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Engineered for value and performance

Von Duprin® empowers its customers to embrace change by providing flexible solutions that can be modified over time, protecting your investment well into the future. Von Duprin 98/99 Series push pad devices have a universal center case design that is unique to the industry and provides superior flexibility—from adding trim, switching handing or adding new retrofit options, you can configure numerous variations in the field without replacing your device.

Von Duprin’s exit devices offer durable solutions that are proven in the field to perform under heavy use and abuse and backed by a team of experts experienced in door hardware application and code compliance. Allegion stands behind every Von Duprin product we make with unparalleled customer support thanks to our team of experts based in the U.S. that average more than 15 years of experience, so you are assured to receive expert advice.

Von Duprin exit devices are available in two external surface styles, designated 98 and 99 Series.

Latch bolt
Deadlocking latch bolt provides security and improved performance at standard device cost.

The Quiet One®
A fluid damper decelerates the push pad on its return stroke and eliminates most noise associated with exit device operations. Furnished on all 98/99™ Series exit devices.
### How to order

**Nomenclature – how to order**

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Device series/type</th>
<th>Trim/ rating</th>
<th>Finish</th>
<th>Suffix/</th>
<th>Door width</th>
<th>Handing</th>
<th>Less bottom rod/cable</th>
<th>Trim options/</th>
<th>Lever style</th>
<th>Accessories</th>
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### Detail

#### 1 Prefixes

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<tr>
<td>LD</td>
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<td>LX</td>
<td>Latch bolt monitoring</td>
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<td>LX-LC</td>
<td>Latch bolt monitoring, low current</td>
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<tr>
<td>LX-RX</td>
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<td>Quiet electric latch retraction</td>
</tr>
<tr>
<td>QM</td>
<td>Quiet mechanical</td>
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<td>RX</td>
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<tr>
<td>RX-LC</td>
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<td>WP-RX</td>
<td>Waterproof request to exit</td>
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<td>WS</td>
<td>Windstorm (FEMA rated) surface vertical rod device</td>
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<tr>
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<td>Heavy protection - rim</td>
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#### 2 Device series

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<th>Series</th>
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<td>98</td>
<td>Series 98-smooth</td>
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<tr>
<td>99</td>
<td>Series 99-grooved</td>
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</tbody>
</table>

#### 3 Device type

| None   | Rim device |
| 27     | Surface mounted vertical rod device |
| 47     | Concealed vertical rod device |
| 47WDC  | Concealed vertical rod wood device |
| 48     | Concealed vertical rod device |
| 49     | Concealed vertical cable device |
| 50WDC  | Concealed vertical cable wood device |
| 52     | Rim device with remote trim input (pool exit hardware) |
| 57     | Three-point latch device |
| 75     | Mortise lock device |

#### 4 Trim functions

<table>
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<th>Function</th>
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<td>EO</td>
<td>For AD or CO locks, order the panic as Exit Only (EO)</td>
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<td>DT</td>
<td>Dummy trim</td>
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<tr>
<td>EO</td>
<td>Exit only</td>
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<td>HL</td>
<td>Hospital pull trim</td>
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<tr>
<td>K</td>
<td>Knob</td>
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<tr>
<td>K-BE</td>
<td>Knob - blank escutcheon</td>
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<tr>
<td>K-DT</td>
<td>Knob, rigid - dummy trim</td>
</tr>
<tr>
<td>K-NL</td>
<td>Knob, rigid - night latch</td>
</tr>
<tr>
<td>L</td>
<td>Lever (classroom)</td>
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<tr>
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<tr>
<td>L-DT</td>
<td>Lever, rigid - dummy trim</td>
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<tr>
<td>L-NL</td>
<td>Lever, rigid - night latch</td>
</tr>
<tr>
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<td>Night latch</td>
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<td>Night latch cylinder assembly, optional pull</td>
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<tr>
<td>-2SI</td>
<td>Double cylinder with security indicator (rim only)</td>
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<tr>
<td>CON</td>
<td>Connectors</td>
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<td>WH</td>
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<tr>
<td>606</td>
<td>Satin Brass</td>
</tr>
<tr>
<td>612</td>
<td>Satin Nickel</td>
</tr>
<tr>
<td>622/711</td>
<td>Matte Black/Matte Black, Anodized</td>
</tr>
<tr>
<td>625</td>
<td>Bright Chrome</td>
</tr>
<tr>
<td>626</td>
<td>Satin Chrome</td>
</tr>
<tr>
<td>626AM</td>
<td>Satin Chrome, Antimicrobial</td>
</tr>
<tr>
<td>628</td>
<td>Aluminum, Anodized</td>
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<tr>
<td>630</td>
<td>Satin Stainless</td>
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<td>630AM</td>
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<td>643e</td>
<td>Aged Bronze</td>
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#### 8 Door width

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#### 10 Less bottom rod/cable

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<td>Less bottom latch</td>
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<tr>
<td>LBL-AFL</td>
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#### 11 Trim options/finish

See trim options/finish for each device type

#### 12 Lever style

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<tr>
<td>GBK</td>
<td>Glass bead kit</td>
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<td>SEC</td>
<td>Security screws</td>
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<td>SNB</td>
<td>Sex bolts</td>
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#### 14 Other information

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<tr>
<td>Touchbar options</td>
<td>BRAILLE Vision impaired touchpad, raised letter, and braille</td>
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<td></td>
<td>PUSH Touchbar trim embossed 'PUSH'</td>
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<tr>
<td></td>
<td>RSS Red silk-screened lettered touchbar trim</td>
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<td></td>
<td>KN Knurled touchbar</td>
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<td>SG Safety glow</td>
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### Miscellaneous

| CE | CE labeled |
| LCP | Less cover plate |
| IOWDA | #IOWDA cover plate |
| RAT REL | Ratchet release assy |

#### Door material

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<td>Hollow metal</td>
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<td>WD</td>
<td>Wood door</td>
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<td>Composite door</td>
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#### Door application

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<tr>
<td>P</td>
<td>Pair of doors</td>
</tr>
<tr>
<td>S</td>
<td>Single door</td>
</tr>
</tbody>
</table>

---

Note: Not all options are listed. See the specific device type pages for complete options available.
As the pioneer in the industry, Von Duprin continues to advance the industry through customer-centric innovation, which delivers solutions to the most challenging applications.

Backed by high quality standards, Von Duprin exit devices were among the first in the industry certified to ANSI/BHMA A156.3 (2014) Grade 1. Our exit devices are tested to the highest standards and proven in the field to perform under heavy use and abuse, giving you peace of mind both now and in the future.

The versatile design can be easily upgraded to connect to a larger electronic ecosystem, empowering you to adapt with flexible solutions. You can configure numerous variations in the field without replacing your device and protecting your investment. This makes upgrades easy and cost effective.

**Popular applications**

**Single door applications**
- Single mortise lock device
- Single rim device
- Single three-point latch device

**Double door applications**
- Mortise lock and surface mounted or concealed vertical cable/rod device combination—same direction
- Two rim devices with mullion—same direction
- Two vertical rods—double egress

**Door handing**
- Left hand-reverse orientation
- Right hand-reverse orientation

* Do not use with overlapping astragals

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Device types

Introduction

How to order

Device Types

Trim options

Mechanical options

Electrified options

Accessories

Additional Information
98/99 Rim exit device

98 and 99 rim exit devices for all types of single and double doors with mullion, UL listed for panic exit hardware. Devices are certified to ANSI/BHMA A156.3 2014, Grade 1. The 98 device has a smooth mechanism case and the 99 device has a grooved case. The rim device is non-handed except when the following device options are used: SD (special dogging), -2 (double cylinder) or SS (signal switch). Covers stock hollow metal doors with 86 or 161 cutouts on single doors (may cover cutouts on pairs – consult template).

**Specifications**

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO/DT/NL: Field selectable: For TP, K or L remove NL drive screw from device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device lengths</td>
<td>3’ 2½” to 3’ (711mm to 914mm) Door size 4’ 2½” to 4’ (864mm to 1219mm) Door size</td>
</tr>
<tr>
<td>Device centerline from finished floor</td>
<td>39 13/16” (1011mm) 39 11/16” (1008mm) with mullion</td>
</tr>
<tr>
<td>Center case</td>
<td>8” x 2 3/8” x 2 3/8” (203mm x 70mm x 60mm)</td>
</tr>
<tr>
<td>Mechanism case</td>
<td>2 1/4” x 2 1/4” (57mm x 57mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 13/16” (97mm) Pushbar depressed – 3 1/16” (78mm)</td>
</tr>
<tr>
<td>Latch bolt</td>
<td>Deadlocking, 1/2” (19mm) throw</td>
</tr>
<tr>
<td>Finishes</td>
<td>605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)</td>
</tr>
<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes screw pack for 1 3/4” (44mm) and 2 1/4” (57mm) thick metal or wood doors (Optional 425 SNB available, see page 64 for quantities)</td>
</tr>
</tbody>
</table>

**Features and options**

**Electrified options**

- LX Latch bolt monitor switch
- RX Request to exit
- RX2 Double request to exit
- E Electric locking and unlocking trim
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- SS Signal switch
- CX Chexit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

**Mechanical options**

- -2 Double cylinder
- -2SI Double cylinder with security indicator
- AX Accessible device
- GBK Glass bead kit
- PN Pneumatic latch retraction
- QM Quiet mechanical
- SNB Sex bolts
- SEC Security screws
- WH Weep holes
- XP Extra protection

**Dogging feature**

Hex key dogging standard

**Dogging options**

- CD Cylinder dogging
- CD-CX Chexit cylinder dogging
- CDSSI Cylinder dogging with security indicator
- HDSSI Hex dogging with security indicator
- SD Special center case dogging
- LD Less dogging
- DI Dogging indicator
- CI Cylinder dogging indicator

**Strikes**

299 – Dull black

**Accessories**

299 Strike

Ships standard, optional strikes available.

Hex key dogging

Comes standard on 98/99 rim exit devices.
98-F and 99-F Rim fire exit devices are certified to ANSI/BHMA A156.3 2014, Grade 1 and UL listed for fire exit hardware. See page 67 for detailed information on UL fire exit hardware label and door opening size information. The 98-F device has a smooth mechanism case and the 99-F device has a grooved case. The rim device is non-handed except when the following device options are used: -2 (double cylinder) or SS (signal switch).

### Specifications

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO/DT/N; Field selectable; For TP, K or L remove NL drive screw from device</th>
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<tr>
<td>Device lengths</td>
<td>3’ 2 1/4” to 3’ (711mm to 914mm) Door size 4’ 2 1/10” to 4’ (864mm to 1219mm) Door size</td>
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<tr>
<td>Device centerline from finished floor</td>
<td>39 3/16” (1011mm) 39 1/8” (1008mm) with mullion</td>
</tr>
<tr>
<td>Center case</td>
<td>8” x 2 1/4” x 2 1/4” (203mm x 70mm x 60mm)</td>
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<tr>
<td>Mechanism case</td>
<td>2 1/4” x 2 1/4” (57mm x 57mm)</td>
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<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 3/16” (97mm) Pushbar depressed – 3 1/16” (78mm)</td>
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<tr>
<td>Latch bolt</td>
<td>Deadlocking, 1/4” (19mm) throw</td>
</tr>
<tr>
<td>Finishes</td>
<td>605, 606, 612, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)</td>
</tr>
<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes screw pack for 1 1/4” (44mm) and 2 1/4” (57mm) thick metal or wood doors; Optional 425 SNB available for metal doors; 425 and 825 SNB required on wood doors without SLM blocking (See page 64 for quantities)</td>
</tr>
</tbody>
</table>

### Accessories

- **299F Strike**
  Ships standard, optional strikes available

- **499F Strike**
  With 9854/9954 Mullion

### Features and options

#### Electrified options
- LX Latch bolt monitor switch
- RX Request to exit
- RX2 Double request to exit
- E Electric locking and unlocking trim
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- SS Signal switch
- CX Chexit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

#### Mechanical options
- -2 Double cylinder
- -2SI Double cylinder with security indicator
- AX Accessible device
- GBK Glass bead kit
- PN Pneumatic latch retraction
- QM Quiet mechanical
- SNB Sex bolts
- SEC Security screws
- SLM Special laminate material blocking
- WH Weep holes
- XP Extra protection

#### Dogging option
No mechanical dogging; EL and QEL options available

#### Strikes
- 299F – Dull black, 499F with Mullions
XP98/99 Rim exit devices are designed for single and double doors with mullion that require increased security. The XP latch provides twice the static load force resistance of standard exit devices. The “smart” latch changes shape when subjected to external forces. This design enables the exit door to withstand an external attack and remain secure. Additionally, the patented latch bolt design provides greater, longer-lasting latch bolt to strike contact which is not easily affected by the twisting motion of a weakened frame, resulting in an opening that will remain strong. Devices are certified to ANSI/BHMA A156.3 2014, Grade 1 and UL listed for panic exit hardware. The rim device is non-handed except when the following device options are used: SD (special dogging) or -2 (double cylinder). Covers stock hollow metal doors with 86 or 161 cutouts on single doors (may cover cutouts on pairs – consult template).

### Specifications

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO/DT/NL; Field selectable; For TP, K or L remove NL drive screw from device</th>
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<tr>
<td>Device centerline from finished floor</td>
<td>39 13/16” (1011mm) 39 11/16” (1008mm) with mullion</td>
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<tr>
<td>Center case</td>
<td>8” x 2 7/16” x 2 3/8” (203mm x 70mm x 60mm)</td>
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<tr>
<td>Mechanism case</td>
<td>2 1/4” x 2 1/4” (57mm x 57mm)</td>
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<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 15/16” (97mm)  Pushbar depressed – 3 1/8” (78mm)</td>
</tr>
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<td>Latch bolt</td>
<td>Deadlocking, 1/4” (19mm) throw</td>
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<tr>
<td>Finishes</td>
<td>605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)</td>
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<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes screw pack for 1 7/8” (44mm) and 2 1/4” (57mm) thick metal or wood doors (Optional 425 SNB available, see page 64 for quantities)</td>
</tr>
</tbody>
</table>

### Features and options

#### Electrified options
- LX-LC  Latch bolt monitor switch, low current
- RX    Request to exit
- RX2   Double request to exit
- E     Electric locking and unlocking trim
- EL    Electric latch retraction
- QEL   Quiet electric latch retraction
- CX    Chexit delayed exit
- ALK   Alarm exit kit
- WP-RX Waterproof request to exit
- CON   Allegion Connect

#### Mechanical options
- -2   Double cylinder
- -2SI Double cylinder with security indicator
- AX    Accessible device
- GBK   Glass bead kit
- SNB   Sex bolts
- SEC   Security screws
- WH    Weep holes

#### Dogging feature
Hex key dogging standard

#### Dogging options
- CD   Cylinder dogging
- CD-CX Chexit cylinder dogging
- CDSI Cylinder dogging with security indicator
- HDSI Hex dogging with security indicator
- SD   Special center case dogging
- LD   Less dogging
- DI   Dogging indicator
- CI   Cylinder dogging indicator

#### Strikes
- 909 – Dull black

### Accessories

**909 Strike**
Ships standard for single or double doors.

**XP latch**
Provides increased security with its two piece design.

**Hex key dogging**
Comes standard on 98/99 rim exit devices.
XP98/99 Rim fire exit devices are certified to ANSI/BHMA A156.3 2014, Grade 1 and UL listed for fire exit hardware. See page 67 for detailed information on UL fire exit hardware label and door opening size information. These are designed for single and double doors with 9954-XP mullion that require increased security. The XP latch provides twice the static load force resistance of standard exit devices. The “smart” latch changes shape when subjected to external forces. This design enables the exit door to withstand an external attack and remain secure. Additionally, the patented latch bolt design provides longer-lasting latch bolt to strike contact which is not easily affected by the twisting motion of a weakened frame, resulting in an opening that will remain strong. The rim device is non-handed except when the following device option is used: -2 (double cylinder). Covers stock hollow metal doors with 86 or 161 cutouts on single doors (may cover cutouts on pairs – consult template).

### Specifications

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<tr>
<td>Center case</td>
<td>8” x 2 1/4” x 2 1/8” (203mm x 70mm x 60mm)</td>
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<td>Mechanism case</td>
<td>2 1/4” x 2 1/8” (57mm x 57mm)</td>
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<td>Projection</td>
<td>Pushbar neutral – 3 13/16” (97 mm) Pushbar depressed – 3 1/8” (78 mm)</td>
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<tr>
<td>Latch bolt</td>
<td>Deadlocking, 1/4” (19mm) throw</td>
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<td>Finishes</td>
<td>605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)</td>
</tr>
<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes screw pack for 1 1/4” (44mm) and 2 1/4” (57mm) thick metal or wood doors. Optional 425 SNB available for metal doors. 425 and 825 SNB required on wood doors without SLM blocking (See page 64 for quantities)</td>
</tr>
</tbody>
</table>

### Features and options

**Electrified options**
- LX-LC Latch bolt monitor switch, low current
- RX Request to exit
- RX2 Double request to exit
- E Electric locking and unlocking trim
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- CX Chexit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

**Mechanical options**
- -2 Double cylinder
- -2SI Double cylinder with security indicator
- AX Accessible device
- GBK Glass bead kit
- SNB Sex bolts
- SEC Security screws
- SLM Special laminate material blocking
- WH Weep holes

### Dogging option
No mechanical dogging; EL and QEL options available

**Strikes**
- 909 – Dull black, fire rated single doors
- 954 – Dull black, fire rated double doors

### Accessories

**909 Strike** Ships standard for single doors.

**XP latch** Provides increased security with its two piece design.

**954 Strike** For fire rated double doors and 9954XP mullion.
9875/9975 Mortise lock device for all types of single or double doors, UL listed for panic exit hardware. Devices are certified to ANSI/BHMA A156.3 2014, Grade 1. Fits stock hollow metal doors with 86 cutout and door stiles as narrow as 4 \(\frac{3}{4}\) " (121mm). The 9875 device has a smooth mechanism case and the 9975 device has a grooved case. The mortise lock device is non-handed except when the following device options are used: -2 (double cylinder) or SS (signal switch).

The 7500 Mortise lock is equipped with a \(\frac{3}{4}\) " (19mm) anti-friction latch bolt which is field reversible without removing the lock from the door. It has a non-handed auxiliary bolt for deadlocking and a faceplate with an adjustable bevel.

### Specifications

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</thead>
<tbody>
<tr>
<td>Device lengths</td>
<td>3'  2'4&quot; to 3' (711mm to 914mm) Door size</td>
</tr>
<tr>
<td>Device centerline from finished floor</td>
<td>39 (\frac{3}{4}) &quot; (1011mm)</td>
</tr>
<tr>
<td>Center case</td>
<td>8&quot; x 2 (\frac{3}{4}) &quot; x 2 (\frac{3}{8}) &quot; (203mm x 70mm x 60mm)</td>
</tr>
<tr>
<td>Mechanism case</td>
<td>2 (\frac{1}{4}) &quot; x 2 (\frac{1}{4}) &quot; (57mm x 57mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 (\frac{3}{4}) &quot; (97mm)</td>
</tr>
<tr>
<td>Finishes</td>
<td>605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)</td>
</tr>
<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes screw pack for 1 (\frac{3}{4}) &quot; (44mm) and 2 (\frac{1}{4}) &quot; (57mm) thick metal or wood doors. (Optional 425 SNB available, see page 64 for quantities)</td>
</tr>
</tbody>
</table>

### Features and options

**Electrified options**

- RX  Request to exit
- RX2 Double request to exit
- E  Electric locking and unlocking trim/mortise lock
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- SS Signal switch
- CX Chexit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

**Mechanical options**

- -2 Double cylinder
- GBK Glass bead kit
- PN Pneumatic latch retraction
- SNB Sex bolts
- SEC Security screws
- WH Weep holes

**Dogging feature**

Hex key dogging standard

**Dogging options**

- CD  Cylinder dogging
- CD-CX Chexit cylinder dogging
- CDSI Cylinder dogging with security indicator
- HDSI Hex dogging with security indicator
- SD  Special center case dogging
- LD  Less dogging
- DI  Dogging indicator
- CI  Cylinder dogging indicator

**Strikes**

- 575 – Dull black
9875-F/9975-F Mortise lock fire exit device

9875-F/9975-F Fire exit mortise lock devices are certified to ANSI/BHMA A156.3 2014, Grade 1 and UL listed for fire exit hardware. See page 67 for detailed information on UL listed fire exit hardware label and door opening size information. Fits door stiles as narrow as 4 3/4" (121mm). The 9875-F device has a smooth mechanism case and the 9975-F device has a grooved case. The mortise lock device is non-handed except when the following device options are used: -2 (double cylinder) or SS (signal switch) devices.

The 7500 Mortise lock is equipped with 1/4" (19mm) anti-friction latch bolt which is field reversible without removing the lock from the door. It has a non-handed auxiliary bolt for deadlocking and a faceplate with an adjustable bevel.

