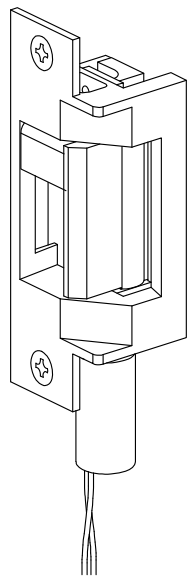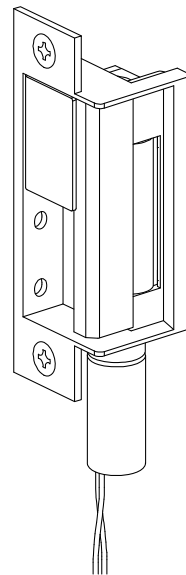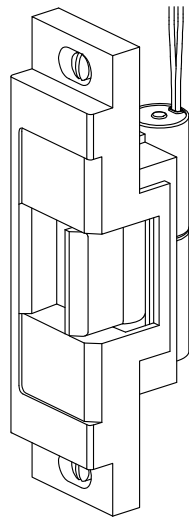- Lip Attachment cut-out depth: 1 1/16"
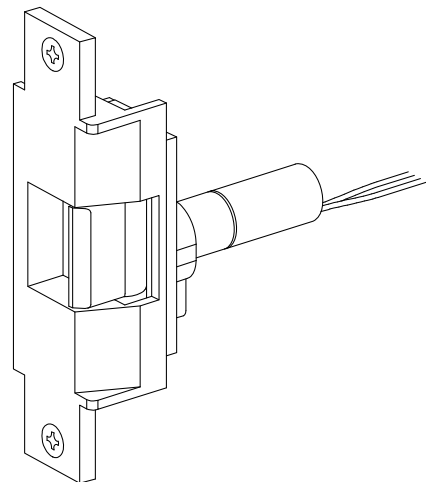
**Ingersoll Rand**
*Security Technologies*

# VON DUPRIN®

## PARTS MANUAL

## 6000 SERIES
## ELECTRIC STRIKES

**Ingersoll Rand**
*Security Technologies*

**PM6000_A**

**VD-5563**

## INDEX

### General Information

### 6000 Series Electric Strike Parts

## INTRODUCTION

This manual listsreplaceable parts and assemblies for 6000 Series Electric Strikes.

## HOW TO ORDER

Some parts are sold separately. Other items are available as part of a kit or multiple quantity package. For the best possible service when ordering replacement parts or assemblies, please provide the following information:

- Part number or assembly number
- Description
- Quantity needed
- Finish desired (if available finished)
- Date of original purchase (if known)

To find out the name of your local Von Duprin distributor or sales representative, contact:

Von Duprin Division
Ingersoll-Rand Company
2720 Tobey Drive
Indianapolis, Indiana 46219
Phone: (800) 999-0408
Fax: (800) 999-0328

## PART NUMBER CHANGES

This manual reflects product sold in July 2009. Because of changes to product and/or manufacturing process, part numbers can change.

### 6000 SERIES ELECTRIC STRIKE FINISHES

| US Number | BHMA Number | Color |
|-----------|-------------|-------|
| US3 | 605 | Brass, polished |
| US4 | 606 | Brass, dull |
| US10 | 612 | Bronze, dull |
| US10B | 640 | Brass, dull (oxidized) |
| US32 | 629 | Chrome, polished |
| US32D | 630 | Chrome, dull |

**PM6000_A**

## SOLENOIDS AND SOLENOID PARTS

| Item No. | Part No. | Description | Quantity | Finish |
|----------|----------|-------------|----------|--------|
| 1 | 050237 | 6000 Series Solenoid Kit 12VDC (FS & FSE) | 1 | |
| 1 | 050239 | 6000 Series Solenoid Kit 16VDC (FS & FSE) | 1 | |
| 1 | 050240 | 6000 Series Solenoid Kit 24VDC (FS & FSE) | 1 | |
| 2 | 964037 | Solenoid Washer | 1 | |
| 3 | 968713 | Solenoid Spring | 1 | |

X in "Finish" column designates finished item; specify finish when ordering.
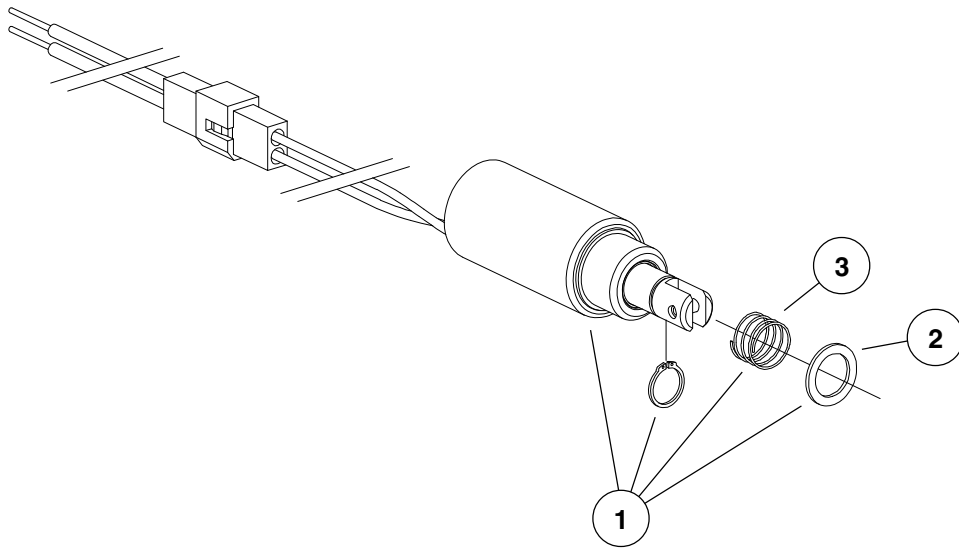
# BOX PARTS: TYPE B BOX

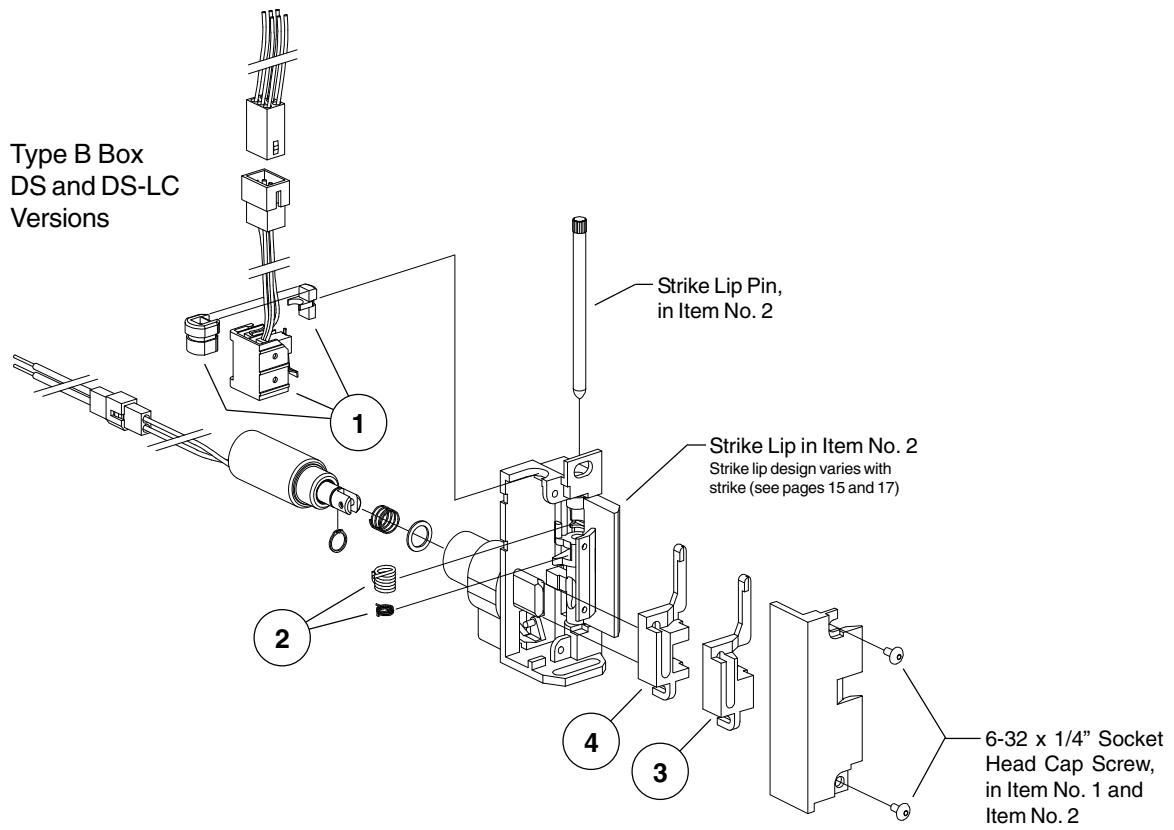| Item No. | Part No. | Description | Quantity | Finish |
|----------|----------|-------------|----------|--------|
| 1 | 050015 | 6000 DS Replacement Kit Type B | | |
| | | 6000 Switch & Mtg. Assy. | 1 | |
| | | 6-32 x 1/4" Socket Head Cap Screw | 2 | |
| | | Wire Strain Relief | 1 | |
| 1 | 050018 | 6000 DS-LC Replacement Kit Type B | | |
| | | Same parts as 050015 for DS-LC Version | | |
| 2 | 050939 | Type A or B Box Spring Kit | | |
| | | 6-32 x 1/4" Socket Head Cap Screw | 2 | |
| | | Tripper Spring | 1 | |
| | | Torsion Spring | 1 | |
| | | Strike Lip Pin | 1 | |
| | | Strike Lip | 1 | |
| 3 | 970387 | FS Slider (6211WF/6212WF/6221/6223 Only) | 1 | |
| 4 | 970388 | FSE Slider (6211WF/6212WF/6221/6223 Only) | 1 | |

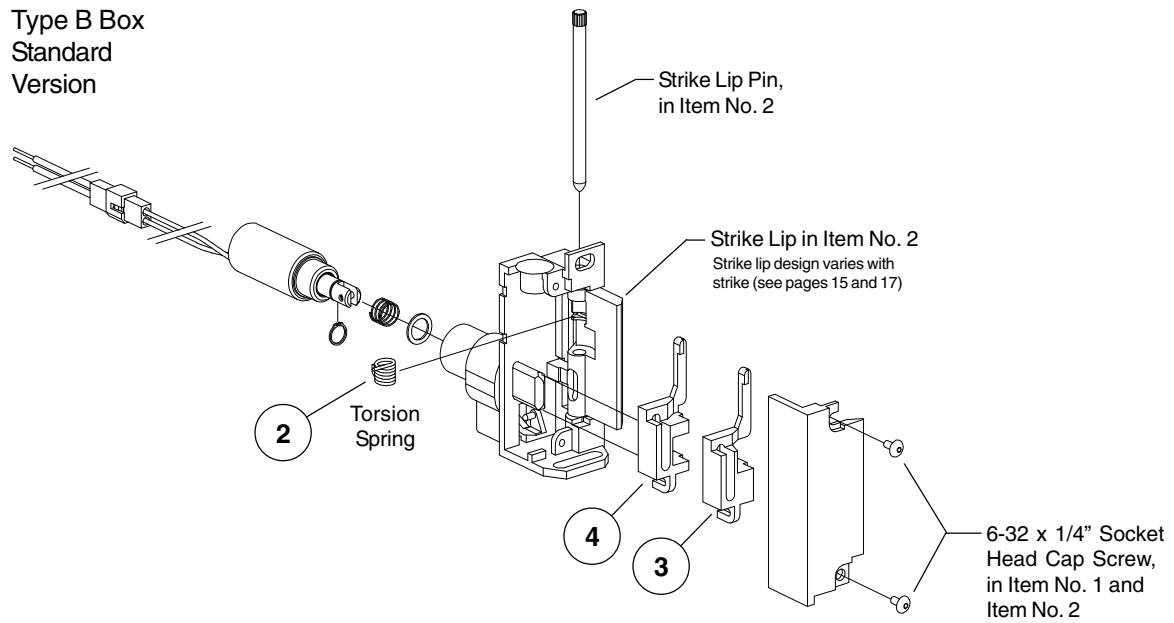X in "Finish" column designates finished item; specify finish when ordering.

Type B Box Used for:
6211WF
6212WF
6221
6223

Type B Box
DS and DS-LC
Versions

**(1)**

**(2)**

**(4)**

**(3)**

Strike Lip Pin,
in Item No. 2

Strike Lip in Item No. 2
Strike lip design varies with
strike (see pages 15 and 17)

6-32 x 1/4" Socket
Head Cap Screw,
in Item No. 1 and
Item No. 2

Type B Box
Standard
Version

**(2)** Torsion
Spring

**(4)**

**(3)**

Strike Lip Pin,
in Item No. 2

Strike Lip in Item No. 2
Strike lip design varies with
strike (see pages 15 and 17)

6-32 x 1/4" Socket
Head Cap Screw,
in Item No. 1 and
Item No. 2

**PM6000_A**

# SOLENOID AND BOX PARTS: TYPE A BOX, TYPE C BOX, OFFSET BOX

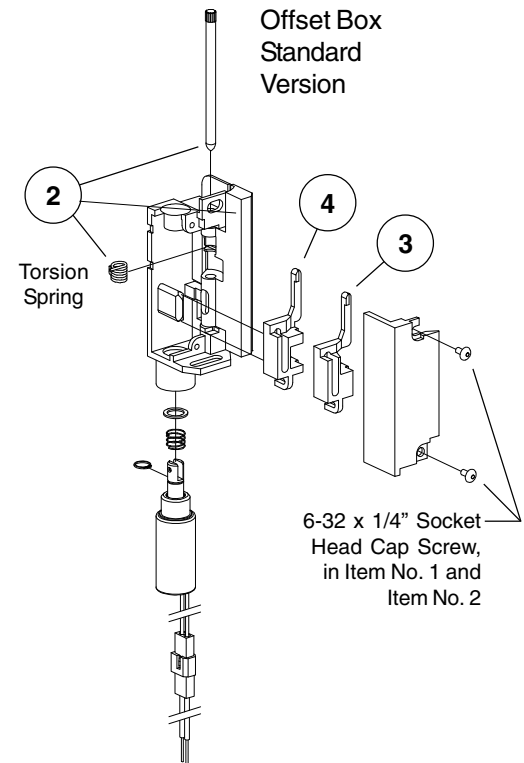| Item No. | Part No. | Description | Quantity | Finish |
|---|---|---|---|---|
| 1 | 050011 | 6000 DS Replacement Kit Type A | | |
| | | 6000 Switch & Mtg. Assy. | 1 | |
| | | 6-32 x 1/4" Socket Head Cap Screw | 2 | |
| | | Wire Strain Relief | 1 | |
| 1 | 050016 | 6000 DS-LC Replacement Kit Type A | 1 | |
| | | Same parts as 050011 for DS-LC Version | | |
| 2 | 050939 | Type A or B Box Spring Kit (includes items listed below) | | |
| | 050941 | Type C Box Spring Kit (includes items listed below) | | |
| | 050940 | Type Offset Box Spring Kit (includes items listed below) | | |
| | | 6-32 x 1/4" Socket Head Cap Screw | 2 | |
| | | Tripper Spring | 1 | |
| | | Torsion Spring | 1 | |
| | | Strike Lip Pin | 1 | |
| | | Strike Lip | 1 | |
| 3 | 970387 | FSE Slider (Except 6211WF/6212WF/6221/6223) | 1 | |
| 4 | 970388 | FS Slider (Except 6211WF/6212WF/6221/6223) | 1 | |

X in "Finish" column designates finished item; specify finish when ordering.

Type A Box Used for:

| | |
|---|---|
| 6211 | 6222 |
| 6211AL | 6224 |
| 6212 | 6224AL |
| 6214 | 6225 |
| 6215 | 6226 |

Type C Box Used for:

| | |
|---|---|
| 6111 | 6121 |
| 6112 | 6213 |
| 6113 | 6216 |

Offset Box Used for:

6210



Type A Box
DS and DS-LC
Versions

Strike lip design varies with strike (see pages 11 and 13)

6-32 x 1/4" Socket Head Cap Screw, in Item No. 1 and Item No. 2

Type A Box
Standard
Version

Torsion Spring

Strike lip design varies with strike (see pages 11 and 13)

6-32 x 1/4" Socket Head Cap Screw, in Item No. 1 and Item No. 2

**PM6000_A**

Type C Box
DS and DS-LC
Versions

Strike lip design
varies with strike (see
pages 9, 19, and 21)

2

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1

6-32 x 1/4" Socket
Head Cap Screw,
in Item No. 1 and
Item No. 2

Type C Box
Standard
Version

Strike lip design
varies with strike (see
pages 9, 19, and 21)

2

Torsion
Spring

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6-32 x 1/4" Socket
Head Cap Screw,
in Item No. 1 and
Item No. 2

Offset Box
DS and DS-LC
Versions

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6-32 x 1/4" Socket
Head Cap Screw,
in Item No. 1 and
Item No. 2

Offset Box
Standard
Version

2

Torsion
Spring

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6-32 x 1/4" Socket
Head Cap Screw,
in Item No. 1 and
Item No. 2