### Specifications

<table>
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<tr>
<th>Device functions</th>
<th>Device ships EO/DT/NL; Field selectable; For TP, K or L remove NL drive screw</th>
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<tr>
<td>Device lengths</td>
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</tr>
<tr>
<td>Device centerline from finished floor</td>
<td>39 3/16&quot; (1011mm) 39 1/8&quot; (1008mm) with mullion</td>
</tr>
<tr>
<td>Center case</td>
<td>8&quot; x 2 1/4&quot; x 2 3/8&quot; (203mm x 70mm x 60mm)</td>
</tr>
<tr>
<td>Mechanism case</td>
<td>2 1/4&quot; x 2 1/2&quot; (57mm x 57mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 3/16&quot; (97mm) Pushbar depressed – 3 ¼&quot; (78mm)</td>
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<tr>
<td>Finishes</td>
<td>605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)</td>
</tr>
<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes screw pack for 1 1/4&quot; (44mm) and 2 1/4&quot; (57mm) thick metal or wood doors. Optional 425 SNB available for metal doors. 425 and 825 SNB required on wood doors without SLM blocking. (See page 64 for quantities)</td>
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</tbody>
</table>

### Features and options

#### Electrified options
- RX Request to exit
- RX2 Double request to exit
- E Electric locking and unlocking trim/mortise lock
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- SS Signal switch
- CX Chexit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

#### Mechanical options
- -2 Double cylinder
- GBK Glass bead kit
- PN Pneumatic latch retraction
- SNB Sex bolts
- SEC Security screws
- SLM Special laminate material blocking
- WH Weep holes

#### Dogging option
No mechanical dogging; EL and QEL options available

#### Strikes
- 575 – Dull black
9827/9927 Surface mounted vertical rod device

9827/9927 Surface mounted vertical rod device for all types of single or double doors, UL listed for panic exit hardware. Devices are certified to ANSI/BHMA A156.3 2014, Grade 1. Covers stock hollow metal doors with 86 or 161 cutouts. The 9827 device has a smooth mechanism case and the 9927 device has a grooved case. The surface vertical rod device is non-handed except when the following device options are used: SD (special dogging), SS (signal switch) or WS (tornado/hurricane). Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors.

**Specifications**

- **Device functions**: Device ships EO/DT/NL; Field selectable; For TP, K or L remove NL drive screw from device
- **Device lengths**:
  - 2' 2' (610 mm) Door size
  - 3' 2'4’ to 3' (711mm to 914mm) Door size
  - 4' 2'10” to 4' (864mm to 1219mm) Door size
- **Device centerline from finished floor**: 39 5/8” (1006 mm)
- **Center case**: 8” x 2 3/4” x 2 3/8” (203mm x 70mm x 60mm)
- **Mechanism case**: 2 1/4” x 2 1/4” (57mm x 57mm)
- **Projection**:
  - Pushbar neutral – 3 13/16” (97mm)
  - Pushbar depressed – 3 1/16” (78mm)
- **Latch bolt**:
  - Deadlocking anti-friction top and bottom bolt, 5/8” (16mm) throw
- **Door undercut**: 1/4” (7mm) recommended
- **Top and bottom latch case**:
  - Top – 4 3/4” x 2 1/2” x 1 1/2” (114mm x 54mm x 38mm)
  - Bottom – 4 3/4” x 2 1/2” x 1 1/2” (114mm x 54mm x 38mm)
- **Vertical rods**:
  - ½” square tubing, standard rods accommodate 7’ (2134mm) doors.
  - Top rod length: 34 5/16” (887mm);
  - Bottom rod length: 31 1/2” (794mm). Extension rods available in 3’ (914mm) for doors over 7’; One piece top rod is available for 8’ (2438mm) and 10’ (3048mm) doors
- **Finishes**:
  - 605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)
- **Fasteners and sex bolts (SNB)**:
  - Includes screw pack for 1 1/2” (44mm) to 2 3/8” (57mm) thick metal or wood doors, and 325 SNB for top and bottom latch. (Optional 425 SNB available)

**Features and options**

- **Electrified options**
  - LX Latch bolt monitor switch
  - RX Request to exit
  - RX2 Double request to exit
  - E Electric locking and unlocking trim
  - EL Electric latch retraction
  - QEL Quiet electric latch retraction
  - SS Signal switch
  - CX Cheexit delayed exit
  - ALK Alarm exit kit
  - WP-RX Waterproof request to exit to exit
  - CON Allegion Connect
- **Mechanical options**
  - AX Accessible device
  - GBK Glass bead kit
  - LBR Less bottom rod
  - PL Pullman latch
  - PN Pneumatic latch retraction
  - QM Quiet mechanical
  - SNB Sex bolts
  - SEC Security screws
  - WH Weep holes
  - WS Tornado and hurricane tested
- **Dogging feature**
  - Hex key dogging standard
- **Dogging options**
  - CD Cylinder dogging
  - CDSI Cylinder dogging with security indicator
  - HDSI Hex dogging with security indicator
  - SD Special center case dogging
  - LD Less dogging
  - DI Dogging indicator
  - CI Cylinder dogging indicator
- **Strikes**
  - Top – 299 – Dull black
  - Bottom – 248L4 and 304L – Unfinished

**Accessories**

- 299 Top strike
- 248L4 Bottom strike
- 304L Bottom strike
- Top latch
- Hex key dogging comes standard on 9827/9927 devices.
9827-F/9927-F Fire exit surface mounted vertical rod device are certified to ANSI/BHMA A156.3 2014, Grade 1 and UL listed for fire exit hardware. See page 67 for detailed information on UL fire exit hardware label and door opening size information. The 9827-F device has a smooth mechanism case and the 9927-F device has a grooved case. The surface vertical rod device is non-handed except when the following device options are used: SS (signal switch), and WS (tornado/hurricane). Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors. Rod and latch guards can be used on hollow metal or tin clad composite fire doors.

### Specifications

**Device functions**
- Device ships EO/DT/NL; Field selectable;
- For TP, K or L remove NL drive screw from device

**Device lengths**
- 2' (610 mm) Door size
- 3' (711mm to 914 mm) Door size
- 4' (864 mm to 1219 mm) Door size

**Device centerline from finished floor**
- 39 5/8" (1006 mm)

**Center case**
- 8" x 2 3/4" x 2 3/8" (203mm x 70mm x 60mm)

**Mechanism case**
- 2 1/4" x 2 1/4" (57mm x 57mm)

**Projection**
- Pushbar neutral – 3 13/16" (97 mm)
- Pushbar depressed – 3 1/16" (78 mm)

**Latch bolt**
- Deadlocking anti-friction top and bottom bolt, 5/8" (16mm) throw

**Door undercut**
- 1/4" (7mm) recommended

**Top and bottom latch case**
- 4 1/2" x 2 7/8" x 1 1/2" (114mm x 54mm x 38mm)

**Vertical rods**
- 1/2" square tubing, standard rods accommodate 7" (2134mm) doors. Top rod length: 34 9/16" (887mm); Bottom rod length: 31 1/4" (794mm). Extension rods available in 3" (914mm) for doors over 7"
- One piece top rod is available for 8' (2438mm) and 10' (3048mm) doors

**Finishes**
- 605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)

**Fasteners and sex bolts (SNB)**
- Includes screw pack for 1 1/4" (44mm) to 2 1/4" (57mm) thick metal or wood doors, and 325 SNB for top and bottom latch (Optional 425 SNB available)

### Features and options

**Electrified options**
- LX Latch bolt monitor switch
- RX Request to exit
- RX2 Double request to exit
- E Electric locking and unlocking trim
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- SS Signal switch
- CX Chevit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

**Mechanical options**
- AX Accessible device (LBR only)
- GBK Glass bead kit
- LBR Less bottom rod
- PL Pullman latch
- PN Pneumatic latch retraction
- QM Quiet mechanical
- SNB Sex bolts
- SEC Security screws
- SLM Special laminate material blocking
- WH Weep holes
- WS Tornado and hurricane tested

**Dogging option**
- No mechanical dogging; EL and QEL options available

**Strikes**
- Top – 299F – (499F LBR) Dull black
- Bottom – 304L – Unfinished
Specifications

Device functions
Device ships EO/DT/NL; Field selectable; For TP, K or L remove NL drive screw from device.

Device lengths
3' 2'4" to 3' (711mm to 914mm) Door size
4' 2'10" to 4' (864mm to 1219mm) Door size

Device centerline from finished floor
39 13/16" (1011mm)

Center case
8" x 2 3/4" x 2 3/8" (203mm x 70mm x 60mm)

Mechanism case
2 1/4" x 2 1/4" (57mm x 57mm)

Projection
Pushbar neutral – 3 13/16" (97mm)
Pushbar depressed – 3/4" (19mm) throw

Latch bolt
Deadlocking anti-friction top and bottom bolt, 5/8" (16mm) throw; Deadlocking rim bolt, 3/4" (19mm) throw

Door undercut
1/4" (7mm) recommended

Top and bottom latch case
4 1/8" x 2 3/4" x 1 1/2" (114mm x 54mm x 38mm)

Vertical rods
1/2" square tubing, standard rods accommodate 7’ (2134mm) doors. Top rod length: 34 1/16" (887mm); Bottom rod length: 31 1/2" (794mm). Extension rods available in 3’ (914mm) for doors over 7’. One piece top rod is available for 8’ (2438mm) and 10’ (3048mm) doors.

Finishes
605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)

Fasteners and sex bolts (SNB)
Includes screw pack for 1 7/8" (44mm) to 2 1/4" (57mm) thick metal or wood doors, and 325 SNB for top and bottom latch (Optional 425 SNB available)

Features and options

Electrified options
LX Latch bolt monitor switch
RX Request to exit
RX2 Double request to exit
E Electric locking and unlocking trim
EL Electric latch retraction
QEL Quiet electric latch retraction
SS Signal switch
CX Cheexit delayed exit
ALK Alarm exit kit
WP-RX Waterproof request to exit
CON Allegion Connect

Mechanical options
GBK Glass bead kit
PL Pullman latch
PN Pneumatic latch retraction
SNB Sex bolts
SEC Security screws
WH Weep holes
WS Tornado and hurricane tested

Doggling feature
Hex key dogging standard

Doggling options
CD Cylinder dogging
CD-CX Cheexit cylinder dogging
CDSI Cylinder dogging with security indicator
HDSI Hex dogging with security indicator
SD Special center case dogging
LD Less dogging
DI Dogging indicator
CI Cylinder dogging indicator

 Strikes
Top and middle – 299 – Dull black
Bottom – 248L4 and 304L – Unfinished

9857/9957 Three-point latching device

9857/9957 Three-point latching device for all types of single or double doors, UL listed for panic exit hardware. Devices are ANSI A156.3 – 2008 Grade 1. Covers stock hollow metal doors with 86 or 161 cutouts. The 9857 device has a smooth mechanism case and the 9957 device has a grooved case. The three-point latching device is non-handed except when the following device options are used: SD (special dogging), SS (signal switch), or WS (windstorm). Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors.

Additional information

Accessories

299 Top and middle strike
For use with flat threshold

248L4 Bottom strike
Top latch
304L Bottom strike
Hex key dogging Comes standard on 9857/9957 three point latching devices.
9857-F/9957-F Three-point latching fire exit device

9857-F/9957-F Fire exit three-point latching device are UL listed for fire exit hardware. See page 67 for detailed information on UL listed fire exit hardware label and door opening size information. Devices are ANSI A156.3 – 2008 Grade 1. The 9857-F device has a smooth mechanism case and the 9957-F device has a grooved case. The three-point latch device is non-handed except when the following device option is used: SS (signal switch) or WS (windstorm). Vertical rod and latch guards are available to protect the bottom rod of the exit device from damage by impacts of carts or gurneys passing through doors.

Specifications

| Device functions | Device ships EO/DT/NL; Field selectable; For TP, K or L remove NL drive screw from device |
| Device lengths | 3' 2'4" to 3' (711mm to 914mm) Door size 4' 2'10" to 4' (864 mm to 1219mm) Door size |
| Device centerline from finished floor | 39 7/16" (1011mm) |
| Center case | 8" x 2 7/16" x 2 3/8" (203mm x 70mm x 60mm) |
| Mechanism case | 2 1/4" x 2 1/4" (57mm x 57mm) |
| Projection | Pushbar neutral – 3 5/8" (97mm) Pushbar depressed – 3 3/8" (78mm) |
| Latch bolt | Deadlocking anti-friction top and bottom bolt, 5/8" (16mm) throw; Deadlocking rim bolt, 3/4" (19mm) throw |
| Door undercut | 1/4" (7mm) recommended |
| Top and bottom Latch case | 4 1/2" x 2 7/8" x 1 1/2" (114mm x 54mm x 38mm) |
| Vertical rods | 1/2" square tubing, standard rods accommodate 7' (2134mm) doors. Top rod length: 34 1/4" (887mm); Bottom rod length: 31 3/4" (794mm); Extension rods available 3' (914mm) for doors over 7'. One piece top rod is available for 8' (2438mm) and 10' (3048mm) doors. |
| Finishes | 605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only) |
| Fasteners and sex bolts (SNB) | Includes screw pack for 1 1/4" (44mm) and 2 1/4" (57mm) thick metal or wood doors, and 325 SNB for top and bottom latch. (Optional 425 SNB available for metal doors; 825 SNB required on wood doors without SLM blocking) |

Features and options

Electrified options
- LX Latch bolt monitor switch
- RX Request to exit
- RX2 Double request to exit
- E Electric locking and unlocking trim
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- SS Signal switch
- CX Chexit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

Mechanical options
- GBK Glass bead kit
- PN Pneumatic latch retraction
- SNB Sex bolts
- SEC Security screws
- SLM Special laminate material blocking
- WH Weep holes
- WS Tornado and hurricane tested

Dogging option
No mechanical dogging; EL and QEL options available

Strikes
- Top and middle – 299F – Dull black
- Bottom – 304L – Unfinished

Accessories

- 299F Top and middle strike
- 499F Rim strike For mullion applications
- 304L Bottom strike
9847/9947 Concealed vertical rod device

9847/9947 Concealed vertical rod device for use on single or double metal doors, UL listed for panic exit hardware. These are certified to ANSI/BHMA A156.3 2014, Grade 1. The 9847 device has a smooth mechanism case and the 9947 device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SD (special dogging), or SS (signal switch).

### Specifications

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO/DT/NL; Field selectable; For TP, K or L remove NL drive screw from device.</th>
</tr>
</thead>
</table>
| Device lengths   | 2’ 2’ (610mm) Door size  
3’ 2’4’ to 3’ (711mm to 914mm) Door size  
4’ 2’10” to 4’ (864mm to 1219mm) Door size |
| Device centerline from finished floor | 39 5⁄8” (1006 mm) Standard  
Adjustable from 35 5⁄8” (905mm) to 49 5⁄8” (1260mm) |
| Center case      | 8x2 3⁄4" x2 3⁄8" (203mm x 70mm x 60mm) |
| Mechanism case   | 2 1⁄4" x 2 1⁄4" (57mm x 57mm) |
| Projection       | Pushbar neutral – 3 3⁄16" (97mm)  
Pushbar depressed – 3 3⁄4” (78mm) |
| Latch bolt       | Deadlocking top and bottom bolt, 7⁄16” (16mm) throw |
| Door undercut    | 1⁄8” (7mm) recommended |
| Top and bottom latch case | 4 3⁄8” x 2 3⁄8” x1 1⁄8” (114mm x 54mm x 38mm) |
| Vertical rods    | Round 2-piece adjustable rods – Top rod adjustable from 6’8” (2027mm) to 8’4”(2533mm). Bottom rod adjustable 35 5⁄8” (905mm) to 49 5⁄8” (1260mm). Extension rod kits available for doors over 8’4” (2533mm). |
| Finishes         | 605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only) |
| Fasteners and sex bolts (SNB) | Includes screw pack for 1 3⁄4” (44mm) to 2 1⁄2” (57mm) thick metal doors (Optional 425 SNB available) |

### Features and options

#### Electrified options
- LX  Latch bolt monitor switch
- RX  Request to exit
- RX2  Double request to exit
- E  Electric locking and unlocking trim
- EL  Electric latch retraction
- QEL  Quiet electric latch retraction
- SS  Signal switch
- CX  Chexit delayed exit
- ALK  Alarm exit kit
- WP-RX  Waterproof request to exit
- CON  Allegion Connect

#### Mechanical options
- GBK  Glass bead kit
- LBR  Less bottom rod
- PL  Pullman latch
- PN  Pneumatic latch retraction
- SNB  Sex bolts
- SEC  Security screws
- WH  Weep holes

#### Dogging feature
Hex key dogging standard

#### Dogging options
- CD  Cylinder dogging
- CD-CX  Chexit cylinder dogging
- CDSI  Cylinder dogging with security indicator
- HDSI  Hex dogging with security indicator
- SD  Special center case dogging
- LD  Less dogging
- DI  Dogging indicator
- CI  Cylinder dogging indicator

#### Strikes
- Top – 338 – Unfinished
- Bottom – 385A – Unfinished

### Accessories

- **338** Top strike
- **385A** Bottom strike
- **Top latch**
- **Bottom latch**

Hex key dogging Comes standard on 9847/9947 concealed vertical rod devices
9847-F/9947-F Fire exit concealed vertical rod device are certified to ANSI/BHMA A156.3 2014, Grade 1 and UL listed for fire exit hardware. See page 67 for detailed information on UL fire exit hardware label and door opening size information. The 9847-F device has a smooth mechanism case and the 9947-F device has a grooved case. The concealed vertical rod device is non-handed except when the following device option is used: SS (signal switch) devices.

### Specifications

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO/DT/NL; Field selectable: For TP, K or L remove NL drive screw from device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device lengths</td>
<td>2&quot; x 2&quot; (610 mm) Door size 3' x 2'4&quot; to 3' (711mm to 914mm) Door size 4' x 2'10&quot; to 4' (864mm to 1219mm) Door size</td>
</tr>
<tr>
<td>Device centerline from finished floor</td>
<td>39 5/8&quot; (1006 mm) Standard Adjustable from 35 5/8&quot; (905mm) to 49 5/16&quot; (1260mm)</td>
</tr>
<tr>
<td>Center case</td>
<td>8&quot; x 2 3/4&quot; x 2 3/8&quot; (203mm x 70mm x 60mm)</td>
</tr>
<tr>
<td>Mechanism case</td>
<td>2 1/4&quot; x 2 1/4&quot; (57mm x 57mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 3/4&quot; (97mm) Pushbar depressed – 3 1/4&quot; (78mm)</td>
</tr>
<tr>
<td>Latch bolt</td>
<td>Deadlocking top and bottom bolt, 5/8&quot; (16mm) throw</td>
</tr>
<tr>
<td>Door undercut</td>
<td>1/2&quot; (7mm) recommended</td>
</tr>
<tr>
<td>Top and bottom latch case</td>
<td>3 1/4&quot; x 1 1/2&quot; x 1&quot; (95mm x 38mm x 25mm)</td>
</tr>
<tr>
<td>Vertical rods</td>
<td>Round 2-piece adjustable rods – Top rod adjustable from 6'8&quot; (2027mm) to 8'4&quot; (2533mm). Bottom rod adjustable 35 5/8&quot; (905mm) to 49 5/16&quot; (1260mm) Extension rod kits available for doors over 8'4&quot; (2533mm)</td>
</tr>
<tr>
<td>Finishes</td>
<td>605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)</td>
</tr>
<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes screw pack for 1 1/2&quot; (44mm) to 2 7/8&quot; (57mm) thick metal doors (Optional 425 SNB available)</td>
</tr>
</tbody>
</table>

### Features and options

#### Electrified options
- **LX** Latch bolt monitor switch
- **RX** Request to exit
- **RX2** Double request to exit
- **E** Electric locking and unlocking trim
- **EL** Electric latch retraction
- **QEL** Quiet electric latch retraction
- **SS** Signal switch
- **CX** Chexit delayed exit
- **ALK** Alarm exit kit
- **WP-RX** Waterproof request to exit
- **CON** Allegion Connect

#### Mechanical options
- **GBK** Glass bead kit
- **LBR** Less bottom rod
- **PN** Pneumatic latch retraction
- **SNB** Sex bolts
- **SEC** Security screws
- **SLM** Special laminate material blocking
- **WH** Weep holes

#### Dogging option
No mechanical dogging; EL and QEL options available

#### Strikes
- **Top** – 338 – Unfinished
- **Bottom** – 385A – Unfinished
9848/9948 Concealed vertical rod device for use on single or double metal doors, UL listed for panic exit hardware. These are certified to ANSI/BHMA A156.3 2014, Grade 1. Covers stock hollow metal doors with 86 or 161 cutouts. The 9848 device has a smooth mechanism case and the 9948 device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SD (special dogging), or SS (signal switch).

### Specifications

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO/DT/NL; Field selectable; For TP, K or L remove NL drive screw from device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device lengths</td>
<td>2’ 2’ (610 mm) Door size 3’ 2’4’ to 3’ (711mm to 914mm) Door size 4’ 2’10” to 4’ (864mm to 1219mm) Door size</td>
</tr>
<tr>
<td>Device centerline from finished floor</td>
<td>39 5/8&quot; (1006 mm) Standard Adjustable from 35 5/8&quot; (905mm) to 49 5/8&quot; (1260mm)</td>
</tr>
<tr>
<td>Center case</td>
<td>8” x 2 3/4” x 2 3/8” (203mm x 70mm x 60mm)</td>
</tr>
<tr>
<td>Mechanism case</td>
<td>2 1/4” x 2 1/4” (57mm x 57mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 13/16” (97 mm) Pushbar depressed – 3 1/4” (78mm)</td>
</tr>
<tr>
<td>Latch bolt</td>
<td>Deadlocking top bolt, 3/4” (16mm) throw Deadlocking bottom bolt, 1 1/2” (38mm) throw</td>
</tr>
<tr>
<td>Door undercut</td>
<td>1/4” (19mm) maximum, more than 1/4” minimum</td>
</tr>
<tr>
<td>Top and bottom latch case</td>
<td>4 1/4” x 1 1/2” x 1 1/4” (107mm x 38mm x 28mm)</td>
</tr>
<tr>
<td>Vertical rods</td>
<td>Round 2-piece adjustable rods – Top rod adjustable from 6’8” (2027mm) to 8’4” (2533mm). Bottom rod adjustable 35 5/8” (905mm) to 49 5/8” (1260 mm). Extension rod kits available for doors over 8’4” (2533mm).</td>
</tr>
<tr>
<td>Finishes</td>
<td>605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)</td>
</tr>
<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes screw pack for 1 1/2” (44mm) to 2 1/4” (57mm) thick metal doors (Optional 425 SNB available)</td>
</tr>
</tbody>
</table>

### Features and options

#### Electrified options
- LX Latch bolt monitor switch
- RX Request to exit
- RX2 Double request to exit
- E Electric locking and unlocking trim
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- SS Signal switch
- CX Chexit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

#### Mechanical options
- GBK Glass bead kit
- PN Pneumatic latch retraction
- SNB Sex bolts
- SEC Security screws
- WH Weep holes

#### Dogging feature
- Hex key dogging standard

#### Dogging options
- CD Cylinder dogging
- CD-CX Chexit cylinder dogging
- CDSSI Cylinder dogging with security indicator
- HDSI Hex dogging with security indicator
- SD Special center case dogging
- LD Less dogging
- DI Dogging indicator
- CI Cylinder dogging indicator

#### Strikes
- Top – 338 – Unfinished
- Bottom – 385A – Unfinished

---

**Accessories**

- **338** Top strike
- **385A** Bottom strike

**Top latch**

**Bottom latch**

**Hex key dogging**

Comes standard on 9847/9947 concealed vertical rod devices
9848-F/9948-F Concealed vertical rod device are certified to ANSI/BHMA A156.3 2014, Grade 1 and UL listed for fire exit hardware. See page 67 for detailed information on UL listed fire exit hardware label and door opening size information. The 9848-F device has a smooth mechanism case and the 9948-F device has a grooved case. The concealed vertical rod device is non-handed except when the following device option is used: SS (signal switch).