**PM6000_A**

## 6111, 6113, 6213

| Item No. | Part No. | Description | Quantity | Finish |
|---|---|---|---|---|
| 1 | 970271 | 6111 Faceplate | 1 | X |
| 2 | 970280 | 6113 Faceplate | 1 | X |
| 3 | 970278 | 6213 Faceplate | 1 | X |
| 4 | 900870 | 6111/6113 Screw Pkg. | | X |
| | | 12-24 x 1" Slotted Fill. HMS | 2 | |
| | | Connector-E98/99/6000 ES | 2 | |
| 5 | 900288 | 6210/11/13/14/16/22/24/25/26 Screw Pkg. | | X |
| | | 12-24 x 1/2" UFPHMS | 2 | |
| | | Connector-E98/99/6000 ES | 2 | |
| 6 | 900347 | 6113 Frame Insert Pkg. | 1 | |
| 7 | 111743 | 6111, 6113, 6213 12VDC FS Box Assy. | 1 | |
| 7 | 111744 | 6111, 6113, 6213 12VDC FSE Box Assy. | 1 | |
| 7 | 111745 | 6111, 6113, 6213 24VDC FS Box Assy. | 1 | |
| 7 | 111746 | 6111, 6113, 6213 24VDC FSE Box Assy. | 1 | |
| 8 | 111747 | 6111, 6113, 6213 12VDC FS DS Box Assy. | 1 | |
| 8 | 111748 | 6111, 6113, 6213 12VDC FSE DS Box Assy. | 1 | |
| 8 | 111749 | 6111, 6113, 6213 24VDC FS DS Box Assy. | 1 | |
| 8 | 111750 | 6111, 6113, 6213 24VDC FSE DS Box Assy. | 1 | |
| 8 | 112772 | 6111/6113/6213 12VDC FS DS-LC Box Assy. | 1 | |
| 8 | 112773 | 6111/6113/6213 12VDC FSE DS-LC Box Assy. | 1 | |
| 8 | 112774 | 6111/6113/6213 24VDC FS DS-LC Box Assy. | 1 | |
| 8 | 112775 | 6111/6113/6213 24VDC FSE DS-LC Box Assy. | 1 | |
| 9 | 964019 | #8 Ext. Tooth Lock Washer | 1 | |
| 10 | 964070 | 8-32 x 3/8" PPHMS | 1 | |
| 11 | 970384 | DS Tripper Extension | 1 | |
| 12 | 900344 | DS Tripper Extension & Connector | | |
| | | Tripper Extension | 1 | |
| | | 4-40 x 1/8" Socket Head Cap Screw | 2 | |
| | | Connector-E98/99/6000 ES | 6 | |
| 13 | 990132 | Connector-E98/99/6000 ES | 1 | |

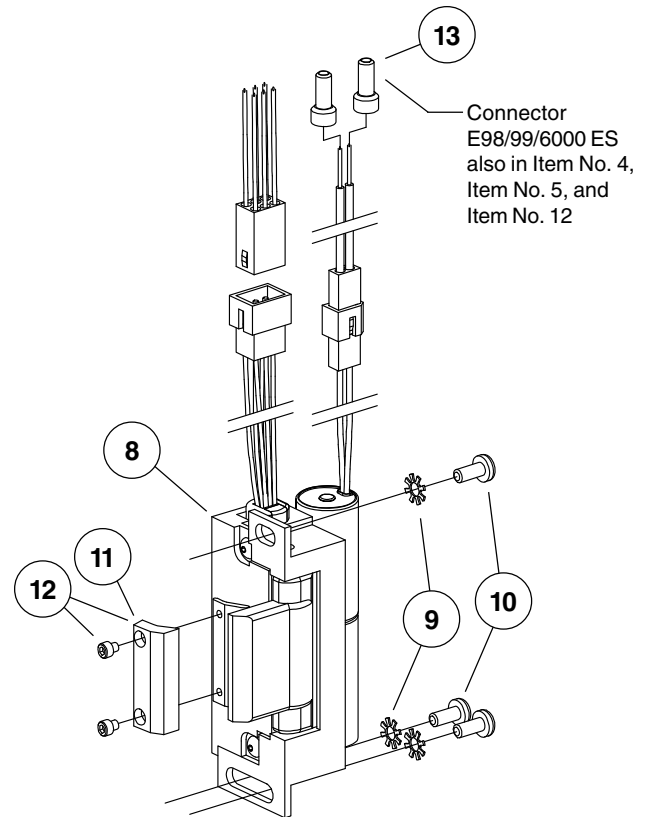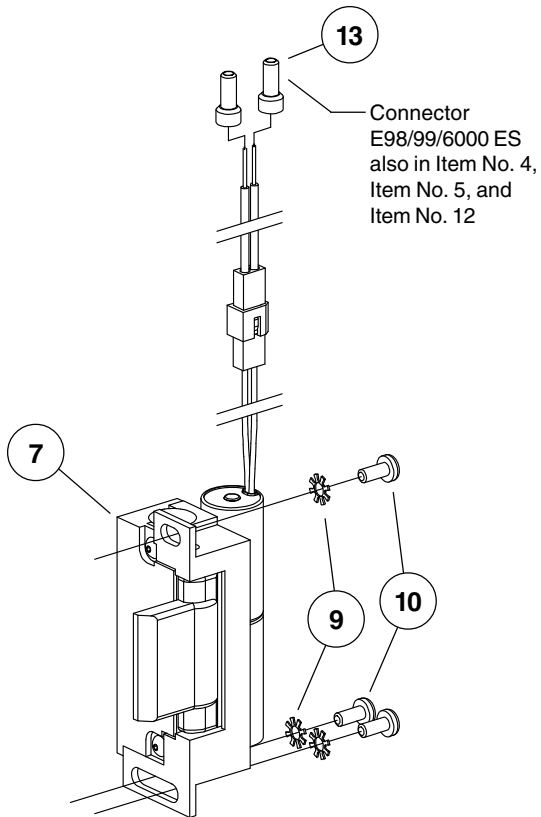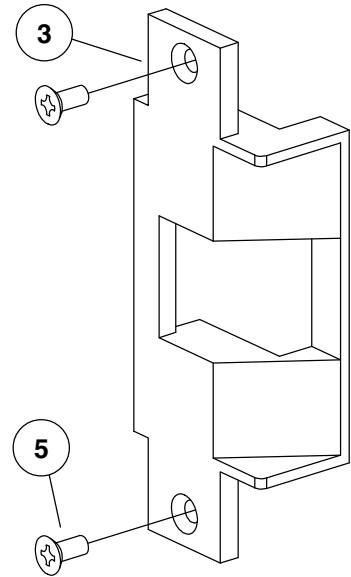X in "Finish" column designates finished item; specify finish when ordering.

**6111**

**6113**

**6213**

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Connector
E98/99/6000 ES
also in Item No. 4,
Item No. 5, and
Item No. 12

13

Connector
E98/99/6000 ES
also in Item No. 4,
Item No. 5, and
Item No. 12

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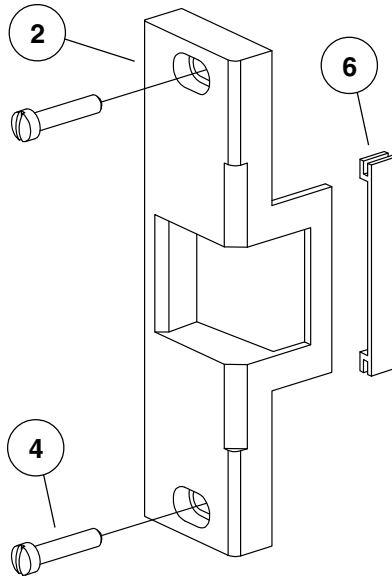
## 6114, 6214, 6215, 6222, 6224, 6224AL, 6225, 6226

| Item No. | Part No. | Description | Quantity | Finish |
|---|---|---|---|---|
| 1 | 970300 | 6114 Faceplate | 1 | X |
| 2 | 971417 | 6214 Faceplate | 1 | X |
| 3 | 971415 | 6215 Faceplate | 1 | X |
| 4 | 970305 | 6222 Faceplate | 1 | X |
| 5 | 970302 | 6224 Faceplate | 1 | X |
| 6 | 970310 | 6224AL Faceplate | 1 | X |
| 7 | 970306 | 6225 Faceplate | 1 | X |
| 8 | 970301 | 6226 Faceplate | 1 | X |
| 9 | 900882 | 6114 Screw Pkg. | | X |
| | | 10-12 x 10-24 x 2" OPHCS | 4 | |
| | | Connector-E98/99/6000 ES | 2 | |
| 10 | 900288 | 6210/11/13/14/16/22/24/25/26 Screw Pkg. | | X |
| | | 12-24 x 1/2" UFPHMS | 2 | |
| | | Connector-E98/99/6000 ES | 2 | |
| 11 | 111719 | 6114, 6214/5, 6222/4/4AL/5/6 12VDC FS Box Assy. | 1 | |
| 11 | 111720 | 6114, 6214/5, 6222/4/4AL/5/6 12VDC FSE Box Assy. | 1 | |
| 11 | 111721 | 6114, 6214/5, 6222/4/4AL/5/6 24VDC FS Box Assy. | 1 | |
| 11 | 111722 | 6114, 6214/5, 6222/4/4AL/5/6 24VDC FSE Box Assy. | 1 | |
| 12 | 111723 | 6114, 6214/5, 6222/4/4AL/5/6 12VDC FS DS Box Assy. | 1 | |
| 12 | 111724 | 6114, 6214/5, 6222/4/4AL/5/6 12VDC FSE DS Box Assy. | 1 | |
| 12 | 111725 | 6114, 6214/5, 6222/4/4AL/5/6 24VDC FS DS Box Assy. | 1 | |
| 12 | 111726 | 6114, 6214/5, 6222/4/4AL/5/6 24VDC FSE DS Box Assy. | 1 | |
| 12 | 112760 | 6114/6214/15/24/24AL/26 12VDC FS DS-LC Box Assy. | 1 | |
| 12 | 112761 | 6114/6214/15/24/24AL/26 12VDC FSE DS-LC Box Assy. | 1 | |
| 12 | 112762 | 6114/6214/15/24/24AL/26 24VDC FS DS-LC Box Assy. | 1 | |
| 12 | 112763 | 6114/6214/15/24/24AL/26 24VDC FSE DS-LC Box Assy. | 1 | |
| 13 | 964019 | #8 Ext. Tooth Lock Washer | 1 | |
| 14 | 964070 | 8-32 x 3/8" PPHMS | 1 | |
| 15 | 970384 | DS Tripper Extension | 1 | |
| 16 | 900344 | DS Tripper Extension & Connector | | |
| | | Tripper Extension | 1 | |
| | | 4-40 x 1/8" Socket Head Cap Screw | 2 | |
| | | Connector-E98/99/6000 ES | 6 | |
| 17 | 990132 | Connector-E98/99/6000 ES | 1 | |

X in "Finish" column designates finished item; specify finish when ordering.
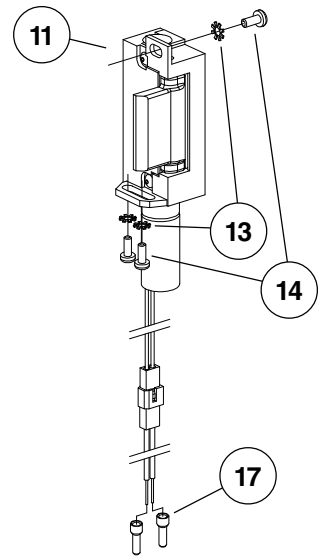
PM6000_A

6114
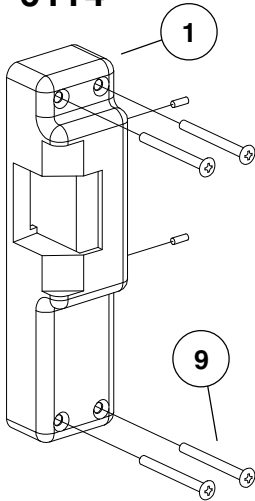
6214
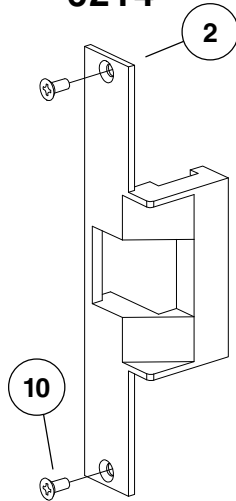
6215

6222

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6224AL

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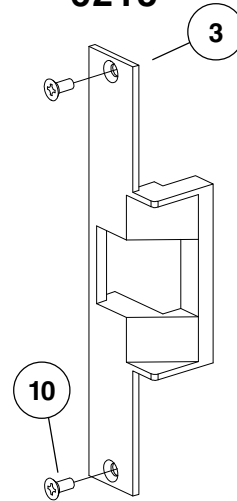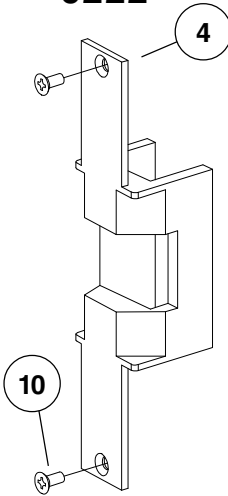Connector
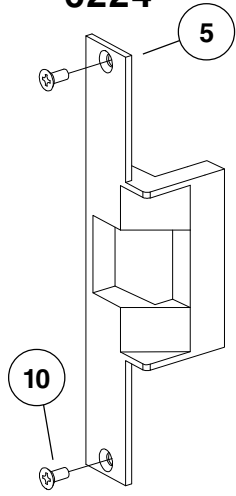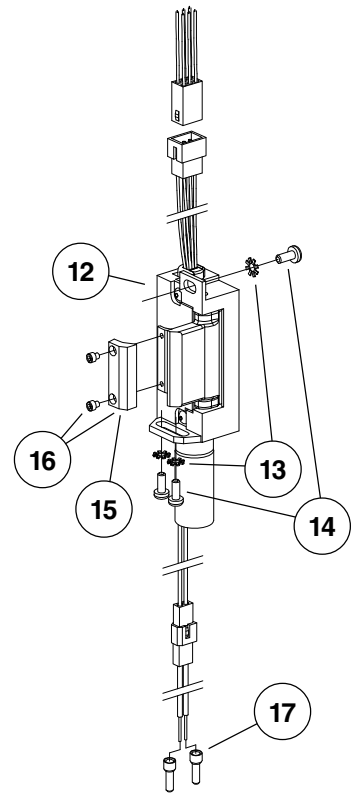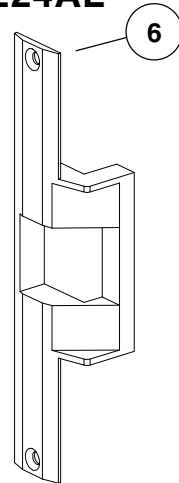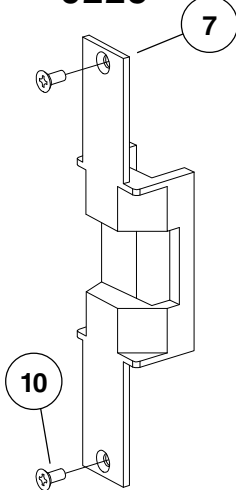E98/99/6000 ES
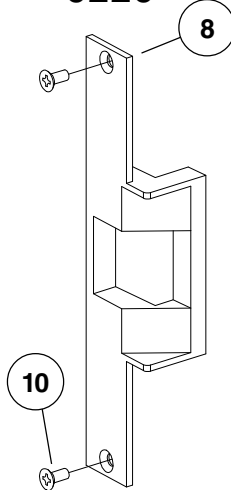also in Item No. 9,
Item No. 10, and
Item No. 16

Connector
E98/99/6000 ES
also in Item No. 9,
Item No. 10, and
Item No. 16

## 6211, 6211AL, 6212

| Item No. | Part No. | Description | Quantity | Finish |
|---|---|---|---|---|
| 1 | 968716 | 6211/6211WF Faceplate | 1 | X |
| 2 | 970272 | 6211AL Faceplate | 1 | X |
| 3 | 969584 | 6212/6212WF Faceplate | 1 | X |
| 4 | 900288 | 6210/11/13/14/16/22/24/25/26 Screw Pkg. | | X |
| | | 12-24 x 1/2" UFPHMS | 2 | |
| | | Connector-E98/99/6000 ES | 2 | |
| 5 | 900290 | 6212 Screw Package | | X |
| | | 12-24 x 1/2 UFPHMS | 4 | |
| | | Connector-E98/99/6000 ES | 2 | |
| 6 | 900291 | 6211/6212WF Strike Pocket Insert | | |
| 7 | 900292 | 6212 Strike Pocket Insert/Mounting Tab | | |
| 8 | 111711 | 6211, 6211AL, 6212 12VDC FS Box Assy. | 1 | |
| 8 | 111712 | 6211, 6211AL, 6212 12VDC FSE Box Assy. | 1 | |
| 8 | 111713 | 6211, 6211AL, 6212 24VDC FS Box Assy. | 1 | |
| 8 | 111714 | 6211, 6211AL, 6212 24VDC FSE Box Assy. | 1 | |
| 9 | 111715 | 6211, 6211AL, 6212 12VDC FS DS Box Assy. | 1 | |
| 9 | 111716 | 6211, 6211AL, 6212 12VDC FSE DS Box Assy. | 1 | |
| 9 | 111717 | 6211, 6211AL, 6212 24VDC FS DS Box Assy. | 1 | |
| 9 | 111718 | 6211, 6211AL, 6212 24VDC FSE DS Box Assy. | 1 | |
| 9 | 112756 | 6211/6211AL/6212 12VDC FS DS-LC Box Assy. | 1 | |
| 9 | 112757 | 6211/6211AL/6212 12VDC FSE DS-LC Box Assy. | 1 | |
| 9 | 112758 | 6211/6211AL/6212 24VDC FS DS-LC Box Assy. | 1 | |
| 9 | 112759 | 6211/6211AL/6212 24VDC FSE DS-LC Box Assy. | 1 | |
| 10 | 964019 | #8 Ext. Tooth Lock Washer | 1 | |
| 11 | 964070 | 8-32 x 3/8" PPHMS | 1 | |
| 12 | 970384 | DS Tripper Extension | 1 | |
| 13 | 900344 | DS Tripper Extension & Connector | | |
| | | Tripper Extension | 1 | |
| | | 4-40 x 1/8" Socket Head Cap Screw | 2 | |
| | | Connector-E98/99/6000 ES | 6 | |
| 14 | 990132 | Connector-E98/99/6000 ES | 1 | |

X in "Finish" column designates finished item; specify finish when ordering.