### Specifications

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO/DT/NL; Field selectable; For TP, K or L remove NL drive screw from device</th>
</tr>
</thead>
</table>
| Device lengths   | 2’ (610mm) Door size  
3’ 2’4” to 3’ (711mm to 914mm) Door size  
4’ 2’10” to 4’ (864mm to 1219mm) Door size |
| Device centerline from finished floor | 39 1/8” (1006mm) Standard  
Adjustable from 35 1/8” (905mm) to 49 5/8” (1260mm) |
| Center case      | 8” x 2 7/8” x 2 3/4” (203mm x 70mm x 60mm) |
| Mechanism case   | 2 1/8” x 2 7/8” (57mm x 57mm) |
| Projection       | Pushbar neutral – 3 3/8” (97mm)  
Pushbar depressed – 3 3/8” (78mm) |
| Latch bolt       | Deadlocking top bolt, 3/8” (16mm) throw  
Deadlocking bottom bolt, 1 1/8” (38mm) throw |
| Door undercut    | 3/8” (19mm) maximum, more than 3/8” minimum |
| Top and bottom Latch case | 4 3/4” x 1 1/2” x 1 1/8” (107mm x 38mm x 28mm) |
| Vertical rods    | Round 2-piece adjustable rods – Top rod adjustable from 6’8” (2027mm) to 8’4” (2533mm). Bottom rod adjustable 35 1/8” (905mm) to 49 5/8” (1260 mm). Extension rod kits available for doors over 8’4” (2533mm). |
| Finishes         | 605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only) |
| Fasteners and sex bolts (SNB) | Includes screw pack for 1 7/8” (44mm) to 2 3/4” (57mm) thick metal doors. (Optional 425 SNB available) |

### Features and options

**Electrified options**

- LX Latch bolt monitor switch
- RX Request to exit
- RX2 Double request to exit
- E Electric locking and unlocking trim
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- SS Signal switch
- CX Chexit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

**Mechanical options**

- GBK Glass bead kit
- PN Pneumatic latch retraction
- SNB Sex bolts
- SEC Security screws
- SLM Special laminate material blocking
- WH Weep holes

**Dogging option**

No mechanical dogging; EL and QEL options available

**Strikes**

- Top – 338 – Unfinished
- Bottom – 385A – Unfinished
9849/9949 Concealed vertical cable device for use on single or double metal doors, UL listed for panic exit hardware. These are certified to ANSI/BHMA A156.3 2014, Grade 1. The 9849 device has a smooth mechanism case and the 9949 device has a grooved case. The concealed vertical cable device is non-handed except when the following device options are used: SD (special dogging), or SS (signal switch).

**Specifications**

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO/DT/NL; Field selectable: For TP, K or L, remove NL drive screw from device.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device lengths</td>
<td>2' 2&quot; (610 mm) Door size 3' 2'4&quot; to 3' (711mm to 914mm) Door size 4' 2'10&quot; to 4' (864mm to 1219mm) Door size</td>
</tr>
<tr>
<td>Device centerline from finished floor</td>
<td>39 5⁄8&quot; (1006 mm)</td>
</tr>
<tr>
<td>Center case</td>
<td>8&quot; x 2 3⁄4&quot; x 2 3⁄4&quot; (203mm x 70mm x 60mm)</td>
</tr>
<tr>
<td>Mechanism case</td>
<td>2 3⁄4&quot; x 2 3⁄4&quot; (57mm x 57mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 3⁄32&quot; (97mm) Pushbar depressed – 3 13⁄64&quot; (78mm)</td>
</tr>
<tr>
<td>Latch bolt</td>
<td>Deadlocking top and bottom bolt, 1⁄2&quot; (13mm) throw</td>
</tr>
<tr>
<td>Door undercut</td>
<td>5⁄8&quot; (19mm) maximum (24231516 spacer block kit needed for 3⁄4&quot; undercut)</td>
</tr>
<tr>
<td>Top and bottom latch case</td>
<td>5 5⁄8&quot; x 1 7⁄16&quot; x 1 7⁄16&quot; (147mm x 32mm x 37mm)</td>
</tr>
<tr>
<td>Vertical cable</td>
<td>3⁄32&quot; (6mm) Diameter stainless steel cables</td>
</tr>
<tr>
<td>Finishes</td>
<td>605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)</td>
</tr>
<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes screw pack for 1 3⁄32&quot; (44mm) to 2 3⁄32&quot; (57mm) thick metal doors (Optional 425 SNB available)</td>
</tr>
</tbody>
</table>

**Features and options**

**Electrified options**
- LX*: Latch bolt monitor switch
- RX: Request to exit
- RX2: Double request to exit
- E: Electric locking and unlocking trim
- EL: Electric latch retraction
- QEL: Quiet electric latch retraction
- SS: Signal switch
- CX: Cheexit delayed exit
- ALK: Alarm exit kit
- WP-RX: Waterproof request to exit
- CON: Allegion Connect

**Mechanical options**
- AX: Accessible device
- GBK: Glass bead kit
- LBL: Less bottom latch
- PN: Pneumatic latch retraction
- SG: Safety glow
- SNB: Sex bolts
- SEC: Security screws
- WH: Weep holes

**Dogging options**
- No mechanical dogging; EL and QEL options available

**Dogging options**
- CD: Cylinder dogging
- CD-CX: Cheexit cylinder dogging
- CDSI: Cylinder dogging with security indicator
- HDSI: Hex dogging with security indicator
- SD: Special center case dogging
- LD: Less dogging
- DI: Dogging indicator
- CI: Cylinder dogging indicator

**Strikes**
- Top – 249 – Unfinished
- Bottom – 349 – Unfinished

*For 98/9949 devices, LX switch monitors trim input or electric dogging of EL/QEL devices. LX switch does not monitor latch bolt condition.
9849/9949 Concealed vertical cable device

Accessories

249 Top strike

349 Bottom strike

338 Filler plate (retrofit bracket)

Top latch

Center slide

Bottom latch

Cable detail

Door opening height
is distance from bottom of frame header to finished floor.
See table on left for standard offering.

<table>
<thead>
<tr>
<th>Nominal door opening height</th>
<th>Top cable part number</th>
<th>Bottom cable part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>72&quot; - 82&quot;</td>
<td>6'0&quot; - 6'10&quot;</td>
<td>47250398</td>
</tr>
<tr>
<td>*82&quot; - 96&quot;</td>
<td>*6'10&quot; - 8'</td>
<td>47250175</td>
</tr>
<tr>
<td>&gt;96&quot; - 110&quot;</td>
<td>&gt;8'0&quot; - 9'2&quot;</td>
<td>47250176</td>
</tr>
<tr>
<td>&gt;110&quot; - 120&quot;</td>
<td>&gt;9'2&quot; - 10&quot;</td>
<td>47250177</td>
</tr>
</tbody>
</table>

*Default door opening height. Specify door opening height if other than the default. For door heights less than 6’0” and greater than 10’, contact our Customer Care department to discuss your specific application needs.

Hex key dogging
Comes standard on 9849/9949 concealed vertical cable devices

21 · Von Duprin · 98/99 Series
98/9949-F Concealed vertical cable devices are certified to ANSI/BHMA A156.3 2014, Grade 1 and UL listed for fire exit hardware. See page 67 for detailed information on UL listed fire exit hardware label and door opening size information. The 9849 device has a smooth mechanism case and the 9949 device has a grooved case. The concealed vertical cable device is non-handed except when the following device options are used: SD (special dogging), or SS (signal switch).

**Specifications**

**Device functions**
- Device ships EO/DT/NL; Field selectable:
  - For TP, K or L remove NL drive screw from device

**Device lengths**
- 2' 2' (610 mm) Door size
- 3' 2'4' to 3' (711mm to 914mm) Door size
- 4' 2'10" to 4' (864mm to 1219mm) Door size

**Device centerline from finished floor**
- 39 5/8" (1006 mm) Standard

**Center case**
- 8" x 2 3/16" x 2 3/16" (203mm x 70mm x 60mm)

**Mechanism case**
- 2 1/4" x 2 1/4" (57mm x 57mm)

**Projection**
- Pushbar neutral – 3 13/16" (97mm)
- Pushbar depressed – 3 1/16" (78mm)

**Latch bolt**
- Deadlocking anti-friction top and bottom bolt, 1/8" (16mm) throw

**Door undercut**
- 1/4" (19mm) maximum

**Top and bottom Latch case**
- 5 3/16" x 1 7/8" x 1 7/16" (147mm x 32mm x 37mm)

**Vertical cable**
- 7/32" (6mm) Diameter stainless steel cables

**Finishes**
- 605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)

**Fasteners and sex bolts (SNB)**
- Includes screw pack for 1 7/16" (44mm) to 2 1/8" (57mm) thick metal doors (Optional 425 SNB available)

**Features and options**

**Electrified options**
- LX* Latch bolt monitor switch
- RX Request to exit
- RX2 Double request to exit
- E Electric locking and unlocking trim
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- SS Signal switch
- CX Cheexit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

**Mechanical options**
- AX Accessible device
- GBK Glass bead kit
- LBL Less bottom latch
- PN Pneumatic latch retraction
- SG Safety glow
- SNB Sex bolts
- SEC Security screws
- WH Weep holes

**Dogging feature**
- Hex key dogging standard

**Dogging options**
- CD Cylinder dogging
- CD-CX Cheexit cylinder dogging
- CDSI Cylinder dogging with security indicator
- HDSI Hex dogging with security indicator
- SD Special center case dogging
- LD Less dogging
- DI Dogging indicator
- CI Cylinder dogging indicator

**Strikes**
- Top – 249 – Unfinished
- Bottom – 349 – Unfinished

*For 98/9949-F devices, LX switch monitors trim input or electrified dogging of EL/QEL devices. LX switch does not monitor latch bolt condition.
9849-F/9949-F Concealed vertical cable fire exit device

**Accessories**

- **249 Top strike**
- **349 Bottom strike**
- **338 Filler plate** (retrofit bracket)

**Door opening height**

is distance from bottom of frame header to finished floor. See table on left for standard offering.

<table>
<thead>
<tr>
<th>Nominal door opening height</th>
<th>Top cable part number</th>
<th>Bottom cable part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>72&quot; - 82&quot; 6'0&quot; - 6'10&quot;</td>
<td>47250398</td>
<td>47250403</td>
</tr>
<tr>
<td>*82&quot; - 96&quot; 6'10&quot; - 8'</td>
<td>47250175</td>
<td>47250178</td>
</tr>
<tr>
<td>&gt;96&quot; - 110&quot; 8' - 9'2&quot;</td>
<td>47250176</td>
<td>47250179</td>
</tr>
<tr>
<td>&gt;110&quot; - 120&quot; 9'2&quot; - 10&quot;</td>
<td>47250177</td>
<td>47250180</td>
</tr>
</tbody>
</table>

*Default door opening height. Specify door opening height if other than the default. For door heights less than 6'0" and greater than 10’, contact our Customer Care department to discuss your specific application needs.

**Hex key dogging**

Comes standard on 9849/9949 concealed vertical cable devices.

**Device types**

- 23   •   Von Duprin   •   98/99 Series
9847WDC/9947WDC Concealed vertical rod device for use on single or double wood doors, UL listed for panic exit hardware. Devices are certified to ANSI/BHMA A156.3 2014, Grade 1. The 9847WDC device has a smooth mechanism case and the 9947WDC device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SD (special dogging), or SS (signal switch).

### Specifications

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO/DT/NL: Field selectable; For TP, K or L remove NL drive screw from device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device lengths</td>
<td>2' 2&quot; (610 mm) Door size 3' 2¼' to 3' (711mm to 914mm) Door size 4' 2½&quot; to 4' (864mm to 1219mm) Door size</td>
</tr>
<tr>
<td>Device centerline from finished floor</td>
<td>39 ¼&quot; (1006mm) Standard Adjustable from 35 ½&quot; (905mm) to 49 ¼&quot; (1260mm)</td>
</tr>
<tr>
<td>Center case</td>
<td>8&quot; x 2 ½&quot; x 2 ¼&quot; (203mm x 70mm x 60mm)</td>
</tr>
<tr>
<td>Mechanism case</td>
<td>2 1⁄4&quot; x 2 ½&quot; (57mm x 57mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 ¾&quot; (97mm) Pushbar depressed – 3 1⁄8&quot; (78mm)</td>
</tr>
<tr>
<td>Latch bolt</td>
<td>Deadlocking top bolt, ¾&quot; (16mm) throw</td>
</tr>
<tr>
<td>Door undercut</td>
<td>½&quot; (7mm) maximum</td>
</tr>
<tr>
<td>Top and bottom Latch case</td>
<td>3 ¾&quot; x 1 ¾&quot; x 1&quot; (95mm x 38mm x 25mm)</td>
</tr>
<tr>
<td>Vertical rods</td>
<td>Round 2-piece adjustable rods – Top rod adjustable from 6½&quot; (2027mm) to 8½&quot; (2533mm). Bottom rod adjustable 35 ½&quot; (905mm) to 49 ¼&quot; (1260mm), Extension rod kits available for doors over 8½&quot; (2533mm).</td>
</tr>
<tr>
<td>Scalp plate²</td>
<td>Device is furnished standard with an 8&quot; (203mm) long scalp plate for easy access to rods</td>
</tr>
<tr>
<td>Finishes</td>
<td>605, 606, 612, 625, 626, 628 and 710 (619 and 630 available with 98 Series only)</td>
</tr>
<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes screw pack for 1½&quot; (44mm) to 2 1⁄8&quot; (57mm) thick wood doors. (425 SNB required on wood doors without SLM blocking)</td>
</tr>
</tbody>
</table>

¹: Do not use on pair of doors with 9875/9975.

### Features and options

#### Electrified options
- **LX** Latch bolt monitor switch
- **RX** Request to exit
- **RX2** Double request to exit
- **E** Electric locking and unlocking trim
- **EL** Electric latch retraction
- **QEL** Quiet electric latch retraction
- **SS** Signal switch
- **CX** Chexit delayed exit
- **ALK** Alarm exit kit
- **WP-RX** Waterproof request to exit
- **CON** Allegion Connect

#### Mechanical options
- **GBK** Glass bead kit
- **LBR** Less bottom rod
- **PL** Pullman latch
- **PN** Pneumatic latch retraction
- **SNB** Sex bolts
- **SEC** Security screws
- **WH** Weep holes

#### Dogging feature
- Hex key dogging standard

#### Dogging options
- **CD** Cylinder dogging
- **CDSI** Cylinder dogging with security indicator
- **HDSI** Hex dogging with security indicator
- **LD** Less dogging
- **DI** Dogging indicator
- **CI** Cylinder dogging indicator

#### Strikes
- Top – 33B – Unfinished
- Bottom – 358A – Unfinished

### Accessories

- **33B** Top strike
- **385A** Bottom strike
- **283** Top strike

**Includes screw pack for 1½" (44mm) to 2 1⁄8" (57mm) thick wood doors. (425 SNB required on wood doors without SLM blocking)**

- **Top latch**
- **Bottom latch**

**Hex key dogging**
Comes standard on 9847/9947 wood door concealed vertical rod devices
9847WDC-F/9947WDC-F Fire exit concealed vertical rod devices are certified to ANSI/BHMA A156.3 2014, Grade 1 and UL listed for fire exit hardware. See page 67 for detailed information on UL listed fire exit hardware label and door opening size information. The 9847WDC-F device has a smooth mechanism case and the 9947WDC-F device has a grooved case. The concealed vertical rod device is non-handed except when the following device options are used: SS (signal switch).

**Specifications**

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO/DT/NL: Field selectable; For TP, K or L remove NL drive screw from device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device lengths</td>
<td>2' 2' (610 mm) Door size</td>
</tr>
<tr>
<td></td>
<td>3' 2'4' to 3' (711mm to 914 mm) Door size</td>
</tr>
<tr>
<td></td>
<td>4' 2'10&quot; to 4' (864 mm to 1219 mm) Door size</td>
</tr>
<tr>
<td>Device centerline from finished floor</td>
<td>39 5/8&quot; (1006 mm) Standard</td>
</tr>
<tr>
<td>Center case</td>
<td>8&quot; x 2 1/4&quot; x 2 3/8&quot; (203mm x 70mm x 60mm)</td>
</tr>
<tr>
<td>Mechanism case</td>
<td>2 1/4&quot; x 2 1/4&quot; (57mm x 57mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 13/16&quot; (97 mm)</td>
</tr>
<tr>
<td></td>
<td>Pushbar depressed – 3 1/8&quot; (78 mm)</td>
</tr>
<tr>
<td>Latch bolt</td>
<td>Deadlocking top and bottom bolt, 1/8&quot; (16mm) throw</td>
</tr>
<tr>
<td>Door undercut</td>
<td>1/4&quot; (7mm) maximum</td>
</tr>
<tr>
<td>Top and bottom Latch case</td>
<td>3 1/4&quot; x 1 1/4&quot; x 1&quot; (95mm x 38mm x 25mm)</td>
</tr>
<tr>
<td>Vertical rods</td>
<td>Round 2-piece adjustable rods – Top rod adjustable from 6'8&quot; (2027mm) to 8'4&quot; (2533mm).</td>
</tr>
<tr>
<td></td>
<td>Bottom rod adjustable 3 1/8&quot; (905 mm) to 49 5/8&quot; (1260 mm). Extension rod kits available for doors over 8'4&quot; (2533mm).</td>
</tr>
<tr>
<td>Scalp plate¹</td>
<td>Device is furnished standard with an 8&quot; (203mm) long scalp plate for easy access to rods</td>
</tr>
<tr>
<td>Finishes</td>
<td>605, 606, 612, 625, 626, 628, 710 (619 and 630 available with 98 Series only)</td>
</tr>
<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes screw pack for 1 1/4&quot; (44mm) to 2 1/4&quot; (57mm) thick wood doors. (425 SNB required on wood doors without SLM blocking)</td>
</tr>
</tbody>
</table>

¹. Do not use on pair of doors with 9875-F/9975-F.

**Features and options**

**Electrified options**

- LX Latch bolt monitor switch
- RX Request to exit
- RX2 Double request to exit
- E Electric locking and unlocking trim
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- SS Signal switch
- CX Chexit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

**Mechanical options**

- GBK Glass bead kit
- LBR Less bottom rod
- PL Pullman latch
- PN Pneumatic latch retraction
- SNB Sex bolts
- SEC Security screws
- WH Weep holes

**Dogging option**

No mechanical dogging; EL and QEL options available

**Strikes**

- Top – 338 – Unfinished
- Bottom – 385A – Unfinished

**Accessories**

- **338** Top strike
- **385A** Bottom strike
9850WDC/9950WDC Wood door concealed vertical cable device

9850WDC/9950WDC Concealed vertical cable device for use on single or double wood doors, UL listed for panic exit hardware. Devices are certified to ANSI/BHMA A156.3 2014, Grade 1. The 9850WDC device has a smooth mechanism case and the 9950WDC device has a grooved case. The concealed vertical cable device is non-handed except when the following device options are used: SD (special dogging), or SS (signal switch).

### Specifications

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO/DT/NL; Field selectable: For TP, K or L remove NL drive screw from device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device lengths</td>
<td>2' 2&quot; (610mm) Door size 3' 2'4&quot; to 3' (711mm to 914mm) Door size 4' 2'10&quot; to 4' (864mm to 1219 mm) Door size</td>
</tr>
<tr>
<td>Device centerline from finished floor</td>
<td>39 5/8&quot; (1006mm) Standard</td>
</tr>
<tr>
<td>Center case</td>
<td>8&quot; x 2 7/8&quot; x 2 3/8&quot; (203mm x 70mm x 60mm)</td>
</tr>
<tr>
<td>Mechanism case</td>
<td>2 1/4&quot; x 2 1/8&quot; (57mm x 57mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 11/16&quot; (97mm) Pushbar depressed – 3/8&quot; (78mm)</td>
</tr>
<tr>
<td>Latch bolt</td>
<td>Deadlocking top and bottom bolt. 1 7/8&quot; (38mm) throw</td>
</tr>
<tr>
<td>Door undercut</td>
<td>3/4&quot; (19mm) maximum</td>
</tr>
<tr>
<td>Top and bottom</td>
<td>1/2&quot; (14mm) x 1/4&quot; (32mm) x 1/4&quot; (37mm)</td>
</tr>
<tr>
<td>Latch case</td>
<td>5/8&quot; (6mm) Diameter stainless steel cables</td>
</tr>
<tr>
<td>Vertical cables</td>
<td>Scalp plate</td>
</tr>
<tr>
<td>Scalp plate¹</td>
<td>Finishes 605, 606, 612, 625, 626/626AM, 628, 710, 711 and 643e (619 and 630 available with 98 Series only)</td>
</tr>
<tr>
<td>Finishes</td>
<td>Fasteners and sex bolts (SNB) Includes screw pack for 1 1/2&quot; (44mm) to 2 1/4&quot; (57mm) thick wood doors.</td>
</tr>
</tbody>
</table>

¹. Do not use on pair of doors with 9975 devices.