**6211**

**6211AL**

**6212**

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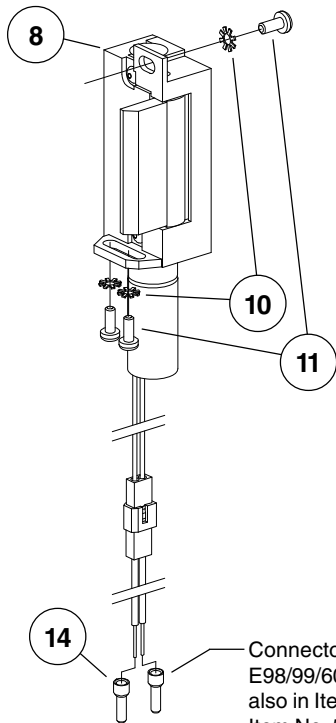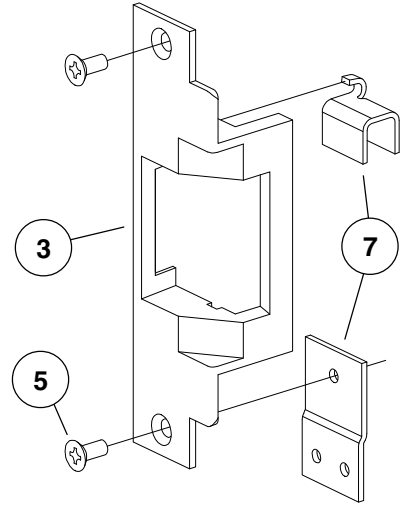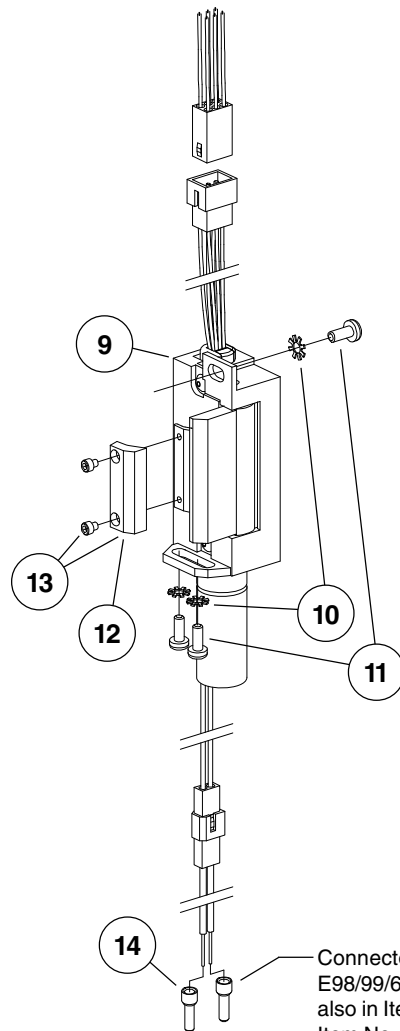
14

14
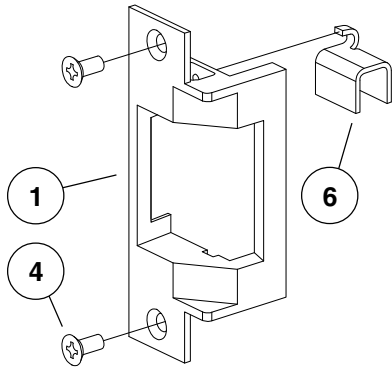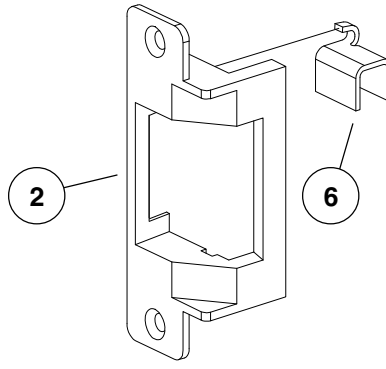
Connector
E98/99/6000 ES
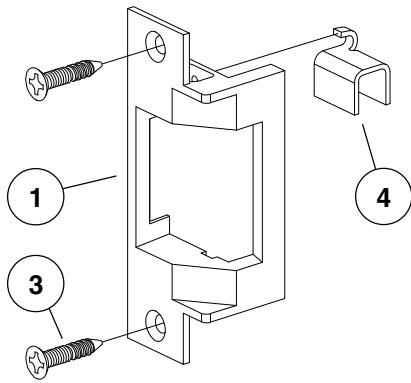also in Item No. 4,
Item No. 5, and
Item No. 13

Connector
E98/99/6000 ES
also in Item No. 4,
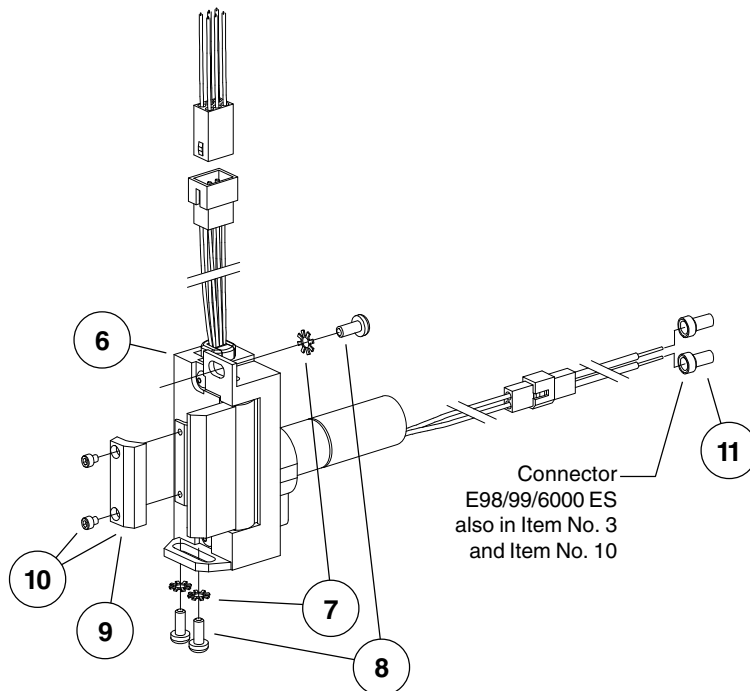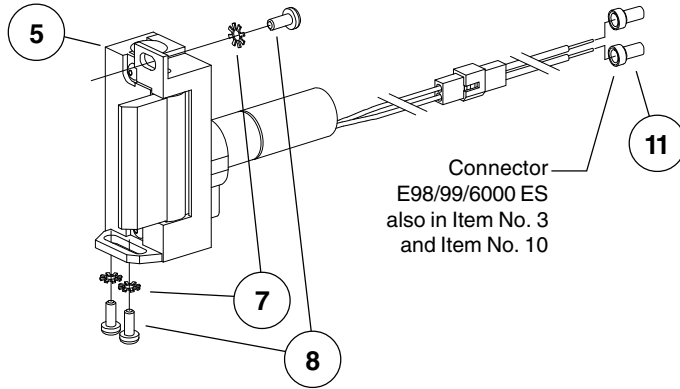Item No. 5, and
Item No. 13

## 6211WF, 6212WF

| Item No. | Part No. | Description | Quantity | Finish |
|---|---|---|---|---|
| 1 | 968716 | 6211/6211WFFaceplate | 1 | X |
| 2 | 970271 | 6212/6212WF Faceplate | 1 | X |
| 3 | 900885 | 6211WF/6212WF/6221/6223 Screw Pkg. | | X |
| | | 12-12 x 12-24 x 1" UFPHCS | 2 | |
| | | Connector-E98/99/6000 ES | 2 | |
| 4 | 900291 | 6211/6212WF Strike Pocket Insert | | |
| 5 | 111727 | 6211WF, 6212WF 12VDC FS Box Assy. | 1 | |
| 5 | 111728 | 6211WF, 6212WF 12VDC FSE Box Assy. | 1 | |
| 5 | 111729 | 6211WF, 6212WF 24VDC FS Box Assy. | 1 | |
| 5 | 111730 | 6211WF, 6212WF 24VDC FSE Box Assy. | 1 | |
| 6 | 111731 | 6211WF, 6212WF 12VDC FS DS Box Assy. | 1 | |
| 6 | 111732 | 6211WF, 6212WF 12VDC FSE DS Box Assy. | 1 | |
| 6 | 111733 | 6211WF, 6212WF 24VDC FS DS Box Assy. | 1 | |
| 6 | 111734 | 6211WF, 6212WF 24VDC FSE DS Box Assy. | 1 | |
| 6 | 112764 | 6211WF/6212WF 12VDC FS DS-LC Box Assy. | 1 | |
| 6 | 112765 | 6211WF/6212WF 12VDC FSE DS-LC Box Assy. | 1 | |
| 6 | 112766 | 6211WF/6212WF 24VDC FS DS-LC Box Assy. | 1 | |
| 6 | 112767 | 6211WF/6212WF 24VDC FSE DS-LC Box Assy. | 1 | |
| 7 | 964019 | #8 Ext. Tooth Lock Washer | 1 | |
| 8 | 964070 | 8-32 x 3/8" PPHMS | 1 | |
| 9 | 970384 | DS Tripper Extension | 1 | |
| 10 | 900344 | DS Tripper Extension & Connector | | |
| | | Tripper Extension | 1 | |
| | | 4-40 x 1/8" Socket Head Cap Screw | 2 | |
| | | Connector-E98/99/6000 ES | 6 | |
| 11 | 990132 | Connector-E98/99/6000 ES | 1 | |

X in "Finish" column designates finished item; specify finish when ordering.

**6211WF**

**6212WF**

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Connector
E98/99/6000 ES
also in Item No. 3
and Item No. 10

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Connector
E98/99/6000 ES
also in Item No. 3
and Item No. 10

**PM6000_A**
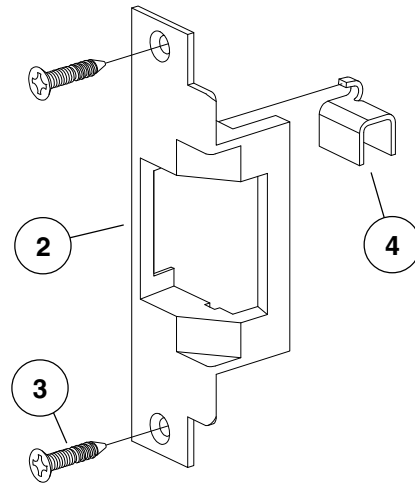
| Item No. | Part No. | Description | Quantity | Finish |
|----------|----------|-------------|----------|--------|
| 1 | 970276 | 6221 Faceplate | 1 | X |
| 2 | 970274 | 6223 Faceplate | 1 | X |
| 3 | 900885 | 6211WF/6212WF/6221/6223 Screw Pkg. | | X |
| | | 12-12 x 12-24 x 1" UFPHCS | 2 | |
| | | Connector-E98/99/6000 ES | 2 | |
| 4 | 111735 | 6221, 6223 12VDC FS Box Assy. | 1 | |
| 4 | 111736 | 6221, 6223 12VDC FSE Box Assy. | 1 | |
| 4 | 111737 | 6221, 6223 24VDC FS Box Assy. | 1 | |
| 4 | 111738 | 6221, 6223 24VDC FSE Box Assy. | 1 | |
| 4 | 111739 | 6223 12VDC FS DS Box Assy. | 1 | |
| 4 | 111740 | 6223 12VDC FSE DS Box Assy. | 1 | |
| 4 | 111741 | 6223 24VDC FS DS Box Assy. | 1 | |
| 4 | 111742 | 6223 24VDC FSE DS Box Assy. | 1 | |
| 5 | 112768 | 6223 12VDC FS DS-LC Box Assy. | 1 | |
| 5 | 112769 | 6223 12VDC FSE DS-LC Box Assy. | 1 | |
| 5 | 112770 | 6223 24VDC FS DS-LC Box Assy. | 1 | |
| 5 | 112771 | 6223 24VDC FSE DS-LC Box Assy. | 1 | |
| 6 | 964019 | #8 Ext. Tooth Lock Washer | 1 | |
| 7 | 964070 | 8-32 x 3/8" PPHMS | 1 | |
| 8 | 970384 | DS Tripper Extension | 1 | |
| 9 | 900344 | DS Tripper Extension & Connector | | |
| | | Tripper Extension | 1 | |
| | | 4-40 x 1/8" Socket Head Cap Screw | 2 | |
| | | Connector-E98/99/6000 ES | 6 | |
| 10 | 990132 | Connector-E98/99/6000 ES | 1 | |

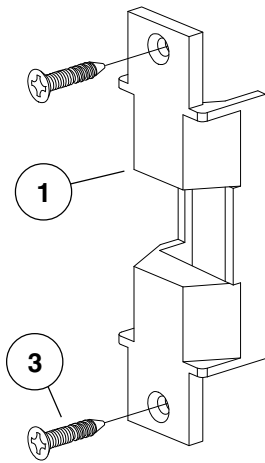X in "Finish" column designates finished item; specify finish when ordering.
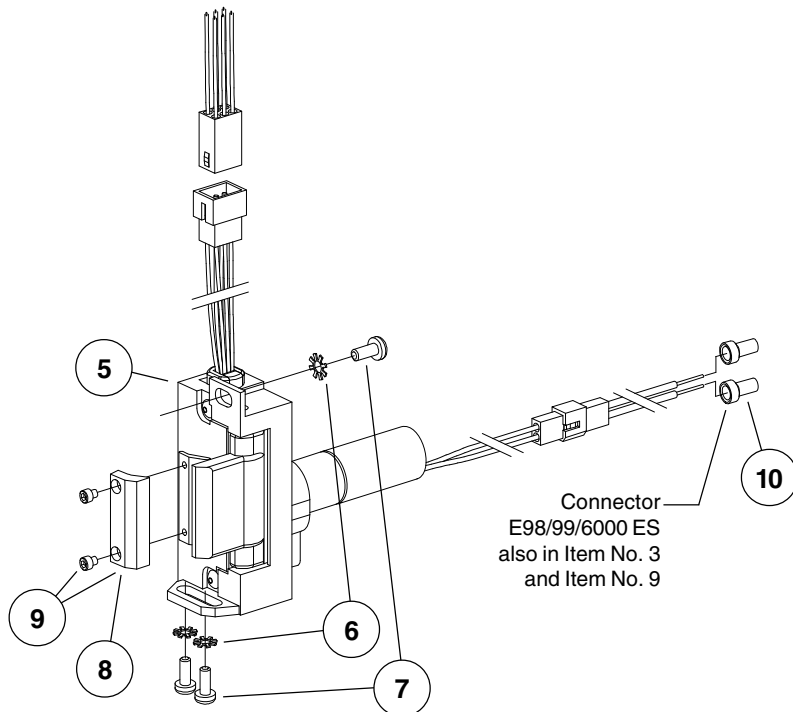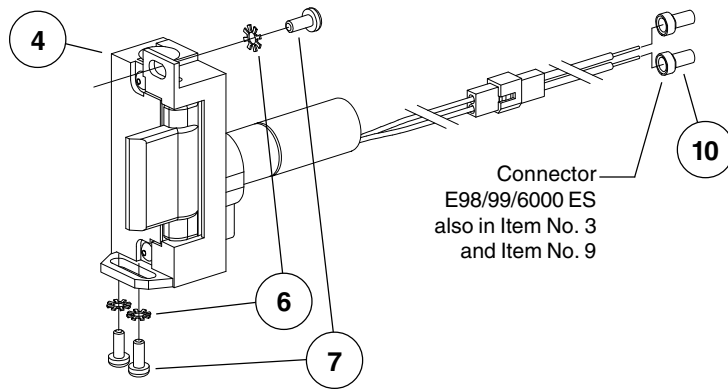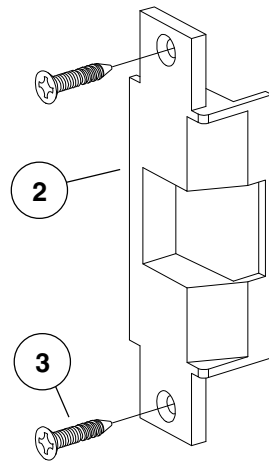
**6221**

**6223**

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Connector
E98/99/6000 ES
also in Item No. 3
and Item No. 9