### Features and options

#### Electrified options
- **LX** Latch bolt monitor switch
- **RX** Request to exit
- **RX2** Double request to exit
- **RX996L** Trim monitor switch
- **RX-LC** Request to exit low current
- **E** Electric locking and unlocking trim
- **EL** Electric latch retraction
- **QEL** Quiet electric latch retraction
- **SS** Signal switch
- **CX** Chexit delayed exit
- **ALK** Alarm exit kit
- **WP-RX** Waterproof request to exit
- **CON** Allegion Connect

#### Mechanical options
- **AX** Accessible device
- **GBK** Glass bead kit
- **LBL** Less bottom latch
- **PN** Pneumatic latch retraction
- **SG** Safety glow
- **SNB** Sex bolts
- **SEC** Security screws
- **WH** Weep holes

#### Dogging feature
- Hex key dogging standard

#### Dogging options
- **CD** Cylinder dogging
- **CD3I** Cylinder dogging with security indicator
- **HDSI** Hex dogging with security indicator
- **SD** Special center case dogging
- **LD** Less dogging
- **DI** Dogging indicator
- **CI** Cylinder dogging indicator

#### Strikes
- Top – 150 – Unfinished
- Bottom – 450 – Unfinished

---

*For 98/9950WDC devices, LX switch monitors trim input or electrified dogging of EL/QEL devices. LX switch does not monitor latch bolt condition.*
9850WDC/9950WDC Wood door concealed vertical cable device

Accessories

150 Top strike

193 Top latch

Hex key dogging
Comes standard on 9850/9950 concealed vertical cable devices

450 Bottom strike

Center slide

338 Filler plate
(retrofit bracket)

Bottom latch

Door opening height
is measured from finished floor to frame rabbet on door side.
See table for standard offering.

Standard door opening height

<table>
<thead>
<tr>
<th>Feet</th>
<th>Cable tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>6’8” - 7’</td>
<td>72” - 84”</td>
</tr>
<tr>
<td>7’1” - 8’</td>
<td>85” - 96”</td>
</tr>
<tr>
<td>8’1” - 9’</td>
<td>97” - 108”</td>
</tr>
<tr>
<td>9’1” - 10’</td>
<td>109” - 120”</td>
</tr>
</tbody>
</table>

Note: Non-standard sizes available with extended lead time. Consult Customer Care for more information 1-877-671-7011.
9850WDC-F/9950WDC-F Fire exit concealed vertical cable devices are certified to ANSI/BHMA A156.3 2014, Grade 1 and UL listed for fire exit hardware. See page 67 for detailed information on UL listed fire exit hardware label and door opening size information. The 9850WDC-F device has a smooth mechanism case and the 9950WDC-F device has a grooved case. The concealed vertical cable device is non-handed except when the following device options are used: SS (signal switch).

### Specifications

**Device functions**
Device ships EO/DT/NL; Field selectable; For TP, K or L remove NL drive screw from device.

**Device lengths**
- 2’ (610mm) Door size
- 3’ (711mm) Door size
- 4’ (864mm) Door size

**Device centerline from finished floor**
- 39 5/8" (1006mm) Standard

**Mechanism case**
- 2 1/4" x 2 1/4" (57mm x 57mm)

**Projection**
- Pushbar neutral – 3 13/16" (97mm)
- Pushbar depressed – 3 1/16" (78mm)

**Latch bolt**
Deadlocking top and bottom bolt, 1 1/2" (38mm) throw

**Door undercut**
3/4" (19mm) maximum

**Top and bottom Latch case**
- 5 3/16" x 1 1/8" x 1 1/8" (147mm x 32mm x 37mm)

**Vertical cables**
7/32" (6mm) Diameter stainless steel cables

**Scalp plate**
1 Device is furnished standard with a 15" (381mm) long scalp plate for easy access to cables.

**Finishes**

**Fasteners and sex bolts (SNB)**
Includes screw pack for 1 3/4" (44mm) to 2 7/8" (57mm) thick wood doors

**1. Do not use on pair of doors with 9975 devices.**

### Features and options

**Electrified options**
- LX* Latch bolt monitor switch
- RX Request to exit
- RX2 Double request to exit
- RX996L Trim monitor switch
- RX-LC Request to exit low current
- E Electric locking and unlocking trim
- EL Electric latch retraction
- QEL Quiet electric latch retraction
- SS Signal switch
- CX Chexit delayed exit
- ALK Alarm exit kit
- WP-RX Waterproof request to exit
- CON Allegion Connect

**Mechanical options**
- AX Accessible device
- GBK Glass bead kit
- LBL Less bottom latch
- PN Pneumatic latch retraction
- SG Safety glow
- SNB Sex bolts
- SEC Security screws
- SLM Special laminate material blocking
- WH Weep holes

**Dogging option**
No mechanical dogging:
EL and QEL options available

**Strikes**
- Top – 150 – Unfinished
- Bottom – 450 – Unfinished

*For 98/9950 devices, LX switch monitors trim input or electric dogging of EL/QEL devices. LX switch does not monitor latch bolt condition.

### Accessories

**150 Top strike**

**450 Bottom strike**

**Top latch**

**Bottom latch**

**338 Filler plate (retrofit bracket)**

**Center slide**

**Standard door opening height**

<table>
<thead>
<tr>
<th>Feet</th>
<th>Cable tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'-8&quot; – 7'</td>
<td>72&quot; – 84&quot;</td>
</tr>
<tr>
<td>7'-1&quot; – 8'</td>
<td>85&quot; – 96&quot;</td>
</tr>
<tr>
<td>8'-1&quot; – 9'</td>
<td>97&quot; – 108&quot;</td>
</tr>
<tr>
<td>9'-1&quot; – 10'</td>
<td>109&quot; – 120&quot;</td>
</tr>
</tbody>
</table>

Note: Non-standard sizes available with extended lead time. Consult Customer Care for more information 1-877-671-7011.
98/9952 Rim with remote trim input (pool exit hardware)

Openings beyond the interior often have additional functional requirements that go beyond the limits of standard door hardware. Von Duprin offers the safety of panic hardware for pool enclosures, tested to withstand corrosive cleaners typically used in outdoor pool environments. Both the device and trim are built with weather resistant components that can withstand the harsh conditions of various climates. Understanding that hardware solutions need to be flexible and configurable, the Von Duprin 98/9952 with 252L trim is designed to meet the very specific needs of outdoor pool areas.

Engineered to be installed easily, the 98/9952 device can be mounted within the required range by the model codes and accessibility standards, while the 252L trim is mounted at least 54” from finished floor or concrete. Gate poles must have at least 3” stile width by 2” depth for ideal installation.

Compliance
- Listed with UL for panic exit hardware (UL 305)
- Certified to ANSI/BHMA A156.3 2014, Grade 1
- Meets International Building Code for pool enclosures
- Compliant with the 2010 ADA Standards for Accessible Design

Features and benefits
- Patent-pending design built to meet code requirements for pool enclosures
- Weather-resistant components ideal for outdoor applications
- Easy installation and maintenance
- Simple to operate
- UL listed for panic exit hardware (UL305)

Specifications

<table>
<thead>
<tr>
<th>Device functions</th>
<th>EO, L, L-BE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogging</td>
<td>LD – Less dogging</td>
</tr>
<tr>
<td>Device lengths</td>
<td>3’, 4’</td>
</tr>
<tr>
<td>Center case</td>
<td>8” x 2 1/4” x 2 1/4” (203mm x 70mm x 60mm)</td>
</tr>
<tr>
<td>Mechanism case</td>
<td>2 1/4” x 2 1/4” (57mm x 57mm)</td>
</tr>
<tr>
<td>Latch bolt</td>
<td>Deadlocking 3/4” (19mm) throw</td>
</tr>
<tr>
<td>Trims</td>
<td>252-L, 252-LBE</td>
</tr>
<tr>
<td>Strike</td>
<td>699 roller strike</td>
</tr>
<tr>
<td>Finishes</td>
<td>626, 710</td>
</tr>
<tr>
<td>Options</td>
<td>WH – Weep holes</td>
</tr>
</tbody>
</table>

Accessories

699 Roller strike
Trim functions

Von Duprin protects your investment by empowering you to adapt with flexible solutions and modular options. The 98/99 Series features numerous trim options to serve your different needs. Designed with flexibility in mind, our solutions offer ease of adding new options as they are developed.

With Von Duprin, you can be confident that as the needs of your facility change, our products can be upgraded easily to meet your needs, especially as the mechanical and electronic technology converge. Von Duprin’s versatile design enables you to add functionality to existing devices in a cost-effective way, protecting your investment well into the future.

A variety of device trim lock type functions such as key lock and unlock, latch bolt retraction with key and no cylinder designs for an “always operable” function are available in levers, knobs, latches, thumbpiece and thumbturn designs.

<table>
<thead>
<tr>
<th>Trim options</th>
<th>EO</th>
<th>DT</th>
<th>NL</th>
</tr>
</thead>
<tbody>
<tr>
<td>No outside trim</td>
<td>Exit only</td>
<td>Pull when dogged (not recommended for fire device)</td>
<td>Key retracts latchbolt, Rim and 1 ¼” mortise cylinder</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trim options</th>
<th>NLOP</th>
<th>TP</th>
<th>TPBE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Night latch</td>
<td>Key retracts latchbolt, pull required</td>
<td>Key locks and unlocks, Rim and 1 ¼” mortise cylinder</td>
<td>Blank escutcheon always operable (no cylinder, use with DT trim)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trim options</th>
<th>L</th>
<th>K</th>
<th>LDT</th>
<th>KDT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lever</td>
<td>Knob</td>
<td>Lever, dummy trim</td>
<td>Knob, dummy trim</td>
<td>Pull when dogged</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trim options</th>
<th>LBE</th>
<th>KBE</th>
<th>TL</th>
<th>TLBE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lever, blank escutcheon</td>
<td>Knob, blank escutcheon</td>
<td>Turn lever</td>
<td>Turn lever, blank escutcheon</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trim options</th>
<th>TLOP</th>
<th>HL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn lever, optional pull</td>
<td>Hospital latch</td>
<td></td>
</tr>
</tbody>
</table>

Key locks and unlocks, Rim and 1 ¼” mortise cylinder | Key locks and unlocks, 1 ¼” mortise cylinder |
## Trim options

### No trim

<table>
<thead>
<tr>
<th>Trim description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nomenclature</td>
<td>EO</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Trim function</td>
<td>No outside trim</td>
</tr>
<tr>
<td>Function description</td>
<td>Exit only</td>
</tr>
<tr>
<td>ANSI function</td>
<td>01</td>
</tr>
</tbody>
</table>

### Device compatibility

<table>
<thead>
<tr>
<th>Device type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>98/99/ XP98/XP99 Rim</td>
<td>-</td>
</tr>
<tr>
<td>98/99/ XP98/XP99 Rim-F</td>
<td>-</td>
</tr>
<tr>
<td>98/9927/27-F</td>
<td>-</td>
</tr>
<tr>
<td>98/9947/47-F</td>
<td>-</td>
</tr>
<tr>
<td>98/9947WDC/WDC-F</td>
<td>-</td>
</tr>
<tr>
<td>98/9948/48-F</td>
<td>-</td>
</tr>
<tr>
<td>98/9949/49-F</td>
<td>-</td>
</tr>
<tr>
<td>98/9950WDC/50WDC-F</td>
<td>-</td>
</tr>
<tr>
<td>98/9952†</td>
<td>-</td>
</tr>
<tr>
<td>98/9957/57-F</td>
<td>-</td>
</tr>
<tr>
<td>98/9975/75-F</td>
<td>-</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Escutcheon plate size</td>
<td>-</td>
</tr>
<tr>
<td>Pull center to center</td>
<td>-</td>
</tr>
<tr>
<td>Projection</td>
<td>-</td>
</tr>
</tbody>
</table>

### Handing

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>-</td>
</tr>
</tbody>
</table>

### Cylinder type

<table>
<thead>
<tr>
<th>Cylinder type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rim or vertical device</td>
<td>-</td>
</tr>
<tr>
<td>Mortise lock device</td>
<td>-</td>
</tr>
</tbody>
</table>

† Default trim is 252L /L-BE. Must be ordered as EO when paired with other trims (ordered separately).
**Trim options**

**996 trim**

![Image of 996 trim options]

<table>
<thead>
<tr>
<th>Nomenclature</th>
<th>996EO</th>
<th>996L*</th>
<th>996L-NL</th>
<th>996L-BE*</th>
<th>996L-DT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trim function</td>
<td>Exit only plate</td>
<td>Lever</td>
<td>Lever-night latch</td>
<td>Lever-blank escutcheon</td>
<td>Lever-dummy trim</td>
</tr>
<tr>
<td>Function description</td>
<td>Exit only plate</td>
<td>Key locks and unlocks</td>
<td>Key retracts latch bolt</td>
<td>Always operable, no cylinder</td>
<td>Pull when dogged</td>
</tr>
<tr>
<td>ANSI function</td>
<td>01</td>
<td>08</td>
<td>03</td>
<td>14</td>
<td>02</td>
</tr>
</tbody>
</table>

**Device compatibility**

- 98/99 Rim/Rim-F
- XP98/XP99 Rim/Rim-F
- 98/9927/27-F
- 98/9947/47-F
- 98/9948/48-F
- 98/9949/49-F
- 98/9950WDC/50WDC-F
- 98/9952†
- 98/9957/57-F
- 98/9975/75-F

**Dimensions**

- Escutcheon plate size: 2 3/4" x 10 1/4" x 7/32" (70 x 273 x 21mm)
- Pull center to center: 2 7/16" (73mm) 2 7/16" (73mm) 2 7/16" (73mm) 2 7/16" (73mm)
- Projection: Handed/reversible
- Handing: Handed/reversible
- Cylinder type:
  - Rim or vertical device: Handed/reversible
  - Mortise lock device: Handed/reversible

* Specify R/V if used for rim and vertical devices, M for mortise device. Example, 996L-R/V or 996L-M.
† Default trim is 252L/L-BE. Must be ordered as EO when paired with other trims (ordered separately).
### Trim options

#### 996 trim

<table>
<thead>
<tr>
<th>Nomenclature</th>
<th>996K*</th>
<th>996K-NL*</th>
<th>996K-BE*</th>
<th>996K-DT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trim function</td>
<td>Knob</td>
<td>Knob-night latch</td>
<td>Knob- blank escutcheon</td>
<td>Knob - dummy trim</td>
</tr>
<tr>
<td>Function description</td>
<td>Key locks and unlocks</td>
<td>Key retracts latch bolt</td>
<td>Always operable, no cylinder</td>
<td>Pull when dogged</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ANSI function</th>
<th>08</th>
<th>03</th>
<th>14</th>
<th>02</th>
</tr>
</thead>
</table>

#### Device compatibility

|----------------------|---------------------|-----------------------|---------------|---------------|------------------|---------------|---------------|------------------|---------------|----------------|---------------|

#### Dimensions

<table>
<thead>
<tr>
<th>Escutcheon plate size</th>
<th>2 7/8&quot; x 10 1/8&quot; x 7/32&quot; (70 x 273 x 21mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pull center to center</td>
<td>—</td>
</tr>
<tr>
<td>Projection</td>
<td>3 1/4&quot; (83mm)</td>
</tr>
<tr>
<td>Handing</td>
<td>—</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cylinder type</th>
<th>Rim or vertical device</th>
<th>Rim or vertical device</th>
<th>Mortise lock device</th>
<th>Mortise lock device</th>
</tr>
</thead>
</table>

* Specify R/V if used for rim and vertical devices, M for mortise device. Example, 996K-R/V or 996K-M.
† Default trim is 252L /L-BE. Must be ordered as EO when paired with other trims (ordered separately).
990 trim

Trim description

<table>
<thead>
<tr>
<th>Nomenclature</th>
<th>990EO</th>
<th>990DT</th>
<th>990NL*</th>
<th>990TP*</th>
<th>990TP-BE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trim function</td>
<td>Exit only plate</td>
<td>Dummy trim</td>
<td>Night latch</td>
<td>Thumbpiece</td>
<td>Thumbpiece blank escutcheon</td>
</tr>
<tr>
<td>Function description</td>
<td>Exit only plate</td>
<td>Pull when dogged</td>
<td>Key retracts latch bolt</td>
<td>Key locks and unlocks</td>
<td>Always operable, no cylinder</td>
</tr>
<tr>
<td>ANSI function</td>
<td>01</td>
<td>02</td>
<td>03</td>
<td>05</td>
<td>15</td>
</tr>
</tbody>
</table>

Device compatibility

- 98/99 Rim/Rim-F
- XP98/XP99 Rim/Rim-F
- 98/9927/27-F
- 98/9947/47-F
- 98/9947WDC/WDC-F
- 98/9948/48-F
- 98/9949/49-F
- 98/9950WDC/50WDC-F
- 98/9952†
- 98/9957/57-F
- 98/9975/75-F

Dimensions

- Escutcheon plate size: 3\" x 14 7\(^{1/8}\)\" x 7\(^{1/2}\)\" (76 x 360 x 2mm)
- Pull center to center: 5\(^{1/2}\)\" (140mm)
- Projection: 2\" (51mm)

Handing

- Rim or vertical device
- Mortise lock device

Cylinder type

- Rim or vertical device
- Mortise lock device

Accessories

* Specify R/V if used for rim and vertical devices. M for mortise device. Example, 990NL-R/V or 990NL-M.
† Default trim is 252L/L-BE. Must be ordered as EO when paired with other trims (ordered separately).
## Trim options

### 696 trim

<table>
<thead>
<tr>
<th>Trim description</th>
<th>696DT</th>
<th>696NL*</th>
<th>696TP*</th>
<th>696TP-BE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nomenclature</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trim function</td>
<td>Dummy trim</td>
<td>Night latch</td>
<td>Thumbpiece</td>
<td>Thumbpiece blank escutcheon</td>
</tr>
<tr>
<td>Function description</td>
<td>Pull when dogged</td>
<td>Key retracts latch bolt</td>
<td>Key locks and unlocks</td>
<td>Always operable, no cylinder</td>
</tr>
<tr>
<td>ANSI function</td>
<td>02</td>
<td>03</td>
<td>05</td>
<td>15</td>
</tr>
</tbody>
</table>

### Device compatibility

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td>□</td>
<td>□</td>
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<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Escutcheon plate size</th>
<th>1 1/4&quot; x 1 1/4&quot; x 1/8&quot; (41 x 343 x 5mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pull center to center</td>
<td>5 1/2&quot; (140mm)</td>
</tr>
<tr>
<td>5 1/2&quot; (140mm)</td>
<td>5 1/2&quot; (140mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>5 1/2&quot; (140mm)</td>
</tr>
<tr>
<td>2 1/4&quot; (52mm)</td>
<td>2 1/4&quot; (52mm)</td>
</tr>
<tr>
<td>2 1/4&quot; (52mm)</td>
<td>2 1/4&quot; (52mm)</td>
</tr>
<tr>
<td>Handing</td>
<td></td>
</tr>
<tr>
<td>Rim or vertical device</td>
<td></td>
</tr>
<tr>
<td>Mortise lock device</td>
<td></td>
</tr>
<tr>
<td>Mortise lock device</td>
<td></td>
</tr>
</tbody>
</table>

### Cylinder type

| Rim or vertical device | Rim | Rim | — |
| Mortise lock device    | 1 1/4" mortise | 1 1/4" mortise | — |

* Specify R/V if used for rim and vertical devices, M for mortise device. Example, 696NL-R/V or 696NL-M.
† Default trim is 252L /L-BE. Must be ordered as EO when paired with other trims (ordered separately).
### Trim options

#### 697 trim

<table>
<thead>
<tr>
<th>Trim description</th>
<th>Nomenclature</th>
<th>697DT</th>
<th>697NL*</th>
<th>697TP*</th>
<th>697TP-BE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trim function</td>
<td>Dummy trim</td>
<td>Night latch</td>
<td>Thumbpiece</td>
<td>Thumbpiece blank escutcheon</td>
<td></td>
</tr>
<tr>
<td>Function description</td>
<td>Pull when dogged</td>
<td>Key retracts latch bolt</td>
<td>Key locks and unlocks</td>
<td>Always operable, no cylinder</td>
<td></td>
</tr>
<tr>
<td>ANSI function</td>
<td>02</td>
<td>03</td>
<td>05</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

#### Device compatibility

| 98/99 Rim/Rim-F | ■ | ■ | ■ | ■ |
| XP98/XP99 Rim/Rim-F | ■ | ■ | ■ | ■ |
| 98/9927/27-F | ■ | ■ | ■ | ■ |
| 98/9947/47-F | ■ | ■ | ■ | ■ |
| 98/9947WDC/WDC-F | ■ | ■ | ■ | ■ |
| 98/9948/48-F | ■ | ■ | ■ | ■ |
| 98/9949/49-F | ■ | ■ | ■ | ■ |
| 98/9950WDC/50WDC-F | ■ | ■ | ■ | ■ |
| 98/9952† | ■ | ■ | ■ | ■ |
| 98/9957/57-F | ■ | ■ | ■ | ■ |
| 98/9975/75-F | ■ | ■ | ■ | ■ |

#### Dimensions

| Escutcheon plate size | 1 1/2" x 13 1/2" x 3/16" (41 x 343 x 5mm) |
| Pull center to center | 5 1/2" (140mm) | 5 1/2" (140mm) | 5 1/2" (140mm) | 5 1/2" (140mm) |
| Projection | 3" (76mm) | 3" (76mm) | 3" (76mm) | 3" (76mm) |

#### Handing

- - - - -

#### Cylinder type

| Rim or vertical device | Rim | Rim | - |
| Mortise lock device | 1 1/4" mortise | 1 1/4" mortise | - |