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Connector
E98/99/6000 ES
also in Item No. 3
and Item No. 9

| Item No. | Part No. | Description | Quantity | Finish |
|---|---|---|---|---|
| 1 | 970303 | 6112/6121 Faceplate | 1 | X |
| 2 | 900881 | 6112/6121 Screw Pkg. | | X |
| | | 1/4-20 x 5/8" Slot Fill HMS | 2 | |
| | | Connector-E98/99/6000 ES | 2 | |
| 3 | 111751 | 6112, 6121 12VDC FS Box Assy. | 1 | |
| 3 | 111752 | 6112, 6121 12VDC FSE Box Assy. | 1 | |
| 3 | 111753 | 6112, 6121 24VDC FS Box Assy. | 1 | |
| 3 | 111754 | 6112, 6121 24VDC FSE Box Assy. | 1 | |
| 4 | 111755 | 6112, 6121 12VDC FS DS Box Assy. | 1 | |
| 4 | 111756 | 6112, 6121 12VDC FSE DS Box Assy. | 1 | |
| 4 | 111757 | 6112, 6121 24VDC FS DS Box Assy. | 1 | |
| 4 | 111758 | 6112, 6121 24VDC FSE DS Box Assy. | 1 | |
| 4 | 112776 | 6112/6121 12VDC FS DS-LC Box Assy. | 1 | |
| 4 | 112777 | 6112/6121 12VDC FSE DS-LC Box Assy. | 1 | |
| 4 | 112778 | 6112/6121 24VDC FS DS-LC Box Assy. | 1 | |
| 4 | 112779 | 6112/6121 24VDC FSE DS-LC Box Assy. | 1 | |
| 5 | 964019 | #8 Ext. Tooth Lock Washer | 1 | |
| 6 | 964070 | 8-32 x 3/8" PPHMS | 1 | |
| 7 | 970412 | 6121 Housing Cover | 1 | X |
| 8 | 970384 | DS Tripper Extension | 1 | |
| 9 | 900344 | DS Tripper Extension & Connector | | |
| | | Tripper Extension | 1 | |
| | | 4-40 x 1/8" Socket Head Cap Screw | 2 | |
| | | Connector-E98/99/6000 ES | 6 | |
| 10 | 990132 | Connector-E98/99/6000 ES | 1 | |

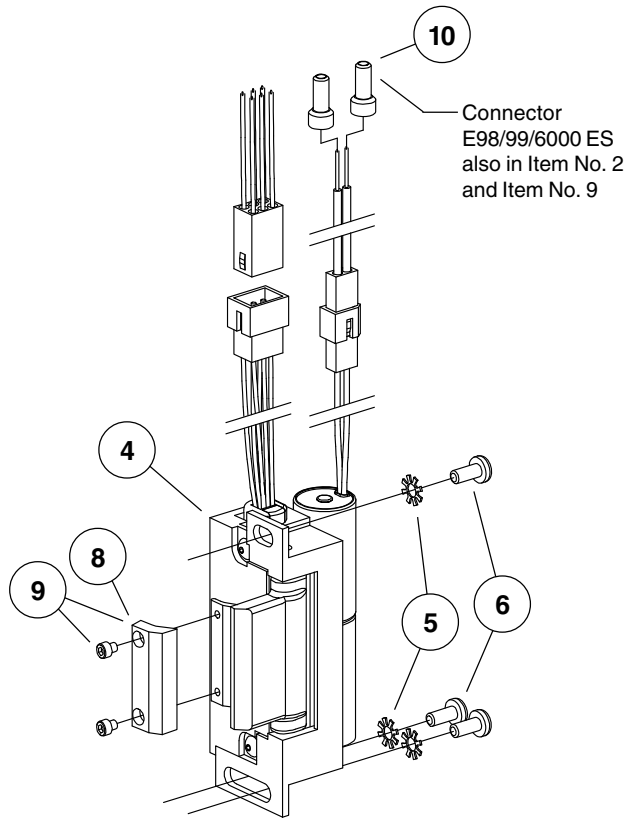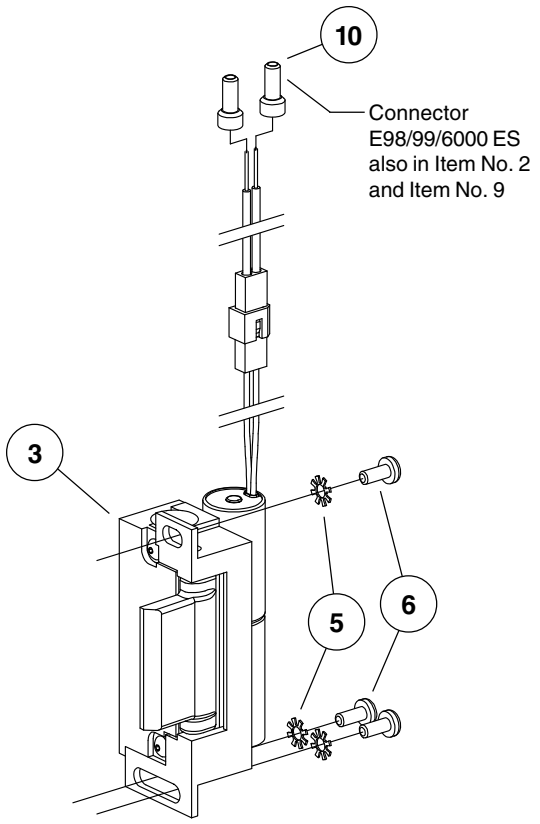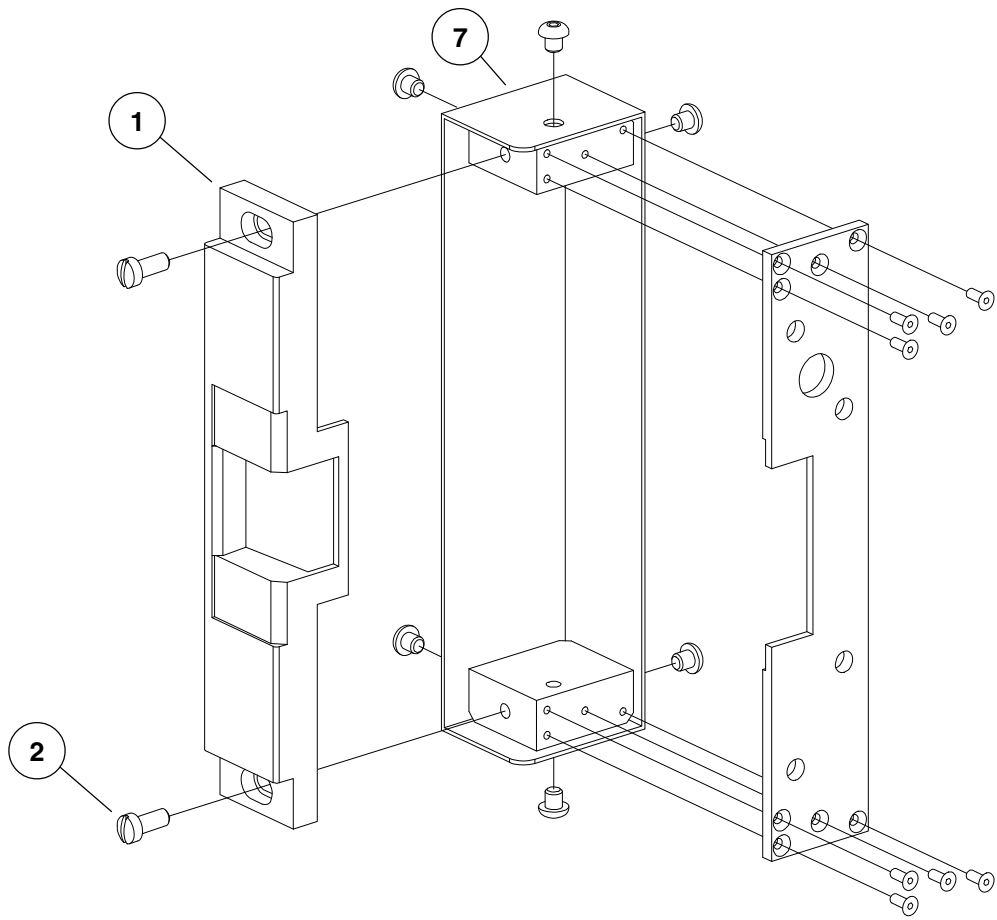X in "Finish" column designates finished item; specify finish when ordering.

Connector
E98/99/6000 ES
also in Item No. 2
and Item No. 9

Connector
E98/99/6000 ES
also in Item No. 2
and Item No. 9

**PM6000_A**

## 6216

| Item No. | Part No. | Description | Quantity | Finish |
|---|---|---|---|---|
| 1 | 971385 | 6216 Faceplate Less Inserts | 1 | X |
| 2 | 970407 | 6216 Large Faceplate Insert | 1 | X |
| 3 | 970415 | 6216 Small Faceplate Insert | 1 | X |
| 4 | 900288 | 6210/11/13/14/16/22/24/25/26 Screw Pkg. | | X |
| | | 12-24 x 1/2" UFPHMS | 2 | |
| | | Connector-E98/99/6000 ES | 2 | |
| 5 | 900345 | 6216 Inserts and Screw Pkg. | | X |
| | | 6-32 x 3/8" PPHMS | 2 | |
| | | 6216 Large Faceplate Insert | 1 | |
| | | 6216 Small Faceplate Insert | 1 | |
| 6 | 964190 | 6-32 x 3/8" PPHMS | 1 | |
| 7 | 111759 | 6216 12VDC FS Box Assy. | 1 | |
| 7 | 111760 | 6216 12VDC FSE Box Assy. | 1 | |
| 7 | 111761 | 6216 24VDC FS Box Assy. | 1 | |
| 7 | 111762 | 6216 24VDC FSE Box Assy. | 1 | |
| 8 | 111763 | 6216 12VDC FS DS Box Assy. | 1 | |
| 8 | 111764 | 6216 12VDC FSE DS Box Assy. | 1 | |
| 8 | 111765 | 6216 24VDC FS DS Box Assy. | 1 | |
| 8 | 111766 | 6216 24VDC FSE DS Box Assy. | 1 | |
| 8 | 112780 | 6216 12VDC FS DS-LC Box Assy. | 1 | |
| 8 | 112781 | 6216 12VDC FSE DS-LC Box Assy. | 1 | |
| 8 | 112782 | 6216 24VDC FS DS-LC Box Assy. | 1 | |
| 8 | 112783 | 6216 24VDC FSE DS-LC Box Assy. | 1 | |
| 9 | 964019 | #8 Ext. Tooth Lock Washer | 1 | |
| 10 | 964070 | 8-32 x 3/8" PPHMS | 1 | |
| 11 | 970384 | DS Tripper Extension | 1 | |
| 12 | 900344 | DS Tripper Extension & Connector | | |
| | | Tripper Extension | 1 | |
| | | 4-40 x 1/8" Socket Head Cap Screw | 2 | |
| | | Connector-E98/99/6000 ES | 6 | |
| 13 | 990132 | Connector-E98/99/6000 ES | 1 | |