* Specify R/V if used for rim and vertical devices, M for mortise device. Example, 697NL-R/V or 697NL-M.
† Default trim is 252L-L-BE. Must be ordered as EO when paired with other trims (ordered separately).
374 Control x DT and 376 Control x DT trim

<table>
<thead>
<tr>
<th>Trim description</th>
<th>374 Control x DT</th>
<th>376 Control x DT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nomenclature</strong></td>
<td>374T x 990DT</td>
<td>374T-BE x 990DT</td>
</tr>
<tr>
<td></td>
<td>374T-NL x 990DT</td>
<td>376T x 990DT</td>
</tr>
<tr>
<td></td>
<td>376T-BE x 990DT</td>
<td>376T-NL x 990DT</td>
</tr>
<tr>
<td><strong>Trim function</strong></td>
<td>Thumbturn</td>
<td>Thumbturn</td>
</tr>
<tr>
<td></td>
<td>Thumbturn - blank escucheon</td>
<td>Thumbturn - night latch</td>
</tr>
<tr>
<td><strong>Function description</strong></td>
<td>Key locks and unlocks, use with DT trim</td>
<td>Always operable, no cylinder, use with DT trim</td>
</tr>
<tr>
<td></td>
<td>Insert key to unlock, remove key to lock</td>
<td>Key locks and unlocks, use with DT trim</td>
</tr>
<tr>
<td></td>
<td>Insert key to unlock, remove key to lock</td>
<td>Always operable, no cylinder, use with DT trim</td>
</tr>
<tr>
<td><strong>ANSI function</strong></td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>12</td>
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</tr>
</tbody>
</table>

**Device compatibility**
- 98/99/XP98/XP99 Rim
- 98/99/XP98/XP99 Rim-F
- 98/9927/27-F
- 98/9947/47-F
- 98/9947WDC/WDC-F
- 98/9948/48-F
- 98/9949/49-F
- 98/9950WDC/50WDC-F
- 98/9952!
- 98/9957/57-F
- 98/9975/75-F

**Dimensions**
- Escutcheon plate size:
  - TL: 1 7/8” x 7 1/2” x 1/4” (43 x 191 x 22mm)
  - DT: 3” x 14 1/8” x 1/8” (76 x 360 x 2mm)
- Pull center to center
- Projection
  - 2” (51mm)
- Handing
- Cylinder type
  - Rim or vertical device
    - 1 1/4” mortise
  - Mortise lock device

† Default trim is 252L /L-BE. Must be ordered as EO when paired with other trims (ordered separately).
Trim options

376 T-WDC Control x DT and 252 trim

<table>
<thead>
<tr>
<th>Trim description</th>
<th>376 T-WDC Control x DT</th>
<th>252 Trim</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nomenclature</td>
<td>376T-WDC x 990DT</td>
<td>252L</td>
</tr>
<tr>
<td></td>
<td>376TWDC-BE x 990DT</td>
<td>252L-BE</td>
</tr>
<tr>
<td></td>
<td>376TWDC-NL x 990DT</td>
<td></td>
</tr>
<tr>
<td>Trim function</td>
<td>Thumbturn</td>
<td>Lever</td>
</tr>
<tr>
<td></td>
<td>Thumbturn - blank escucheon</td>
<td>Lever - blank escucheon</td>
</tr>
<tr>
<td>Function description</td>
<td>Key locks and unlocks, use with DT trim</td>
<td>Always operable, no cylinder, use with DT trim</td>
</tr>
<tr>
<td></td>
<td>Always operable, no cylinder, use with DT trim</td>
<td>Insert key to unlock, remove key to lock</td>
</tr>
<tr>
<td></td>
<td>Key locks and unlocks</td>
<td>Always operable, no cylinder</td>
</tr>
<tr>
<td>ANSI function</td>
<td>11 or 12</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>04</td>
<td>08</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

Device compatibility
98/99 Rim/Rim-F
XP98/XP99 Rim/Rim-F
98/9927/27-F
98/9947/47-F
98/9947WDC/WDC-F
98/9948/48-F
98/9949/49-F
98/9950WDC/50WDC-F
98/9952†
98/9957/57-F
98/9975/75-F

Dimensions
Escutcheon plate size
TL: $1 \frac{3}{4} " \times 7 \frac{1}{2} " \times 1 \frac{1}{16} "$ (43 x 191 x 22mm)
DT: $3 \frac{1}{4} " \times 14 \frac{3}{4} " \times 2 \frac{3}{4} "$ (76 x 360 x 2mm)

Pull center to center

Projection

Handing

Cylinder type
Rim or vertical device
1¼" mortise

Mortise lock device

† Default trim is 252L /L-BE. Must be ordered as EO when paired with other trims (ordered separately).
Optional trim

Schlage® HL6 quiet hospital push/pull latch
Von Duprin and Schlage® have collaborated on an exit device trim that provides both accessibility and performance. In combination, the 98/9975 mortise lock device along with the newly designed Schlage HL6 quiet hospital push/pull latch delivers an exit device with mortise lock durability that utilizes an easy to use, ADA compliant push/pull trim. The HL6 is now 50% quieter through dampened paddle action, reducing the noise associated with lock operation providing healthcare organizations a reliable solution for noise reduction initiatives. The 98/9975HL device is available in most standard architectural finishes, including antimicrobial options. Consult the HL Series catalog or data sheet for complete product information.

392-7 Offset pull
The 392-7 Offset pull is 3/4" round stainless steel, with a 7" center to center which matches the 98/99 center case. Often used with a night latch operation. 3 1/2" (89mm) offset with 1 1/2" (38mm) clearance.

Vandal resistant trim:
Ives VR910 and VR914 Series
VR910 black grip for softer touch and resilience to temperature extremes. VR914 grip in all stainless steel. Grip designed for comfortable operation.

Features:
- Stainless steel construction, 11 gauge (0.120" thick); 630 finish only
- Thru-bolts and rugged mounting screws for maximum fastening strength
- Built-in lock protector prevents vandalism to mortise latch bolt (available on certain models)
- Extra-tough stainless steel cylinder collar prevents pipe wrench or similar tool from damaging cylinder; tapered design prevents side impacts from transferring directly to cylinder; collar spins freely.
- Furnished with mounting screws for door thicknesses of 1 1/2" to 2 1/2"
- 1 1/2" (38mm) clearance from grip to door, total projection 1 7/8" (48mm)
- Consult the Ives catalog for more information

<table>
<thead>
<tr>
<th>Model</th>
<th>For use with</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VR910DT and VR914DT</td>
<td>98/99 Rim or vertical rod device</td>
<td>5 1/2&quot; x 11&quot; (133mm x 279mm)</td>
</tr>
<tr>
<td>VR910NL and VR914NL</td>
<td>98/99 Rim or vertical rod device</td>
<td>5 1/2&quot; x 11&quot; (133mm x 279mm)</td>
</tr>
<tr>
<td>VR910M-75/9975 and VR914M-75/9975 Mortise device</td>
<td>7 1/2&quot; x 11&quot; (184mm x 279mm)</td>
<td></td>
</tr>
<tr>
<td>VR910M-50/9975 and VR914M-50/9975 Mortise device (handing required)</td>
<td>7 1/2&quot; x 11&quot; (184mm x 279mm)</td>
<td></td>
</tr>
</tbody>
</table>
Electronic locks from Schlage

**AD Series**
The AD Series was designed to be the right choice for today, and is ready to adapt to whatever the future holds.

There are a variety of options that allow you to select the AD Series electronic lock that's right for you, and a wide selection of features that can be configured in the field to further customize each opening. When your needs change in the future, the innovative modular design of the AD Series allows you to easily upgrade the credential reader or networking option, and adapt to emerging technologies using your existing chassis – all without taking the lock off the door. This means that you can be confident that your choice of the AD Series is right for today, and that your investment will be protected into the future.

**Credential reader options**
AD Series electronic locks are compatible with many different credential types.

- Multi-technology (reads 125 kHz prox and 13.56 MHz smart)
- Smart - iClass compatible
- Magnetic stripe (insertion)
- Magnetic stripe (swipe)
- Keypad

**Communication options**

**Networked**
In facilities where increased monitoring and control are needed, a networked solution is essential. The AD Series networked options feature:

- Open architecture platform
- Reliable 900 MHz communicationon wireless locks
- Real-time monitoring

The AD Series networked lock is available in either a wireless or hardwired configuration to fit your application needs.

- **AD-300** Networked hardwired locks
- **AD-302** Networked hardwired FIPS 201-2 integration-ready locks
- **AD-400** Networked wireless locks
- **AD-402** Networked wireless FIPS 201-2 integration-ready locks

**Standalone**
Standalone locks are a cost-effective solution for doors that do not require real-time monitoring. The AD Series standalone solution provides:

- Option for future upgrade to networked wireless
- Improved credential management
- Audit trail reports

Schlage offers two AD Series standalone solutions to fit your environment:

- **AD-200** Access rights are stored on the lock
- **AD-250** Access rights are stored on the magnetic stripe credential

**Chassis**

- Cylindrical
- Mortise
- Mortise deadbolt
- Exit trim

**Locking functions**

- Classroom/storeroom
- Office
- Privacy
- Apartment

**Certifications**

- ANSI/BMHA A156.25
- ANSI/BHMA Grade 1
- UL 294 listed
- FCC part 15
- UL 10C
- ADA
- RoHS

**Complete your system**
Complete your AD Series system with readers, credentials, system components, and other wireless accessories.

1. See AD Series exit trim compatibility data sheet for complete list of compatibility by manufacturer.
2. Lock function capability varies depending on Physical Access Control Software (PACS) OEM integration design.

**CO Series**
In the world of standalone electronic locks, CO Series offers simple solutions for access control. These easy-to-use, versatile locks can be applied anywhere there is a need to control access without distributing keys. The popular CO-100 is a simple lock that momentarily unlocks with a valid PIN code entry. It can be used indoors or out and allows administrators a variety of command options. The Series also includes CO-200, the CO-220 classroom lock, and the CO-250. These computer programmable locks can provide audit trails and feature dual credential options (card+PIN) that provide an even greater level of security.

**Compatibility**
The CO Series offers a wide range of applications and can be used alongside other Schlage electronic locks. They feature expanded cylinder, exit device, and credential compatibility.
Electronic locks from Schlage

Exit device compatibility

<table>
<thead>
<tr>
<th>Device</th>
<th>Rim</th>
<th>SVR</th>
<th>CVR/CVC</th>
<th>Mortise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Von Dupin 98/99 and 98/99 XP</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Von Dupin 22/22F</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Falcon 25</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. See CO Series exit trim compatibility datasheet for complete list of compatibility by manufacturer.
2. CO-220 is not compatible with surface vertical rod (SVR) devices.
Note: Exit device must be ordered as Exit Only (EO).

Credential compatibility
The CO Series is compatible with many different credential types. For customers with an installed base of iButtons®, a combo proximity keyfob with iButton option is available to make an easy transition to proximity technology.

Class
CO-100
- Manually programmable
- Keypad only
- User rights stored on the lock
- Remote release, outdoor use and occupancy indication options

CO-200
- Computer or manually programmable
- Keypad, magnetic stripe (+PIN), proximity (+PIN)
- User rights stored on the lock
- Ability to provide schedules and audits

CO-220
- Computer or manually programmable
- Keypad, magnetic stripe (+PIN), proximity (+PIN)
- User rights stored on the lock
- Ability to provide schedules and audits
- Classroom lockdown function via fob

CO-250
- Computer programmable
- User rights stored on the card

Chassis
- Cylindrical
- Mortise
- Mortise deadbolt
- Exit trim

Functions
- Classroom/storeroom
- Office
- Privacy

Power
- 4 standard (AA) batteries

Reliability
When it comes to securing your facility, you can’t afford to take chances. CO Series locks are tested to the highest quality and reliability standards in the industry, including:
- ANSI/BHMA A156.25 and ANSI/BHMA Grade 1
- UL 294
- UL 10C
- ADA

Lever styles and finishes for AD and CO Series

Lever options

Finish options

<table>
<thead>
<tr>
<th>Color</th>
<th>Bright brass</th>
<th>Satin brass</th>
<th>Satin bronze</th>
<th>Satin nickel</th>
<th>Bright chrome</th>
<th>Satin chrome</th>
<th>Aged bronze</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI/BHMA number</td>
<td>605</td>
<td>606</td>
<td>612</td>
<td>619</td>
<td>625</td>
<td>626/626AM</td>
<td>643e</td>
</tr>
</tbody>
</table>
Dogging options

**Cylinder dogging (CD)**
Cylinder dogging is available on all 98/99 Panic exit devices to replace the standard hex key dogging. Unit requires a standard 1/4" (32mm) mortise cylinder with an inverted straight cam. When ordering, reference Schlage cylinder 20-001, 1/4", XQ11-949. This provides the L583-477 cam inverted at the factory.

**To order, specify:** Use prefix CD, example CD99L

**Less dogging (LD)**
Less dogging is available in all 98/99 Panic exit devices to remove the dogging option.

**To order, specify:** Use prefix LD, example LD99L

**Special center case dogging (SD)**
Special cylinder dogging in the center case is available for Chexit, EL, QEL, ALK panic devices to allow for mechanical push/pull operation. With this option, the latch bolt is held retracted and pushbar is still operable. Specify handing—RHR or LHR.

SD requires 1/4" (32mm) mortise cylinder with an inverted straight cam. When ordering, reference Schlage cylinder 20-001, 1/4", XQ11-949. This provides the L583-477 cam inverted at the factory.

**To order, specify:**
1. Prefix SD, example SD99L and Handing.

**Cylinder dogging kit* (CDK)**
For field conversion, from hex key dogging, conversion kit is available.

**To order, specify:** 99CDK or 98CDK, specify finish.

*Cannot be added to fire exit hardware.

**Hex key dogging kit* (HDK)**
For field conversion, from cylinder dogging, conversion kit is available.

**To order, specify:** 99HDK or 98HDK, specify finish.

*Cannot be added to fire exit hardware.

**Dog keys**
- **Dog key (old style)**
  - 2 3/16" (56mm) steel dog key

- **Dog key (standard)**
  - 3/4" (6mm) hex

  - 5/32" (4mm) hex

**Dogging indicator (CI/DI)**
- Red indicator light every 5 seconds, visible from over 75 feet away
- Available in a hex or cylinder dogging format
- Designed for battery life over one year
- Available as a factory option or field retrofit kit
- Designed for device with mechanical dogging built after 1997

**To order, specify:**
As device option:
1. DI99EO 3' 630 (hex dogging)
2. CDI98EO 4' 628 (cylinder dogging)

As retrofit kit:
1. DI Retrofit Kit 3' 662 (hex dogging)
2. CDI Retrofit Kit 4' 613 (cylinder dogging)
Classroom security/security indicators

Designed for high use and abuse institution environments, such as schools and hospitals, these Von Duprin products are recommended for the following applications:

**Visual verification**
Reduce the time it takes to tour your facility and ensure each door is secure by installing the Von Duprin security indicator to provide at-a-glance visual verification.

**Lockdown**
Lock down high occupancy areas such as auditoriums, cafeterias and gymnasiums, from inside the room with the Von Duprin security indicator that provides positive visual confirmation.

**Features and benefits**
- Lockdown solution that meets fire and life safety codes for free egress
- Modular conversion kits allow you to quickly and easily upgrade your existing devices

-2SI security indicator with double cylinder
  - Thumbturn or key cylinder with lock/unlock labels provide a clear direction of rotation to secure opening
  - Available for 98/99 Series rim devices

CDSI/HDSI dogging indicator
- Hex or cylinder dogging options
- Visual indication of whether the exit device is dogged or undogged
- Available for 98/99 & 33A/35A Series panic devices

**Double cylinder with security indicator (-2SI)**
The -2SI Security Indicator provides an at-a-glance verification of the LOCKED/UNLOCKED status of the door from inside of the room. This option can be ordered as a new product or as a retrofit conversion kit to an existing 98/99 rim device. Indicator in “UNLOCKED” state presents a 1/2" x 1/2" metal flag (unlock icon, laser cut into flag) at top of device head. Indicator in “LOCKED” state has no flag present.

**To order, specify:**
2. Available with L, TP or K functions. Specify handing.
   - Rim cylinder (3126) sold separately. Rim cylinder T-turn available from Schlage, order part number XB 11-979.

**Dogging security indicators (CDSI/HDSI)**
The CDSI/HDSI dogging indicator provides an at-a-glance verification of the status of the door from inside of the room. Visible “LOCKED” and “UNLOCKED” indicators show whether the device is undogged or dogged. This feature can be used with hex key (HDSI) or cylinder dogging (CDSI) options on various device types—rim, mortise and vertical systems.

**To order, specify:**
1. Cylinder dogging security indicator: Prefix CDSI.
2. Hex dogging security indicator: Prefix HDSI.
3. Above options cannot be used with fire-rated devices and are recommended for use in combination with the following trim functions - DT, K-DT, L-DT, EO, NL, K-NL, L-NL, NL-OP.

**Double cylinder**
Double cylinder features an inside key cylinder which locks or unlocks the outside trim and an outside key cylinder which retracts the latch bolt only (Night latch function). Available on rim or mortise lock device.

Rim requires two rim type cylinders. Mortise device requires 1 rim cylinder and 1 mortise cylinder 1 1/4" with a straight cam. (Schlage cam reference L583-477.) Available functions are thumbpiece, knob or lever.

**To order, specify:**
1. Suffix -2 with device/trim number, example 99TP-2.
2. Handing required, LHR or RHR.
Quiet Mechanical (QM)
The QM option controls motion to reduce operational noise. It is available for the 996 trim, as well as 98/99 and 33A/35A rim and surface vertical rod devices. The QM trim solution provides a damper-controlled lever return. Likewise, the QM rim device option provides damper-controlled re-latching.

Features and benefits
- Controlled motion to reduce operational noise
- 996 damper-controlled lever return
- 98/99 and 33/35A damper controlled re-latching
- Available pre-installed from factory or as a retrofit kit
- Compatible with QEL, AX, RX, CD and HD

Pneumatic (PN) controlled exit devices

The PN feature provides remote latch bolt retraction in hazardous areas where electrically operated devices would not be permitted. The pneumatic solenoid will retract the latch bolt for momentary or prolonged periods. PN exit devices are particularly suited for use with automatic door operators. The PN feature is available on both Panic and fire exit hardware devices.

Environmental options

The PN feature includes a special actuating linkage that gives building owners the option of mechanically or pneumatically dogging the exit device. If manual hex-key dogging is required, specify HD-PN (Dogging the device, whether mechanically or pneumatically, makes the device function as a push/pull unit and reduces the wear on its moving parts.) If cylinder dogging is required, the standard cylinder dogging is not available, but special center case dogging is available, specify SD-PN. SD-PN is not available on the 9875 or 9975 devices.

When activated pneumatically, the latch bolt(s) of the exit device retract in \( \frac{1}{2} \) to \( \frac{3}{2} \) seconds. This pneumatic operation uses air pressure ranging from 50 to 100 pounds per square inch.

This product will function only when it is part of a pneumatic system (air compressor, air lines, pneumatic system, etc.) Contact LCN for correct control boxes.

To order, specify:
- Standard — Use prefix PN, example PN99NL
- Hex key dogging — Use prefix HD-PN, example HD-PN99NL
- Special center case dogging (handed is required, specify RHR or LHR) — Use prefix SD-PN, example SD-PN99NL

Pneumatic transfer (PNT)
Pneumatic controls

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

Windstorm (WS) surface vertical rod one-point and three-point exit devices
WS Multi-point exit devices for tornado application devices WS98/9927 (two-point) and WS98/9957 (three-point) surface vertical rod exit devices are designed, tested and certified to comply with the Federal Emergency Management Agency’s publication FEMA 361- Design and Construction Guidance for Community Safe Rooms.