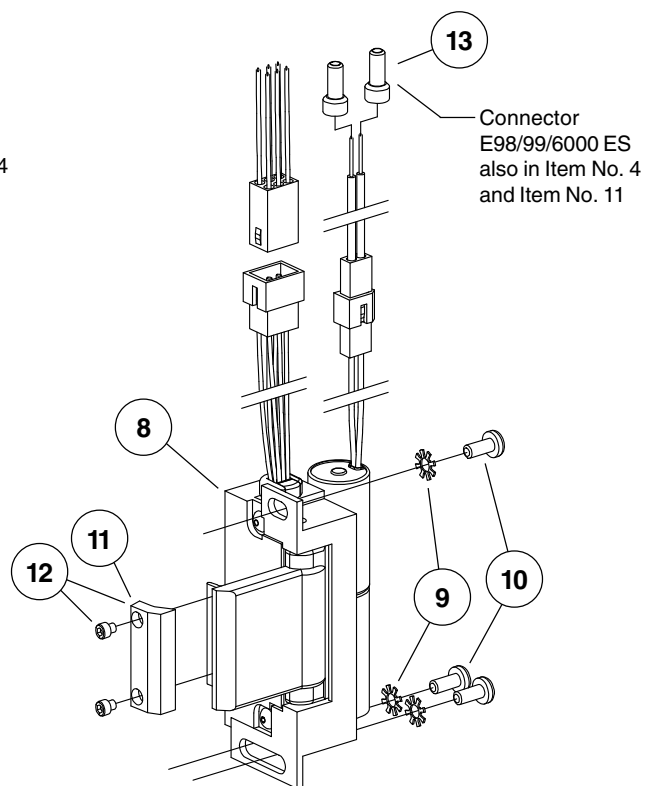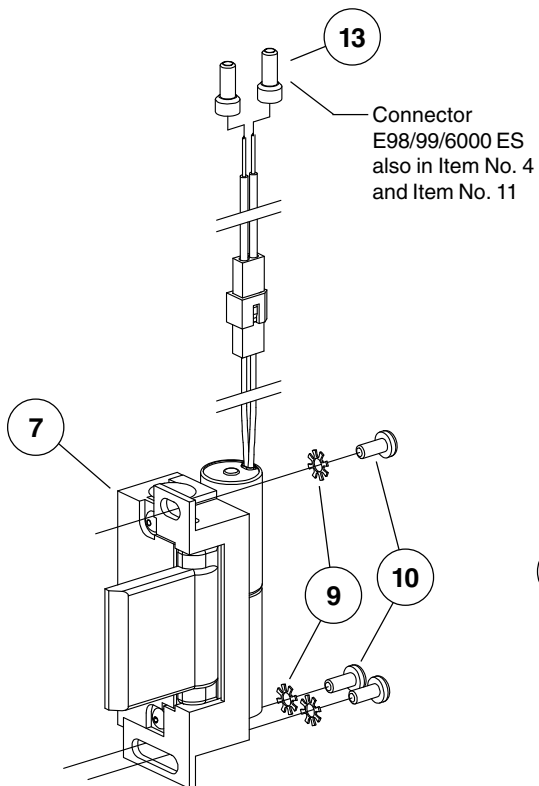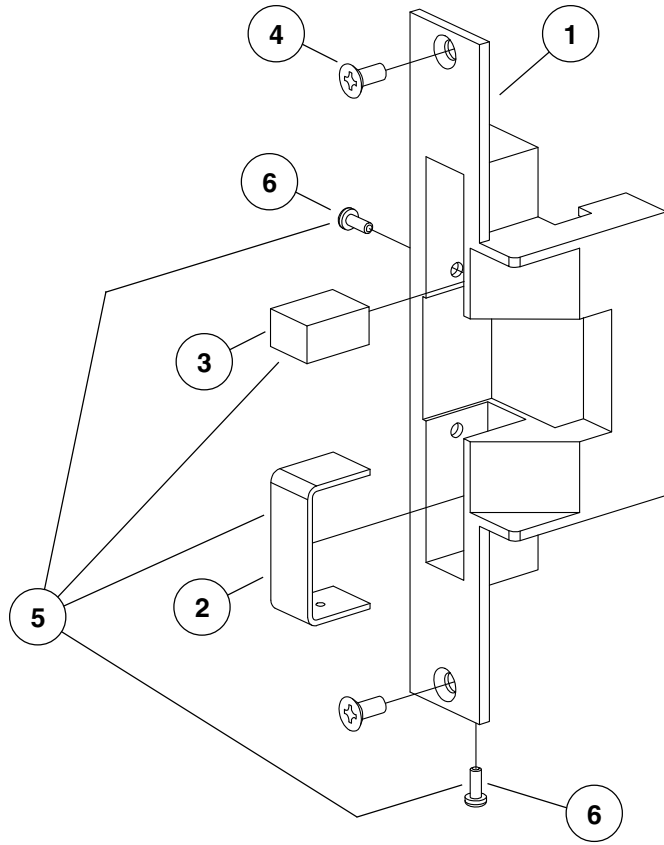X in "Finish" column designates finished item; specify finish when ordering.

964070   8-32 x 3/8" PPHMS

**PM6000_A**

Connector
E98/99/6000 ES
also in Item No. 4
and Item No. 11

Connector
E98/99/6000 ES
also in Item No. 4
and Item No. 11

**PM6000_A**

## 6210

| Item No. | Part No. | Description | Quantity | Finish |
|---|---|---|---|---|
| 1 | 971198 | 6210 Faceplate | 1 | X |
| 2 | 900288 | 6210/11/13/14/16/22/24/25/26 Screw Pkg. | | X |
| | | 12-24 x 1/2" UFPHMS | 2 | |
| | | Connector-E98/99/6000 ES | 2 | |
| 3 | 900584 | 6210 Auxiliary Bolt Plate Pkg. | | |
| | | Aux. Bolt Plate - Schlage | 1 | |
| | | Aux. Bolt Plate - Std. | 1 | |
| | | Aux. Bolt Plate - Short | 1 | |
| 4 | 900966 | 6210 Strike Pocket Insert Mounting Pkg. | | |
| | | 6-32 x 1/4" FPHMS | 2 | |
| 5 | 111244 | 6210 12VDC FS Box Assy. | 1 | |
| 5 | 111246 | 6210 12VDC FSE Box Assy. | 1 | |
| 5 | 111247 | 6210 24VDC FS Box Assy. | 1 | |
| 5 | 111250 | 6210 24VDC FSE Box Assy. | 1 | |
| 6 | 111251 | 6210 12VDC FS DS Box Assy. | 1 | |
| 6 | 111264 | 6210 12VDC FSE DS Box Assy. | 1 | |
| 6 | 111813 | 6216 24VDC FS DS Box Assy. | 1 | |
| 6 | 111814 | 6216 24VDC FSE DS Box Assy. | 1 | |
| 6 | 112754 | 6210 12VDC FS DS-LC Box Assy. | 1 | |
| 6 | 112755 | 6210 12VDC FSE DS-LC Box Assy. | 1 | |
| 6 | 112784 | 6210 24VDC FS DS-LC Box Assy. | 1 | |
| 6 | 112785 | 6210 24VDC FSE DS-LC Box Assy. | 1 | |
| 7 | 964019 | #8 Ext. Tooth Lock Washer | 1 | |
| 8 | 970384 | DS Tripper Extension | 1 | |
| 9 | 900344 | DS Tripper Extension & Connector | | |
| | | Tripper Extension | 1 | |
| | | 4-40 x 1/8" Socket Head Cap Screw | 2 | |
| | | Connector-E98/99/6000 ES | 6 | |
| 10 | 990132 | Connector-E98/99/6000 ES | 1 | |

X in "Finish" column designates finished item; specify finish when ordering.

Connector
E98/99/6000 ES
also in Item No. 2
and Item No. 9

Connector
E98/99/6000 ES
also in Item No. 2
and Item No. 9

**PM6000_A**