Features and benefits
- Uniquely designed center case
- Vertical rods designed to reinforce the strength of the door
- Reinforced top and bottom latch housing with strengthening strap
- Stamped end cap mounting bracket
- Top soffit latch with reinforced ratchet release bracket
- Cast latch covers
- Stronger latch mounting screws
- Thru-bolted attachment points

UL Listing – panic hardware UL 305; and fire exit hardware UL 10C:
WS98/9927:
- 3 hour pairs of doors double egress, 90 minutes swinging same direction, 8’0” x 8’0” BHMA Grade 1, ANSI A156.3-2001

WS98/9957:
- 3 hours single doors, 4’0” x 8’0” BHMA Grade 1, ANSI A156.3-2001

Windstorm ratings:
WS98/9927:
- Door applications 8’0” x 8’0” (2438mm x 2438mm) pairs (swinging same direction); 4’0” x 8’0” (1219mm x 2438mm) single (non-fire rated only) flush hollow metal
- Florida Building Code Compliance
- Compliance to TAS 201, TAS 202, TAS 203; design load rating +150/-150 PSF (245 mph wind zone); Enhanced Hurricane Protection (EHPA) ASTM E1996; ANSI/ICC 500 (245 mph wind zone)
- UL-FEMA 361 Compliance to TAS 201, TAS 202, TAS 203; design load rating +150/-150 PSF (245 mph wind zone); Enhanced Hurricane Protection (EHPA) ASTM E1996; ANSI/ICC 500 (245 mph wind zone)

WS98/9957:
- Door applications 4’0” x 8’0” (1219mm x 2438mm) single (panic and fire rated) flush hollow metal
- UL-FEMA 361 Certified 4’0” x 8’0” (1219mm x 2438mm) single (panic and fire rated) flush hollow metal

These devices are listed with Steelcraft Paladin™ Doors for tornado listing and Steelcraft H and HE Series doors for hurricane listings

To order, specify: WS prefix, example WS9927-F

Specifications

<table>
<thead>
<tr>
<th>Device functions</th>
<th>Device ships EO (exit only). For TP (Thumbturn), K (Knob), or L (Lever). Remove NL drive screw from device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device lengths</td>
<td>Top: 3’ 2/4” to 3’ (71mm to 914mm) door size Bottom: 4’ 10” to 4’ (864mm to 1219mm) door size</td>
</tr>
<tr>
<td>Strikes</td>
<td>Bottom – 304L Unfinished</td>
</tr>
<tr>
<td>Dogging feature</td>
<td>Hex key dogging standard (Panic)</td>
</tr>
<tr>
<td>Dogging options</td>
<td>CD Cylinder dogging</td>
</tr>
<tr>
<td></td>
<td>LD Less dogging</td>
</tr>
<tr>
<td>Electrical options</td>
<td>LX Latch bolt monitor switch</td>
</tr>
<tr>
<td></td>
<td>RX Request to exit</td>
</tr>
<tr>
<td></td>
<td>RX-2 Double request to exit</td>
</tr>
<tr>
<td></td>
<td>ALK Alarm exit kit</td>
</tr>
<tr>
<td></td>
<td>SS Signal switch</td>
</tr>
<tr>
<td></td>
<td>QEL Quiet electric latch</td>
</tr>
<tr>
<td>Fasteners and sex bolts (SNB)</td>
<td>Includes 1 1/4” (44mm) metal doors SNB furnished for top and bottom latches and device (required)</td>
</tr>
<tr>
<td>Device centerline from finished floor</td>
<td>39 1/4” (1003mm)</td>
</tr>
<tr>
<td>Door undercut</td>
<td>1/4” (7mm)</td>
</tr>
<tr>
<td>Center case dimensions</td>
<td>8” x 2 1/4” x 2 1/4”</td>
</tr>
<tr>
<td>Mechanism case dimensions</td>
<td>2 1/4” x 2 1/4” (57mm x 57mm)</td>
</tr>
<tr>
<td>Top and bottom latch case</td>
<td>4 1/4” x 2 1/4” x 1 1/4” (114mm x 64mm x 48mm)</td>
</tr>
<tr>
<td>Vertical rods</td>
<td>1/2” (13mm) round tubing, standard rods accommodate 7’ (2134mm) door</td>
</tr>
<tr>
<td></td>
<td>Top rod length is 36 1/4” (921mm)</td>
</tr>
<tr>
<td></td>
<td>Bottom rod length is 31 1/4” (806mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>Pushbar neutral – 3 3/4” (97mm)</td>
</tr>
<tr>
<td></td>
<td>Pushbar depressed – 3 1/4” (78mm)</td>
</tr>
<tr>
<td>Finishes</td>
<td>605, 606, 612, 625, 626, 628, 710, 711 and 630*</td>
</tr>
<tr>
<td></td>
<td>*630 available on WS9827 and WS9857 devices only</td>
</tr>
</tbody>
</table>

Weep holes (WH)
WH is available for all 98/99 Series exit devices. Weep holes are ideal for devices that are mounted to exterior doors that can be exposed to rain and other elements. Hole spacing on 3’ and 4’ devices devices are every 6” on center. A 3 foot device will have 5 holes, a 4 foot device will have 7 holes.

To order, specify: Suffix WH, 99EO-WH.
**Mechanical options**

**Accessibility options**

**Accessible device (AX)**
The AX device is a UL certified exit device designed to meet the progressive requirements of the California Building Code for accessible openings. This device meets the 5 lbs of operating force requirement called for in chapter 11B-309.4. The AX device also exceeds ANSI/BHMA requirements. Available devices include: AX98/99, AX98/99-F, AX98/9927LBR, AX98/9927-F LBR, AX98/9949LBL, AX98/9949-FLBL, AX98/9949-F LBLAFL, AX98/9950LBL, AX98/9950-FLBL. Additionally, all AX devices will be shipped with a new UL label clearly stating “Meets California building Code (2013) Sec. 11B-309.4” and an “AX” identifier label on device center case. See images below for reference.

**Latches**

**Less bottom rod, panic and fire rated (LBR)**
LBR option is available, using a spring loaded auxiliary latch bolt installed in the lower door edge. When exposed to heat the auxiliary latch bolt releases, keeping the doors in alignment and closed during a fire. UL listed 3 hours on hollow metal doors double egress, 90 minute swinging same direction, and 20 minutes wood doors (consult wood door manufacturer). Fits door stiles as narrow as 3 5/8". LBR devices must be ordered in pairs or must be used in conjunction with an approved automatic or constant latching flush bolt.

**Pullman latch (PL)**
When PL is specified the standard latches are replaced with pullman style latches. Pullman latches are always extended and are most commonly used in conjunction with electric strikes and LBR-less bottom rod application. Not available with Fire rated devices. Not recommended where security is of the utmost importance since latches do not deadlock.
**Mechanical options**

## Push pads

### Dummy push pad

The 330 dummy push pad is designed as a companion unit for all 99 devices. The 350 dummy push pad is a companion unit for all 98 devices. The push pad is rigid or nonfunctioning. A push/pull operation can be accomplished by using 990DT, 996DT trim or any Ives Pull.

The 330/350 can be equipped with a functional push pad and will accommodate an RX or WP-RX switch. Specify RX-330.

May also be equipped with the RX2, double RX switch.

**To order, specify:**
1. 330 or 350.
2. Size 3' or 4' (914mm or 1219mm)
3. Finish – 605, 606, 612, 625, 626, 628, 710 and 622/711. (630 – 350 only)
4. Specify RX, WP-RX or RX-2 if desired.

### Safety glow (SG)

Self-illuminating touchpad defines the location of the exit door in dark or smoke-filled area. The safety glow coating is a special powder coat finish that glows brightly during low or no light conditions. This coating was developed to meet MEA standards where luminescent exit door markings are required in commercial facilities. There are no batteries or electronics, the coating is charged when exposed to light.

**To order, specify:** Suffix SG, EL 9927L-SG

## Red silk screen (RSS)

Red silkscreen lettering on touchpad trim. - "Emergency Exit Only, Push To Open And Sound Alarm". This comes standard on RSS devices.

**To order, specify:** Suffix RSS, 9927L-RSS RHR

## Braille, embossed and knurled touchpads

Braille touchpad embossed with the standard message “CAUTION STAIRWELL” in braille and raised letters provides assistance to persons with impaired vision. Letters are 1/8" (13mm) high and braille is #2, raised height is 3/32" (2mm). Other messages are available on special order, limited to 20 characters per line.*  **To order, specify:** Suffix BR, EL9927L-BR.

Embossed touchpad is embossed with the word “PUSH”. **To order, specify:** Suffix EMB, EL9927L-EMB.

Knurled touchpad is to provide warning to persons with impaired vision. **To order, specify:** Suffix PBKN, EL9927L-PBKN.

*Image shown is a special order.

*Consult factory for availability.
Latch retraction

**Quiet electric latch retraction (QEL)**
Quiet electric latch retraction (QEL) provides electronic control of an exit device for environments where limited operational noise is desired. These devices always provide mechanical egress. The electrified latch retraction can also be activated by an access system or building automation system to unlatch the exit device momentarily. Often the QEL is used with a credential reader and access control system to unlock the door momentarily for authorized users.

The QEL can also be configured to electronically retract the latch for an extended period of time to allow free entry. This is a convenient alternative to mechanical dogging. If manual dogging is required, the hex dogging option is available, to order specify HD-QEL. Special center case dogging is also available for 98/99 rim and vertical systems, specify SD-QEL.

The QEL option is available on panic devices and fire rated devices. UL approved for Class II circuit applications.

The QEL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to EPT-2 power transfer and the PS902 or 914 power supply.

The PS902/914 with the 2RS, 4RL or 4R board is the minimum required. Other option boards available for other functions, see PS902/914 power supply for additional information.

The QEL has a low in rush current, so it can be used with standard Schlage power supplies. Calculate the peak current draw of all devices in the system to determine the required amperage of the supply.

The -2RS option board is designed to control two electric latch retraction devices and provide time delay between the firing of outputs is required. The power transfer is also sold separately.

### To order, specify:

1. **Standard** — use prefix QEL, example QEL99L.
2. **Special center case dogging** — use prefix SD-QEL, example SD-QEL99L

Note: Baseplate and modular QEL Conversion kits are available for field retrofit. Please see parts/service manual for part numbers.

<table>
<thead>
<tr>
<th></th>
<th>Schlage PS902</th>
<th>Schlage PS904</th>
<th>Schlage PS906</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to</td>
<td>2 amps</td>
<td>4 amps</td>
<td>6 amps</td>
</tr>
</tbody>
</table>

#### QEL Electrical load

- **Voltage**: 24VDC
- **Current**: 1.0 A Inrush (0.5 sec.) / 0.14 A Holding

#### Minimum door opening widths

<table>
<thead>
<tr>
<th>Application</th>
<th>Surface vertical</th>
<th>Concealed vertical</th>
<th>Mortise</th>
<th>Rim</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. door opening</td>
<td>28 1/4&quot;</td>
<td>28 1/4&quot;</td>
<td>28 1/4&quot;</td>
<td>29 1/4&quot;</td>
</tr>
</tbody>
</table>

#### Popular application

Power supply PS902-2RS
Electrified power transfer
EPT-2 or EPT-10

**a**

- **Distance (one-way)**
  - 200' : 18 AWG
  - 320' : 16 AWG
  - 500' : 14 AWG
  - 800' : 12 AWG

**b**

- **Wire selection**
  - Switch wire size
  - 1200 ft. Max. : 18 gauge standard
Latch retraction

Electric latch retraction (EL)
The Electric latch retraction (EL) option provides electronic control of an exit device using a powerful, continuous duty solenoid. If manual dogging is required, special center case dogging is also available for 98/99 rim and vertical systems, specify SD-EL. SD-EL is not available on 9875 or 9975 devices. UL approved for Class II circuit applications.

The EL option does not include the power transfer from door to frame, the power supply, or the control operator. Refer to EPT-2 power transfer and the PS914 power supply.

The PS914 with the 9002RS option card is the minimum option card required. Other option cards available for other functions, see PS914 power supply for additional information.

Solenoid specifications:
- Solenoid resistance:
  - Continuous duty – 24 VDC
    - grn-yel 1.2 – 2.2 OHMS
  - Current inrush – 16 amps
    - grn-org 100 – 150 OHMS
  - Current holding – 0.3 amps

To order, specify:
1. Standard – Use prefix EL, example EL99L.
2. Hex Key dogging – Use prefix HD-EL, example HD-EL99L.
3. Special center case dogging – Use prefix SD-EL, example SD-EL99L.

Note: Baseplate and El Conversion kits are available for field retrofit. Please see parts/service manual for part numbers.

Minimum door opening widths

<table>
<thead>
<tr>
<th>Application</th>
<th>Surface vertical</th>
<th>Concealed vertical</th>
<th>Mortise</th>
<th>Rim</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. door opening</td>
<td>28 ⅝&quot;</td>
<td>28 ⅝&quot;</td>
<td>28 ⅝&quot;</td>
<td>29 ⅜&quot;</td>
</tr>
</tbody>
</table>

Popular EL application
Power supply PS914-2RS
Electrified power transfer
EPT-2 or EPT-10

<table>
<thead>
<tr>
<th>Von Duprin exit device</th>
<th>EL Wire length (feet)</th>
<th>Wire gauge (AWG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL 98/99 Rim</td>
<td>0-500</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>0-300</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>0-200</td>
<td>16</td>
</tr>
<tr>
<td>All other 98/99EL device types</td>
<td>0-250</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>0-150</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>0-100</td>
<td>16</td>
</tr>
<tr>
<td>Control switch</td>
<td>0-1200</td>
<td>18</td>
</tr>
</tbody>
</table>

1. Wire lengths include an EPT, Door loop, electric hinge or pivot and are measured one way between the PS914/option board and the device.

Note: Table is applicable to devices that have shipped after August 2012.
Electrified options

The Chexit® (CX) (with motor driven blocking actuator)*

The Von Duprin Chexit device is designed for controlled egress applications. It meets both life safety and security needs, as well as the requirements of NFPA 101 for "Special Locking Arrangement" and IBC "Special Egress-Control Devices". All control inputs, auxiliary locking, local alarm and remote signaling outputs are self-contained in the Chexit assembly. Numerous configurable options allow the device to be customized for the specific code or application requirements. The standard Chexit device sounds an alarm and keeps the door secured for 15 seconds following an exit attempt with immediate release upon fire.

The Chexit device includes a 6" x 20" decal for application on door. “PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS”

Chexit typical applications
Chexit single door with options – The Chexit is used as an access control device. The card reader allows access. Also shown in this application is an external horn and door position switch. The auxiliary horn is used for increased volume in remote locations. Using a door position switch gives added security to the opening in case the door is not reclosed.

With the Chexit disarmed, the opening functions as a normal exit device. If card readers are required on both sides of the door, the normally closed contacts of the readers should be wired in series.

Minimum door opening sizes for CX devices
(Consult factory for other size requirements)

<table>
<thead>
<tr>
<th>Device</th>
<th>Length</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>CX98/98-F/99/99-F</td>
<td>2'10 ½&quot; (883mm)</td>
<td>3' 4&quot; (1022mm)</td>
</tr>
<tr>
<td>CX-XP98/XP98-F/XP99/XP99-F</td>
<td>2'10 ½&quot; (883mm)</td>
<td>3' 4&quot; (1022mm)</td>
</tr>
<tr>
<td>CX9827/9827-F/9927/9927-F</td>
<td>2'10 ½&quot; (870mm)</td>
<td>3' 4&quot; (1022mm)</td>
</tr>
<tr>
<td>CX9847/9847-F/9947/9947-F</td>
<td>2'10 ½&quot; (870mm)</td>
<td>3' 4&quot; (1022mm)</td>
</tr>
<tr>
<td>CX9848/9848-F/9948/9948-F</td>
<td>2'10 ½&quot; (870mm)</td>
<td>3' 4&quot; (1022mm)</td>
</tr>
<tr>
<td>CX9849/9849-F/9949/9949-F</td>
<td>2'10 ½&quot; (870mm)</td>
<td>3' 4&quot; (1022mm)</td>
</tr>
<tr>
<td>CX9850/9850WDC-F/9950/9950WDC-F</td>
<td>2'10 ½&quot; (870mm)</td>
<td>3' 4&quot; (1022mm)</td>
</tr>
<tr>
<td>CX9857/9857-F/9957/9957-F</td>
<td>2'10 ½&quot; (870mm)</td>
<td>3' 4&quot; (1022mm)</td>
</tr>
<tr>
<td>CX9875/9875-F/9975/9975-F</td>
<td>2'10 ½&quot; (870mm)</td>
<td>3' 4&quot; (1022mm)</td>
</tr>
</tbody>
</table>

Specifications / Power supply requirements¹

| Input voltage – 24VDC |
| Input current inrush – 1.25A |
| Input current holding – 390mA |
| Alarm relay and Secure relay contact ratings – 24VDC, 1A |
| Fire alarm, inhibit and Door position switch inputs require normally closed dry contacts. |

Power supply information for CX devices with motor driven blocking actuator¹

<table>
<thead>
<tr>
<th>Power supply</th>
<th>Maximum number of devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS902 (up to 2 amps)</td>
<td>1 Chexit device</td>
</tr>
<tr>
<td>PS904 (up to 4 amps)</td>
<td>3 Chexit devices</td>
</tr>
<tr>
<td>PS906 (up to 6 amps)</td>
<td>4 Chexit devices</td>
</tr>
<tr>
<td>PS914 (up to 4 amps)</td>
<td>4 Chexit devices</td>
</tr>
</tbody>
</table>

Note: When powering multiple components, verify that the ampereage requirements of all components combined does not exceed the power supply output rating, see table above for output ratings.

To order, specify:
1. Prefix product description number “CX”.
   Example: CX99L
2. Specify option (see options on page 53).
   Example: CX-RCM or CD-CX
3. Door size other than 3' (914mm).
4. Door thickness other than 1 1/4" (35mm).
5. Finish.
6. Handing, LHR or RHR. Required with “CD” option.

¹ Chexit devices built after August 24, 2015 are built using motor driven blocking actuators that have decreased power supply and operating requirements. The information listed in this catalog references the power supply and operating requirements that are needed for the new products with motor driven blocking actuators. For information on devices built previous to August 24, 2015, please contact Customer Care at 877-671-7011.
Delayed egress

**Chexit, RCM and DE5300 features**

The Chexit, remote chexit module (RCM) or DE5300 devices have several features and options available to fit your applications. See below for more information.

**Inputs and outputs**

**Fire alarm input**
This input releases the door immediately upon a fire alarm allowing immediate egress. The internal alarm can be silenced during a fire input via an onboard switch setting.

**Inhibit input (access control)**
This optional input is provided to allow authorized egress or entry when the device is armed using an external card reader, key switch, etc. It also allows remote reset of the Chexit, RCM or DE5300 in an alarmed condition. The ability to reset alarms with the inhibit input can be disabled via an onboard switch setting.

**Door position switch input**
An optional door position switch (DPS) can provide door position status to Chexit, RCM or DE5300 for additional security, ensuring that the door is closed, and can cause alarm when the door is left or forced open.

**Gang bus**
The gang bus allows a Chexit, RCM or DE5300 device to signal other Chexit, RCM or DE5300 devices when it enters the release delay, allowing multiple doors to release at the same time in an emergency. Up to 8 devices may be connected to the gang bus.

**Alarm relay contacts**
The alarm relay contacts are provided as a means to control a remote alarm, such as a horn or lamp, or signal an external monitor. The contacts can be configured with a jumper as normally open or normally closed, and become active upon entering an alarmed condition.

**Secure relay contacts**
The secure relay contacts are provided as a means to signal an external monitor. The contacts can be configured as normally open or normally closed with a jumper, and become active when the dps indicates the door is closed and the push pad is locked.

**Delays**

**Release delay**
When the push pad is pushed and the nuisance delay expires, the Chexit, RCM or DE5300 enters the release delay with alarm. During the release delay, the internal alarm sounds, the alarm relay activates, and the Chexit/RCM keeps the push pad or DE5300 magnetic lock, locked for 15 seconds (less any time already elapsed during the nuisance delay). Once started, the release delay sequence will not stop and the devices will unlock.

**Nuisance delay**
When a Chexit, RCM or DE5300 is located in a public area, it can be desirable to limit false releases when the push pad is accidently pushed. The nuisance delay is the brief time a push pad can be accidently pushed before the release delay sequence starts. If the nuisance time is set to 0 seconds the Chexit, RCM or DE5300 will enter release delay as soon as the push pad is pushed (when armed). Setting the nuisance time to 1, 2, or 3 seconds allows the push pad to be pressed for 1 to 3 seconds before the Chexit, RCM or DE5300 goes into release delay. If the nuisance audio and nuisance delay are both on, the internal alarm will pulse during the nuisance delay. The alarm relay does not activate during the nuisance delay. If the push pad is released before the nuisance delay expires, the Chexit, RCM or DE5300 will remain armed.
Delayed egress

**Chexit, RCM and DE5300 features (continued)**

**Rearm delay**
The reararm delay is the amount of time after the key switch or inhibit input is deactivated to when the device rearsms. It is designed to give someone time to pass through the door before rearming occurs. The reararm time can be changed via the onboard switch settings from 0 and 28 seconds in 2 second increments. If the reararm time is set to 30 seconds and a DPS is used, if the door is opened and the reararm time expires, there will be no alarm. The Chexit, RCM or DE5300 will rearm after the door is closed. If the door never opens, the Chexit, RCM or DE5300 will rearm after 30 seconds. If not using a DPS, the Chexit, RCM or DE5300 will always rearm in 30 seconds.

**DPS delay**
If the DPS detects that the door closed during the reararm delay, the Chexit, RCM or DE5300 ends the reararm delay and allows 2 seconds for the latch to clear the strike before rearming.

**Interface**

**Key switch**
The Key Switch provides the means to Arm or Disarm/Reset the Chexit, RCM or DE5300. Turning the Key Switch clockwise initiates the Rearm Delay, and turning the Key Switch counter-clockwise Disarms/Resets the Chexit, RCM or DE5300. The Key Switch allows the key to be removed in either the Arm or the Disarm/Reset position.

**Status indicator**
The red Status Indicator displays the status of the Chexit, RCM or DE5300. The Status Indicator flashes slow if the Chexit, RCM or DE5300 is armed, flashes fast in an alarmed mode, is off when inhibited and on solid during Rearm Delay.

**Internal alarm**
The Internal Alarm sounds the status of the Chexit, RCM or DE5300. The Internal Alarm sounds continuously during and after a fire alarm or a Release Delay, pulses fast during the Nuisance Delay or a tamper and pulses slow during Disarmed Powerup mode.

**Settings**

**Armed powerup**
When set to OFF, a power disruption and power return will put the Chexit, RCM or DE5300 in a disarmed, unlocked alarm mode.

**Trim fail safe / fail secure (FS/FSE)**
The trim input power can be set to FS (Fail Safe; locked when energized, unlocked when deenergized or during power failure) or FSE (Fail Secure; unlocked when energized, locked when deenergized or during power failure).

The trim must be bought or modified to physically function as FS or FSE. This on board setting only selects the trim input power.

**Trim operation overview**
Rim and vertical application: Trim will not function when Chexit is armed.

Mortise application: Trim will function when Chexit is armed.

**Chexit requiring pull side operation**

<table>
<thead>
<tr>
<th>Mechanical trim</th>
<th>Electric Trim</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rim and vertical</strong></td>
<td>Access control disarms Chexit. Rotate lever to enter.</td>
</tr>
<tr>
<td><strong>Mortise</strong></td>
<td>a) Use key to unlock lever. Rotate lever to enter.</td>
</tr>
<tr>
<td></td>
<td>b) Use RX996L-M to disarm Chexit. Rotate lever to enter.</td>
</tr>
</tbody>
</table>

1. Fail Secure Trim recommended. For Fail Safe applications, contact technical support to review application.
2. Do not use Door Position Switch with Chexit in this application.
3. Allows free ingress at all times.

**Electrified options**
Delayed egress

Remote Chexit Module (RCM)

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.

Minimum door opening sizes for RCM devices
(Consult factory for other size requirements)

<table>
<thead>
<tr>
<th>Device</th>
<th>3' (914mm) Length</th>
<th>4' (1219mm) Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>CX-RCM 98/98-F/99/99-F</td>
<td>2'5&quot; (737mm)</td>
<td>2'11&quot; (889mm)</td>
</tr>
<tr>
<td>CX-RCM XP98/XP98-F/XP99/XP99-F</td>
<td>2'5&quot; (737mm)</td>
<td>2'11&quot; (889mm)</td>
</tr>
<tr>
<td>CX-RCM 9827/9927-F/9927/9927-F</td>
<td>2'4 1/2&quot; (724mm)</td>
<td>2'10 1/2&quot; (876mm)</td>
</tr>
<tr>
<td>CX-RCM 9847/9947-F/9947/9947-F</td>
<td>2'4 1/2&quot; (724mm)</td>
<td>2'10 1/2&quot; (876mm)</td>
</tr>
<tr>
<td>CX-RCM 9848/9948-F/9948/9948-F</td>
<td>2'4 1/2&quot; (724mm)</td>
<td>2'10 1/2&quot; (876mm)</td>
</tr>
<tr>
<td>CX-RCM 9849/9949-F/9949/9949-F</td>
<td>2'4 1/2&quot; (724mm)</td>
<td>2'10 1/2&quot; (876mm)</td>
</tr>
<tr>
<td>CX-RCM 9850/9950WDC-F/9950/9950WDC-F</td>
<td>2'4 1/2&quot; (724mm)</td>
<td>2'10 1/2&quot; (876mm)</td>
</tr>
<tr>
<td>CX-RCM 9857/9957-F/9957/9957-F</td>
<td>2'4 1/2&quot; (724mm)</td>
<td>2'10 1/2&quot; (876mm)</td>
</tr>
<tr>
<td>CX-RCM 9875/9975-F/9975/9975-F</td>
<td>2'5 1/2&quot; (743mm)</td>
<td>2'11 1/2&quot; (902mm)</td>
</tr>
</tbody>
</table>

Cylinder dogging (CD)

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. Use 1 1/4" mortise cylinder with compression ring 36-083 with straight cam and orient cam as shown. Schlage cylinder 20-001-114 recommended for the device and the CD cylinder dogging option. See Schlage Pricebook for additional information.

To order, specify*:

See Chexit "How to order" on page 50.

Specifications / Power supply requirements*

- Size – 3.75" x 5.57" x 2.50"*
- Input voltage – 24VDC
- Input current inrush – 1.25A
- Input current holding – 390mA
- Alarm relay and Secure relay contact ratings – 24VDC, 1A
- Fire alarm, Inhibit and Door position switch inputs require normally closed dry contacts.

*RCM modules built after August 24, 2015 are built using motor driven blocking actuators that have decreased power supply and operating requirements. Note: The information listed in this catalog references the power supply and operating requirements that are needed for the new products with motor driven blocking actuators. For information on devices built previous to August 24, 2015, please contact Customer Care at 877-671-7011.
Delayed egress system

DE5300 system
Designed for controlled egress applications when used in conjunction with a magnetic lock. It meets both life safety and security needs, as well as the requirements of NFPA for "Special Locking Arrangement" and IBC "Special Egress-Control Devices". All control units, auxiliary locking, local alarm and remote signaling outputs are self-contained in the DE5300 assembly.

The DE5300 is commonly used on narrow stile doors where a standard or narrow stile Chexit is not practical. DE5300 Delayed Exit System uses a Chexit logic board and a Von Duprin RX-LC (low current request to exit) panic device to control a Schlage Electronics Direct Hold Magnetic Lock.

The Chexit module for the DE5300 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 DE5300.

The DE5300 device includes a 6" x 20" decal for application on door. “PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS”

Cylinders
Cylinders are not furnished with the DE5300 and must be specified when ordering. Use 1½" mortise cylinder with compression ring 36-083 with straight cam and orient cam as shown. Schlage cylinder 20-001-114 recommended for the device and the CD cylinder dogging option. See Schlage Pricebook for additional information.

Specifications / Power supply requirements
- Size - 3.75" x 5.57" x 2.50"
- Input voltage – 24VDC
- Input current – 1A
- Alarm relay and Secure relay contact ratings – 24VDC, 1A
- Fire alarm, Inhibit and Door position switch inputs require normally closed dry contacts.

To order, specify:
1. DE5300
2. M420/P, M450/P, or M490/P magnetic lock
   (order direct from Schlage Electronics).
3. RX-LC 22/33A/35A/98/99 device.
4. PS900 Series
5. EPT-2/10
Switches

Request to exit (RX)
The RX feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the push pad. 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. The RX switch option should not be used to control a load, but as a signalling switch (2 amps resistive maximum). The RX switch is available in a low current (LC) 50mA max. Most commonly used to signal low-current access control inputs.

To order, specify:
- Standard – use prefix RX, example RX99EO
- Low Current – use prefix RX-LC, example RX-LC98EO

Double request to exit (RX2)
The RX2 feature uses two RX switches.

To order, specify:
- Standard – Use prefix RX2, example RX299EO

Waterproof request to exit (WP-RX)
- Switch rated to IP67 – protected from contact with harmful dust and from immersion in water with a depth of up to 1 meter (3.3 feet) for up to 30 minutes.

Note: All in-field electrical connections should be in compliance with IP67 to ensure trouble free operation.

Latch bolt monitoring (LX)
The LX feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the latch bolt.

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.

The LX switch option should not be used to control a load, but as a signalling switch (2 amps resistive maximum).

The LX switch is available in a low current (LC) switch. Most commonly used in computer operated monitoring systems.

To order, specify:
- Standard – Use prefix LX, example LX99EO
- Low Current – Use prefix LX-LC, example LX-LC98EO

Electrical rating for all switches:
- Standard – 2 amp maximum @ 24VDC
- Low Current (LC) - below 50 Milliamps @ 24VDC

Signal switch (SS)

Monitors push pad and latch bolt. The SS feature is used to signal the unauthorized use of an opening. This device is equipped with two internal SPDT switches. One switch monitors both the push pad and the latch bolt assembly, making the latch bolt tamper resistant, for positive security. An additional SPDT switch is connected to the 1 ¼" (32mm) mortise cylinder with straight cam for alarm “bypass.” (Schlage cam reference L583-477). 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.


The SS mortise lock device is furnished with both the signal switch device and the SS7500 mortise lock. The SS7500 mortise lock has the versatility and advantages of the 7500 lock with the addition of signalling functions to monitor latch bolt operation and the trim locking function. The SS7500 mortise lock is supplied standard with the SS mortise lock device.

To order, specify:
1. Prefix SS, example SS99L.
2. Handing required, LHR or RHR.

Electrical ratings:
- Up to 2.0 amps @ 24VDC

Popular SS application
Unauthorized use of this opening will activate the local horn. The key switch permits inhibiting this system for authorized entry.
**Alarm kit**

Alarm kit (ALK) 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.

**For hardware applications**
The assembly includes both a 24VDC input and External Inhibit standard. The External Inhibit provides remote arming and disarming.

The key switch uses a standard 1 1/4" (32mm) mortise cylinder with a straight cam (Schlage 20-001, L583-477 cam). 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.

Auto reset (AR) option is available with this kit. This kit allows the device to resume the alarm option after a preset time. Preset times can be field selected at 1.5, 3, or 4.5 minutes.

Alarm kits are available with a choice of two switch kits, RX or LX. RX monitors the touchpad and is furnished standard. LX optional latch bolt monitoring is recommended for use with surface vertical rod exit devices or when alarm needs to sound from both the exit device and trim side of the door. Specify ALK-LX.

The ALK is available in two styles, 99ALK, grooved cover and 98ALK, smooth cover.

The ALK includes a 6" x 20" decal for application on door “EMERGENCY EXIT ONLY. ALARM WILL SOUND.” RSS push bar trim can be used instead of the door decal, specify RSS push bar trim when ordering the device.

When the ALK is used, standard dogging is removed. If cylinder dogging is required, there are two choices. Special center case dogging (SD) is available. Or, as an engineered special, the ALK can be moved to the hinge side of the device, and standard cylinder dogging (CD) can be added. Note size restrictions below.

**To order, specify:**
1. Standard, 98 ALK
2. Special center case dogging, SD98 ALK
3. Cylinder dogging, CD98 ALK

**Minimum door opening sizes on ALK applications**

<table>
<thead>
<tr>
<th>Device</th>
<th>3' (914mm) Length</th>
<th>4' (1219mm) Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>98/98-F/99/99-F</td>
<td>2'10&quot; (864mm)</td>
<td>3' (1016mm)</td>
</tr>
<tr>
<td>9875/9875-F/9975/9975-F</td>
<td>2'10&quot; (864mm)</td>
<td>3' (1016mm)</td>
</tr>
<tr>
<td>9827/9827-F/9927/9927-F</td>
<td>2'10&quot; (864mm)</td>
<td>3' (1016mm)</td>
</tr>
<tr>
<td>9857/9857-F/9957/9957-F</td>
<td>2'10&quot; (864mm)</td>
<td>3' (1016mm)</td>
</tr>
<tr>
<td>9847/9847-F/9947/9947-F</td>
<td>2'9&quot; (838mm)</td>
<td>3'3&quot; (991mm)</td>
</tr>
<tr>
<td>9848/9848-F/9948/9948-F</td>
<td>2'9&quot; (838mm)</td>
<td>3'3&quot; (991mm)</td>
</tr>
</tbody>
</table>

Note: For latch bolt monitoring on a 98/9975 with ALK, specify a SS7500 lock. LX switch not available for 98/9975 devices.
The electric mortise lock device 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. The device features the E7500 mortise lock. 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 outside trim cylinder retracts the latch bolt for mechanical override, night latch function. Only available with TP, K or L functions.

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.

**Standard features:**
- Field reversible handing
- 24 VDC continuous duty solenoid

**Optional features:**
- Fail safe (locked when energized, unlocked when de-energized or during power failure). Specify with suffix "FS."
- Fail secure (unlocked when energized, locked when de-energized or during power failure). Specify with suffix "FSE"
- 24 VAC (with SO option)*
- 12 VDC
- 12 VAC (with SO option)*

* SO (silence operation) not recommended for continuously-powered devices.

**Electrical specifications:**
- Solenoid — .60 amps @ 12VDC
- .30 amps @ 24VDC
- Each switch — Up to 2.0 amps @ 24VDC Maximum

The E option does not include the power transfer from door to frame, the power supply or the control operator (Refer to EPT-10 and PS902 or PS914 power supply).

**To order, specify:**
1. Use prefix "E," example E9975
2. FS or FSE
3. Voltage

---

**E996L Electrified lever trim**

E996L Electrified lever trim provides remote locking and unlocking. Available in either fail safe (FS) or fail secure (FSE) condition, but can also be field converted where allowed. E996L is furnished standard with cylinder operation for night latch (NL) function, or with blank escutcheon (BE).

**Specification:**
- Solenoid — 0.6 amps @ 12 VDC, 0.22 amps @ 24 VDC.

**To order, specify:**
1. Use "E" prefix, example E996L. When ordering with the exit device specify trim series with prefix "E," example 9927L-BE 3' US26D E996.
2. Device type, R/V (rim/surface vertical rod/concealed vertical rod) or M (mortise).
3. RHR furnished standard if not specified, field reversible.
4. Lever style (06 lever furnished standard). Other levers, no extra charge.

**RX option**

RX option available for 996 trim to monitor lever trim operation (available as L or L-BE). To order, add RX prefix to trim description.

* Note: The RX switch option should not be used to control a load, but as a signaling switch only.
PS900 Series power supplies

The PS900 Series is a consolidated line of power supplies and accessories that offer enhanced flexibility and functionality specific to the changing needs of the access control market. The PS900 Series can be used in a variety of applications to convert high voltage AC power into the regulated low voltage DC outputs required by most access control devices. The PS900 Series protects devices downstream by providing Class 2, filtered and regulated power. The full line is UL294 certified.

Features:
- Constant output rating at both 12VDC or 24VDC provides superior performance; includes field selectable jumper
- Flat mounting of option boards provides easier access to terminal blocks for connection of electrified devices
- High voltage protective cover
- Battery back-up board auto-selects voltage
- Fire alarm relay can be configured to provide either switched or un-switched outputs from a power supply
- PS914 designed with high inrush current for powering electrified panic devices
- Universal 120-240 VAC input
- Low voltage DC, regulated and filtered
- Electronic power limiting foldback circuit for AC current overload protection
- Fused primary input
- AC status monitor- isolated SPDT contacts
- AC input and DC output LED status indicators
- Cover mounted AC input indication
- Hinged cover with lock down screws
- Optional keylock

Certifications:
- UL 294 certified—the standard for access control
- Class 2 rated

The PS900 Series offers a variety of distribution options, including basic fuse protection, simple relay, and advanced logic providing complex sequencing and timing functions.

Connectors on the power supply

<table>
<thead>
<tr>
<th>Product</th>
<th>Amperage</th>
<th>Distribution boards</th>
<th>Battery back-up board</th>
<th>EL Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schlage PS902</td>
<td>2 amps</td>
<td>1</td>
<td>1</td>
<td>No</td>
</tr>
<tr>
<td>Schlage PS904</td>
<td>4 amps</td>
<td>2</td>
<td>1</td>
<td>No</td>
</tr>
<tr>
<td>Schlage PS906</td>
<td>6 amps</td>
<td>3</td>
<td>1</td>
<td>No</td>
</tr>
<tr>
<td>Von Duprin PS914</td>
<td>4 amps with 16 amp inrush</td>
<td>2</td>
<td>1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Applications:
The PS900 Series of power supplies works with many electrified devices including Schlage electromagnetic locks, Schlage AD Series hardwired locks, Schlage electrified mechanical locks, Von Duprin electrified strikes, Von Duprin exit devices and many other brands.

Accessories:
The PS900 Series features seven option boards for use in a variety of applications. All PS900 Series power supplies option boards are UL 294 certified.

Option boards:
- **900-4R**: 4 relay controlled output board to power multiple devices
- **900-4RL**: 4 relay distribution board with logic is field configurable for time delay function, auto operator, security interlock
- **900-8F**: Provides 8 individually fuse-protected outputs, giving the flexibility to power multiple devices and provide another layer of protection
- **900-8P**: Provides 8 individually fuse-protected outputs, giving the flexibility to power multiple devices and provide another layer of protection
- **900-FA**: Emergency interface relay integrates with fire alarm and is used to cut power in case of emergency
- **900-BB**: Battery backup
- **900-2RS**: 2 relay control board for electric latch panic devices (EL or QEL), electric strikes or electrified trim
- **900-BBK**: Battery backup kit includes two 7A/hr batteries and provides up to four hours of backup power when cycled every 5 minutes at full load

1. PS906 can provide Class 2 rated outputs when used with 900-8P distribution board.
2. Except PS906, output rating exceeds Class 2 power limits.
3. PS906, output rating exceeds Class 2 power limits, but can provide Class 2 rated outputs when used with 900-8P distribution board.
Electrical and pneumatic power transfers

Electrical power transfer (EPT)
Pneumatic transfer (PNT)

Electrical 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 ideal 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 U/L listed as “miscellaneous door accessory”. UL Listed for use on fire doors.

<table>
<thead>
<tr>
<th>Door applications</th>
<th>Hinge type</th>
<th>Door thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-180</td>
<td>Up to 5&quot; butt hinges</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td>0-180</td>
<td>Up to 3/4&quot; offset pivots</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td>0-130</td>
<td>5 1/4&quot; butt hinges</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td>0-110</td>
<td>6&quot; butt hinges</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td>0-90</td>
<td>Swing clear hinges</td>
<td>1 1/4&quot;</td>
</tr>
</tbody>
</table>

**Finishes**
- SP28 (sprayed aluminum)
- SP313 (sprayed duranodic)

**Dimensions**

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing</td>
<td>9&quot; x 1 3/4&quot; x 1 1/8&quot; (229mm x 32mm x 38mm)</td>
</tr>
<tr>
<td>EPT-2</td>
<td>Two 18 gauge wires, Up to 2 amps @ 24VDC, with a 16 amps Maximum Surge</td>
</tr>
<tr>
<td>EPT-10</td>
<td>Ten 24 gauge wires, Up to 1 amps @ 24VDC, with a 16 amps Maximum Surge</td>
</tr>
<tr>
<td>PNT-1</td>
<td>1/8&quot; Tubing</td>
</tr>
</tbody>
</table>

**To order, specify:**
1. EPT-2, EPT-10 or PNT-1
2. Finish, SP28 or SP313
Allegion Connect features common interconnect components for many cross-category electrified options. Allegion Connect is a quick and easy way to connect power sources. There is no wire cutting; reducing installation and maintenance time ultimately cutting cost. After installation, Allegion Connect continues to provide benefits throughout the lifetime of the opening by offering a service kit for repairs or modifications in the future.

Features and benefits
- Quick: common connections reducing installation time
- Perfect Connections: these factory installed connectors ensure the right wires match up every time
- Protective: the connectors protect the connection points throughout the installation process and lifetime of the opening
- Interchangeable: all Allegion Connect products utilize the same connectors
- Maintenance: you no longer need to cut away wire to disconnect Allegion products, also available is a service kit specifically for Allegion Connect products.

<table>
<thead>
<tr>
<th>Harness length</th>
<th>Connectors on both ends</th>
<th>Connectors on one end, crimped pins on the other end</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 inches</td>
<td>CON-6</td>
<td>CON-6P</td>
</tr>
<tr>
<td>12 inches</td>
<td>CON-12</td>
<td>CON-12P</td>
</tr>
<tr>
<td>26 inches</td>
<td>CON-26</td>
<td>CON-26P</td>
</tr>
<tr>
<td>32 inches</td>
<td>CON-32</td>
<td>CON-32P</td>
</tr>
<tr>
<td>38 inches</td>
<td>CON-38</td>
<td>CON-38P</td>
</tr>
<tr>
<td>44 inches</td>
<td>CON-44</td>
<td>CON-44P</td>
</tr>
<tr>
<td>50 inches</td>
<td>CON-50</td>
<td>CON-50P</td>
</tr>
<tr>
<td>192 inches</td>
<td>CON-192</td>
<td>CON-192P</td>
</tr>
</tbody>
</table>

Power supply wire harness = connectors on one end, stripped leads on the other end.

| 6 inches | CON-6W - wire extension to power supply |

Consult door manufacturer for harness length requirements.

**Note:** You will need to purchase a separate wiring harness to go from exit device to hinge/EPT and an additional harness to go from hinge/EPT to power supply or access control system. Harness part numbers with ordering information can be located in the Schlage, Von Duprin and Falcon pricebooks. A service kit is available for order in the Schlage, Von Duprin and Falcon pricebooks. Included in this kit are male end plugs, female end plugs and pins to customize harnesses to your application.

**Note:** Must be ordered with exit devices and locks

To order, specify:
1. Specify CON for Connect electronic options
   Example: QEL-99-EO-CON
   (99 Series quiet electric latch retraction exit only with Connect connectors)
2. Specify harness length; Consult door manufacturer for harness length
3. Specify Von Duprin EPT10-CON or Ives electrical thru-wire hinge

Wire run options
Strikes

Strikes for rim devices

<table>
<thead>
<tr>
<th>Device</th>
<th>Projection</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>264</td>
<td>3/4&quot; (19mm)</td>
<td></td>
</tr>
<tr>
<td>299</td>
<td>5/8&quot; (16mm)</td>
<td></td>
</tr>
<tr>
<td>299F</td>
<td>5/8&quot; (16mm)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Device</th>
<th>Projection</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>499F</td>
<td>1/2&quot; (13mm)</td>
<td></td>
</tr>
</tbody>
</table>

1408 – Blade stop

<table>
<thead>
<tr>
<th>Device</th>
<th>Projection</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1408</td>
<td>1/2&quot; (13mm)</td>
<td>One pair of doors</td>
</tr>
</tbody>
</table>

1606 – Integral stop

<table>
<thead>
<tr>
<th>Device</th>
<th>Projection</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1606</td>
<td>1/8&quot; (6mm)</td>
<td></td>
</tr>
</tbody>
</table>

Strikes for vertical cable devices

XP Strikes for rim devices

<table>
<thead>
<tr>
<th>Device</th>
<th>Projection</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>909</td>
<td>3/8&quot; (10mm)</td>
<td></td>
</tr>
<tr>
<td>954</td>
<td>3/8&quot; (10mm)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Device</th>
<th>Projection</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>249</td>
<td>1&quot; (25mm)</td>
<td>Top strike</td>
</tr>
<tr>
<td>349</td>
<td>1/2&quot; (13mm)</td>
<td>Bottom strike</td>
</tr>
</tbody>
</table>

Strikes for 98/9950WDC devices

<table>
<thead>
<tr>
<th>Device</th>
<th>Projection</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>1/4&quot; (6mm)</td>
<td></td>
</tr>
<tr>
<td>450</td>
<td>1/4&quot; (6mm)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Device</th>
<th>Projection</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>450</td>
<td>1/4&quot; (6mm)</td>
<td></td>
</tr>
</tbody>
</table>

Additional information

- Requires coordinator
- For panic exit application only, not fire rated
Cylinders

Cylinders are not furnished with device or trim and must be specified when ordering. Refer to trim pages for cylinder type.

**Dogged (inverted) cam**

For CD, CDSI, CI and SD

**Undogged cam (standard operations)**

For 2, -2SI, ALK, CX, DE5300, RCM, SS and all 98/99 Series mortise cylinder trims and controls

**Strikes**

**Strikes for vertical rod devices**

<table>
<thead>
<tr>
<th>Device options</th>
<th>Trim options</th>
</tr>
</thead>
<tbody>
<tr>
<td>248L-4 260U-4</td>
<td>299 299F 499F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mortise — 3215 (Schlage 20-001, L583-477 cam)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Rim — 3216 (Schlage 20-022)</th>
</tr>
</thead>
</table>
Door kits

Vertical rod and latch guard (RG-27)

Series RG-27 vertical rod and latch guards protect the bottom rods of exit devices from the damaging impacts of carts or gurneys passing through doors. (If bottom rods become damaged, the exit device will not function as intended and can jeopardize the ability to exit safely during an emergency.)

In addition to protecting the vertical rod, the guard provides a smooth, unobstructed surface so the door can be pushed open easily with the bumpers of a wheelchair. The latch guard portion is 10" high. The standard latch guard features a 45° ramp. The extended latch guard offers a continuous ramp for 3' or 4' doors.

All stainless steel construction in 630 finish. Latch guards can cover latches as large as 1 1/4" W x 10" H x 1 7/8" projection.

997 Cover plate kit

For 98/99 rim device, kit contains inside and outside plates for hinge stile cutouts, an inside plate for the lock stile, and necessary screws. Plates are designed to cover cutouts required by most existing exit device installations. Specify finish.

Wood door applications cover plate kit (WDA)

For wood door applications, used to cover up door preparations for control, also prevents the control from boring into the wood door. Finished to match control.

Glass bead kit (GBK)

Glass bead conversion kits are available for all 98/99 Series devices for use on doors with raised glass beads. Each kit consists of 1/4" (6mm) shim sets. GBK for surface vertical rod ships with 1/8" shims for rod guides.

To order, specify:
1. Device model.
2. GBK.
3. Device type (rim, mortise, surface rod, concealed rod, concealed cable).
4. Wood door (when used with concealed rod or concealed cable device).
5. Specify if using with 499F or 954 strike.
6. Finish.

Example: XP98 GBK Rim 954 SP28

Note: For 330/350 dummy pushbar, order hinge stile shim #971010, quantity 2.
Sex bolts provide secure mounting by mating with machine screws furnished with devices. Sex bolts are either optional or required, as shown in quantity chart below. Sex bolts ordered separately are not furnished with screws. If screws are required, order device mounting packages.

To order sex bolts:
1. If ordering devices with sex bolts, specify SNB (sex nuts and bolts) in device description.
2. If ordering sex bolts separately, specify:
   - Sex bolt model number
   - Package quantity (sold as package of 2)
   - Finish

An alternative to sex bolt mounting is the use of UL or WH approved high density blocking material for wood fire-rated doors. Specify device with SLM (special laminate material) mounting package.

### Device type

<table>
<thead>
<tr>
<th>Function</th>
<th>Sex bolts</th>
</tr>
</thead>
<tbody>
<tr>
<td>425</td>
<td>325</td>
</tr>
<tr>
<td>425 for 499F hook</td>
<td>325 for latches</td>
</tr>
<tr>
<td>825</td>
<td>825</td>
</tr>
</tbody>
</table>

### Device types

<table>
<thead>
<tr>
<th>Device type</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>98/99/XP98/XP99 Rim</td>
<td>EO, NL-OP</td>
</tr>
<tr>
<td>98/99/XP98/XP99 Rim-F, single door, metal door</td>
<td>EO, NL-OP, TL-OP</td>
</tr>
<tr>
<td>98/99/XP98/XP99 Rim-F, double door, metal door</td>
<td>EO, NL-OP</td>
</tr>
<tr>
<td>98/99/XP98/XP99 Rim-F, single door, wood door</td>
<td>EO, NL-OP, TL-OP</td>
</tr>
<tr>
<td>98/99/XP98/XP99 Rim-F, double door, wood door</td>
<td>EO, NL-OP</td>
</tr>
<tr>
<td>(HH)98/99/XP98/XP99 Rim panic and fire, single or double metal door</td>
<td>EO, NL-OP</td>
</tr>
</tbody>
</table>

### Trim options

<table>
<thead>
<tr>
<th>Trim options</th>
</tr>
</thead>
<tbody>
<tr>
<td>98/9927/57/-F</td>
</tr>
<tr>
<td>98/9927/LBR/57LBR</td>
</tr>
<tr>
<td>98/9927/LBR-F, metal door</td>
</tr>
<tr>
<td>98/9927/LBR-F, metal door</td>
</tr>
<tr>
<td>HH98/9927/57/-F</td>
</tr>
<tr>
<td>W598/9927/57/-F</td>
</tr>
</tbody>
</table>

### Electrified options

<table>
<thead>
<tr>
<th>Electrified options</th>
</tr>
</thead>
<tbody>
<tr>
<td>98/9947/47WDC/48/49/50/-F, standard or LBR/LBL</td>
</tr>
<tr>
<td>HH98/9947/49/-F</td>
</tr>
<tr>
<td>98/9952</td>
</tr>
<tr>
<td>98/9975/-F</td>
</tr>
<tr>
<td>HH98/9975/-F</td>
</tr>
</tbody>
</table>

### Accessories

- No sex bolts, all applications; special laminate material (SLM) blocking mounting package added to price
- 696/697 must be milled on the back to sit flush against required 425 sex bolts
- These 825 sex bolts are only required for 98/9957-F on fire-rated wood doors with outside trim.

---

*696/697 must be milled on the back to sit flush against required 425 sex bolts*  
† These 825 sex bolts are only required for 98/9957-F on fire-rated wood doors with outside trim.
Mullions

Removable steel mullions provide single door performance in double door openings with rim devices. Mullions are easily removed by loosening bottom set screw and removing top fitting cover. The top mullion fitting is attached to the frame and is concealed by the fitting cover.

- Steel mullions are 2" (51mm) wide and 3" (76mm) deep, with a wall thickness of 1/8" (3mm)
- Mullions are shipped with mounting screws and prepared for strikes (strikes are not included except where indicated)
- Steel mullions are available in SP28 and SP313 finishes (Consult factory for other powder coat finish options)

**Keyed removable steel mullions (KR)**

KR mullions make 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 the use of the cylinder key. Uses a 1 1/4" mortise cylinder with a straight cam (Schlage cam reference L583-477). Cylinders are sold separately. Prefix mullion model with “KR”.

Removable aluminum mullions are 1 1/16" (27mm) wide on face closest to the door and 2 3/8" (60mm) at the widest point. The depth is 3 1/8" (79mm) with a wall thickness of 1/8" (3mm).

Aluminum mullions are available in 606, 612, 628, 710 and 622/711 finishes. Consult factory for other powder coat finish options. Aluminum mullions are not available keyed removable.

Stock hollow metal applications for devices mounted to cover ANSI 161 cutouts are higher than the standard mullion strike location. Consult the factory for special strike preparation or order a blank mullion. See below.

**Blank mullions**

are furnished without strike preparation. They are used to mount devices at a strike height different from the standard mullion preparation.

**To order, specify:**

1. For keyed removable option on steel mullions, prefix model number with “KR”
2. Model number
3. Height of opening
4. Finish
5. Handing if required
6. Centerline deviation
   (refer to device template for standard centerline)
7. Strikes, when required, should be ordered with device
Steel and aluminum Mullions

Steel Mullions

1654  Prepared for two 1606 strikes. If 1606 strikes are not specified on the order, two per mullion will be added. Additional charges apply.

4954  Prepared for 264 or 299 strikes. For use with all Von Duprin Panic rim devices.

4954-XP  Prepared for two 909 strikes, for XP device.

9954  Prepared for and must be used with two 268 strikes (88-F device), or two 499F (22-F, 98-F, 99-F devices). UL fire labeled mullion for up to 3 hour opening using Von Duprin fire exit rim devices. This mullion is not easily removed due to special fittings. 98-F and 99-F devices are rated up to 10'0" (3048 mm).

9954-XP  Prepared for two 954 strikes, for XP device.

HH9954  Heavy-duty mullion for use in impact-rated hurricane assembly.

Note: If 268 or 499F strikes are not specified on the order, two per mullion will be added. Additional charges apply.

4754  Prepared for two 4263 monitor strikes.

4854  Prepared for one 299 and one 6111 electric strike. Indicate handing for electric strike.

9854  Prepared for one 268 or 499F strike and one 6111 electric strike. Indicate handing for electric strike. UL fire labelled mullion for up to 3 hour openings up to 8' x 8' (2438mm x 2438mm) using Von Duprin fire exit rim devices.

Aluminum Mullions

5654  Prepared for two 299 strikes.

5654-XP  Prepared for two 909 strikes, for XP device.

5754  Prepared for 1408 double strike.

Accessories
### UL Listing for fire exit hardware

#### UL Listed fire exit hardware label and opening size

<table>
<thead>
<tr>
<th>Exit device</th>
<th>Door material</th>
<th>Single door</th>
<th>Double door</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>With 9954 mullion</td>
<td>With 9854 mullion</td>
</tr>
<tr>
<td>98-F 99-F</td>
<td>Metal, composite (wood or plastic covered)</td>
<td>3 Hour 4' x 10'</td>
<td>3 Hour 8' x 10'</td>
</tr>
<tr>
<td>98-F/99-F with 1439 Strike</td>
<td>Metal, composite (wood or plastic covered)</td>
<td>3 Hour 4' x 8'</td>
<td>—</td>
</tr>
<tr>
<td>XP98-F XP99-F</td>
<td>Metal, composite (wood or plastic covered)</td>
<td>3 Hour 4' x 10'</td>
<td>3 Hour 8' x 10'</td>
</tr>
<tr>
<td>9827-F 9927-F</td>
<td>Metal</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>9827LBR-F 9927LBR-F</td>
<td>Metal</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>9847-F 9947-F</td>
<td>Metal</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>9847LBR-F 9947LBR-F</td>
<td>Metal</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>9847WDC-F 9947WDC-F</td>
<td>Composite (wood or plastic covered)</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>9847WDC-LBR-F 9947WDC-LBR-F</td>
<td>Composite (wood or plastic covered)</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>
| 9847WDC-LBR-F1 9947WDC-LBR-F1 | Wood core | — | — | — | — | 20 Min no hose 8' x 9'3" | 20 Min no hose 8' x 9'3" | 20 Min no hose 8' x 9'3"

1. Not listed for Canada.

Note: Overlapping astragal may not be used on pairs swinging same direction with vertical rods or cables on both pairs. Check with door manufacturers to confirm listing compatibility.
### ANSI Function, grade and type options

<table>
<thead>
<tr>
<th>Function</th>
<th>Grade 1, type 1</th>
<th>Grade 1, type 2</th>
<th>Grade 1, type 3</th>
<th>Grade 1, type 7</th>
<th>Grade 1, type 8</th>
<th>Grade 1, type 8</th>
<th>Grade 1, type 8</th>
<th>Grade 1, type 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>98EO/-F</td>
<td>9827EO/-F</td>
<td>9875EO/-F</td>
<td>9847WDCEO/-F</td>
<td>9850WDCEO/-F</td>
<td>9848EO/-F</td>
<td>9849EO/-F</td>
<td>9857EO/-F</td>
</tr>
<tr>
<td>2</td>
<td>99EO/-F</td>
<td>9927EO/-F</td>
<td>9975EO/-F</td>
<td>9947WDCEO/-F</td>
<td>9950WDCEO/-F</td>
<td>9948EO/-F</td>
<td>9949EO/-F</td>
<td>9957EO/-F</td>
</tr>
<tr>
<td>3</td>
<td>98NL/-F</td>
<td>9827NL/-F</td>
<td>9875NL/-F</td>
<td>9847WDCNL/-F</td>
<td>9850WDCNL/-F</td>
<td>9848NL/-F</td>
<td>9849NL/-F</td>
<td>9857NL/-F</td>
</tr>
<tr>
<td>4</td>
<td>98K/-F</td>
<td>9827K/-F</td>
<td>9875K/-F</td>
<td>9847WDCK/-F</td>
<td>9850WDCK/-F</td>
<td>9848K/-F</td>
<td>9849K/-F</td>
<td>9857K/-F</td>
</tr>
<tr>
<td>5</td>
<td>98L/-F</td>
<td>9827L/-F</td>
<td>9875L/-F</td>
<td>9847WDCL/-F</td>
<td>9850WDCL/-F</td>
<td>9848L/-F</td>
<td>9849L/-F</td>
<td>9857L/-F</td>
</tr>
<tr>
<td>6</td>
<td>98TP/-F</td>
<td>9827TP/-F</td>
<td>9875TP/-F</td>
<td>9847WDCTP/-F</td>
<td>9850WDCTP/-F</td>
<td>9848TP/-F</td>
<td>9849TP/-F</td>
<td>9857TP/-F</td>
</tr>
<tr>
<td>7</td>
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<td>9827TP-2/-F</td>
<td>9875TP-2/-F</td>
<td>9847WDCTP-2/-F</td>
<td>9850WDCTP-2/-F</td>
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<td>8</td>
<td>98K/-F</td>
<td>9827K/-F</td>
<td>9875K/-F</td>
<td>9847WDCK/-F</td>
<td>9850WDCK/-F</td>
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<td>98L/-F</td>
<td>9827L/-F</td>
<td>9875L/-F</td>
<td>9847WDCL/-F</td>
<td>9850WDCL/-F</td>
<td>9848L/-F</td>
<td>9849L/-F</td>
<td>9857L&amp;F</td>
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<td>9850WDCK/-F</td>
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<td>11</td>
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<td>9850WDCL/-F</td>
<td>9848L/-F</td>
<td>9849L/-F</td>
<td>9857L&amp;F</td>
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<td>12</td>
<td>9827TL/-F</td>
<td>9875TL/-F</td>
<td>9847WDC/-F</td>
<td>9850WDC/-F</td>
<td>9848/-F</td>
<td>9849/-F</td>
<td>9857TL/-F</td>
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<td>13</td>
<td>98K-2/-F</td>
<td>9827K-2/-F</td>
<td>9875K-2/-F</td>
<td>9847WDCK/-F</td>
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<td>14</td>
<td>98L-2/-F</td>
<td>9827L-2/-F</td>
<td>9875L-2/-F</td>
<td>9847WDCL/-F</td>
<td>9850WDCL/-F</td>
<td>9848L/-F</td>
<td>9849L/-F</td>
<td>9857L&amp;F</td>
</tr>
</tbody>
</table>

### Dimensions

- **2 1/4” (60mm)**
- **8” (203mm)**
- **33” (838mm)**
- **45” (1143mm)**
- **18” (457mm)**
- **2 1/4” (57mm) Neutral: 3 3/4” (97mm)**
- **Depressed: 3 1/4” (78mm)**
## Stile information

<table>
<thead>
<tr>
<th>Device type</th>
<th>Standard single door</th>
<th>Standard double door</th>
<th>Optional single door</th>
<th>Optional double door</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Strike</td>
<td>Trim/stile</td>
<td>Strike w/mullion*</td>
<td>Trim/Stile</td>
</tr>
<tr>
<td>98/99</td>
<td>299</td>
<td>4½&quot;/&quot; (114mm)</td>
<td>299 x 954</td>
<td>4½&quot;/&quot; (124mm)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>990/996 696/697</td>
<td>990/996 696/697</td>
</tr>
<tr>
<td>XP 98/99</td>
<td>909</td>
<td>909 x 4954-XP</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>98-F/99-F</td>
<td>299F</td>
<td>4½&quot;/&quot; (114mm)</td>
<td>4½&quot;/&quot; (111mm)</td>
<td>4½&quot;/&quot; (124mm)</td>
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<tr>
<td>XP98-F/XP99-F</td>
<td>909</td>
<td>954 x 9954-XP</td>
<td>299F x 9954</td>
<td>299F x 9954</td>
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<tr>
<td>9975</td>
<td>575</td>
<td>4½&quot;/&quot; (121mm)</td>
<td>575-2</td>
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<tr>
<td>9975-F</td>
<td>575</td>
<td>4½&quot;/&quot; (121mm)</td>
<td>575-2</td>
<td>–</td>
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<tr>
<td>9857</td>
<td>299 (Top)</td>
<td>304L/248L-4 (Bottom)</td>
<td>4½&quot;/&quot; (114mm)</td>
<td>4½&quot;/&quot; (111mm)</td>
</tr>
<tr>
<td>9957-F</td>
<td>299F (Top)</td>
<td>304L (Bottom)</td>
<td>299F x 9954</td>
<td>304L</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>990/996 696/697</td>
<td>990/996 696/697</td>
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### Additional information

#### Strike

<table>
<thead>
<tr>
<th>Strike</th>
<th>Optional strike</th>
<th>Application</th>
<th>Trim/stile</th>
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</thead>
<tbody>
<tr>
<td>9827</td>
<td>9927 Latch retraction</td>
<td>Single door</td>
<td>3½&quot;/&quot; (94mm)</td>
</tr>
<tr>
<td>9827-F</td>
<td>9927-F</td>
<td>299 (Top)</td>
<td>304L/248L-4 (Bottom)</td>
</tr>
<tr>
<td>PL9827/PL9927 Puliman latch</td>
<td>Two vertical rod devices</td>
<td>3½&quot;/&quot; (94mm)</td>
<td></td>
</tr>
<tr>
<td>9847</td>
<td>9947-F</td>
<td>338 (Top)</td>
<td>385A (Bottom)</td>
</tr>
<tr>
<td>9848</td>
<td>9948-F</td>
<td>338 (Top)</td>
<td>385A (Bottom)</td>
</tr>
<tr>
<td>9847WDC</td>
<td>9947WDC</td>
<td>338 (Top)</td>
<td>385A (Bottom)</td>
</tr>
<tr>
<td>9847WDC-F</td>
<td>9947WDC-F</td>
<td>338 (Top)</td>
<td>385A (Bottom)</td>
</tr>
<tr>
<td>9849</td>
<td>9949-F</td>
<td>249 (Top)</td>
<td>349 (Bottom)</td>
</tr>
<tr>
<td>9849-F</td>
<td>9949-F</td>
<td>249 (Top)</td>
<td>349 (Bottom)</td>
</tr>
<tr>
<td>9850WDC</td>
<td>9950WDC</td>
<td>150 (Top)</td>
<td>450 (Bottom)</td>
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<tr>
<td>9850WDC-F</td>
<td>9950WDC-F</td>
<td>150 (Top)</td>
<td>450 (Bottom)</td>
</tr>
</tbody>
</table>

*499F strike is the top strike for LBR applications.*
Lever styles and finishes

**Decorative levers**

- M51
- M52
- M56
- M57
- M81
- M82
- M83
- ME1
- ME2
- ME3

**Standard levers**

- 01
- 02
- 07
- 12
- ACC
- AST
- ME3
- M62
- M63
- M64
- M65
- M66
- M67
- M68
- M69
- M70
- M71
- M72
- M73
- M74
- M75
- M76
- M77
- M78
- M79
- M81
- M82
- M83
- M84
- M85

1. Available in stainless steel substrate ONLY.
2. Knurling available.
3. Handed.
4. Designed with Gensler as product design consultant.

---

**Finish options**

<table>
<thead>
<tr>
<th>Color</th>
<th>Bright Brass</th>
<th>Satin Brass</th>
<th>Satin Bronze</th>
<th>Satin Nickel</th>
<th>Matte Black/Anodized</th>
<th>Bright Chrome</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI/BHMA number</td>
<td>605</td>
<td>606</td>
<td>612</td>
<td>619</td>
<td>622/711</td>
<td>625</td>
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</table>

**Finish options**

<table>
<thead>
<tr>
<th>Color</th>
<th>Satin Chrome</th>
<th>Aluminum, anodized</th>
<th>Satin Stainless</th>
<th>Aged Bronze</th>
<th>Black Paint</th>
<th>Dark Brown, Anodized</th>
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</thead>
<tbody>
<tr>
<td>ANSI/BHMA number</td>
<td>626/626AM†</td>
<td>628</td>
<td>630/630AM†</td>
<td>643e</td>
<td>693</td>
<td>710</td>
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</tbody>
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* Durable powder coated finishes available at special request. Please contact factory.
† AM = Antimicrobial
Device finish options

Finishes

<table>
<thead>
<tr>
<th>Color</th>
<th>BHMA number</th>
<th>A, B, E</th>
<th>C</th>
<th>D and F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bright brass</td>
<td>605</td>
<td>Bright brass</td>
<td>Bright brass, 605</td>
<td>Buffed anodized</td>
</tr>
<tr>
<td>Satin brass</td>
<td>606</td>
<td>Satin brass</td>
<td>Satin brass, 606</td>
<td>Anodized</td>
</tr>
<tr>
<td>Satin bronze</td>
<td>612</td>
<td>Plated</td>
<td>Satin bronze, 612</td>
<td>Anodized</td>
</tr>
<tr>
<td>Satin bronze, oil-rubbed</td>
<td>613</td>
<td>Oil rubbed bronze</td>
<td>Oil rubbed bronze, 613</td>
<td>Powder coat</td>
</tr>
<tr>
<td>Bright chrome</td>
<td>625</td>
<td>Plated</td>
<td>Bright stainless steel, 629</td>
<td>Buffed anodized</td>
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<tr>
<td>Satin chrome</td>
<td>626</td>
<td>Plated</td>
<td>Satin stainless steel, 630</td>
<td>Anodized</td>
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<tr>
<td>Satin stainless steel*</td>
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<td>Stainless steel</td>
<td>Satin stainless steel, 630</td>
<td>Anodized</td>
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<tr>
<td>Aluminum, anodized</td>
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<td>Powder coat</td>
<td>Satin stainless steel, 630</td>
<td>Anodized</td>
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<tr>
<td>Duranodic dark bronze</td>
<td>710</td>
<td>Powder coat</td>
<td>Powder coat</td>
<td>Powder coat</td>
</tr>
<tr>
<td>Black</td>
<td>622</td>
<td>Powder coat</td>
<td>Powder coat</td>
<td>Powder coat</td>
</tr>
<tr>
<td>Aged bronze</td>
<td>643e</td>
<td>Relieved aged bronze</td>
<td>Relieved aged bronze</td>
<td>Aged bronze, no relief</td>
</tr>
</tbody>
</table>
About Allegion

Allegion (NYSE: ALLE) is a global pioneer in seamless access, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion secures people and assets with a range of solutions for homes, businesses, schools and institutions. Allegion had $2.7 billion in revenue in 2018, and sells products in almost 130 countries.

For more, visit www.allegion.com.