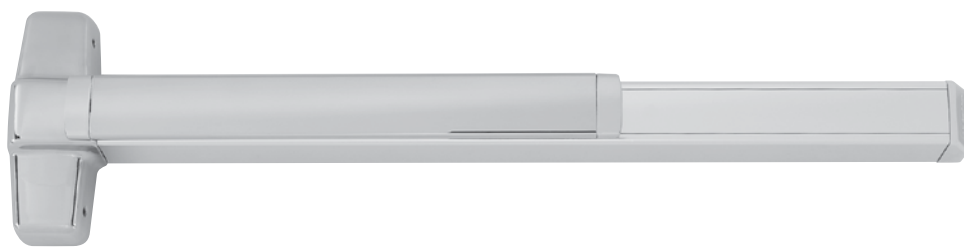


# 9850WDC-F/9950WDC-F Wood door concealed vertical rod fire device

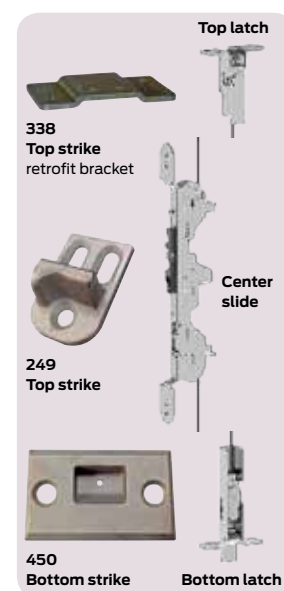


**9850WDC-F/9950WDC-F Fire exit concealed vertical cable device** for use on pairs of doors up to 8' x 9' 3" (2438mm x 2819mm) double wood doors, UL listed for fire exit hardware. See page 72 for detailed information on UL listed fire exit hardware label and door opening size information. Devices are ANSI A156.3 – 2001 Grade 1. 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). See opposite page for available outside trim and functions.

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

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

**Finishes** – US3, US3A, US4, US4A, US10, US26, US26D, US26D-AM Antimicrobial, US28, 313, 315 & 643E. US15 and US32D available with 98 Series only.



## 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 (shipped less UL label) |
|                                       | 3'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2'4" to 3' (711mm to 914 mm) Door size        |
|                                       | 4'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2'10" to 4' (864 mm to 1219 mm) Door size     |
| Device centerline from finished floor | 39 <sup>5</sup> / <sub>8</sub> " (1006 mm) Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                               |
| Center case dimensions                | 8" x 2 <sup>3</sup> / <sub>4</sub> " x 2 <sup>3</sup> / <sub>8</sub> " (203mm x 70mm x 60mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               |
| Mechanism case dimensions             | 2 <sup>1</sup> / <sub>4</sub> " x 2 <sup>1</sup> / <sub>4</sub> " (57mm x 57mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                               |
| Projection                            | Pushbar neutral – 3 <sup>13</sup> / <sub>16</sub> " (97 mm)<br>Pushbar depressed – 3 <sup>1</sup> / <sub>16</sub> " (78 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |
| Latch bolt                            | Deadlocking top & bottom bolt, 1 <sup>1</sup> / <sub>2</sub> " (38mm) throw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |
| Door undercut                         | 3/4" (19mm) maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                               |
| Top & bottom Latch case               | 5 <sup>13</sup> / <sub>16</sub> " x 1 <sup>1</sup> / <sub>4</sub> " x 1 <sup>7</sup> / <sub>16</sub> " (147mm x 32mm x 37mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               |
| Vertical cables                       | 7/32" (6mm) Diameter stainless steel cables                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |
| Fasteners & sex bolts (SNB)           | Includes screw pack for 1 <sup>3</sup> / <sub>4</sub> " (44mm) to 2 <sup>1</sup> / <sub>4</sub> " (57mm) thick wood doors.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |
| Electric options                      | <b>ALK</b> Alarm exit kit<br><b>CX</b> Chexit delayed exit<br><b>E</b> Electric unlocking and locking trim<br><b>EL</b> Electric latch retraction<br><b>HD-EL</b> Electric latch retraction w/ hex dogging<br><b>QEL</b> Quiet electric latch retraction<br><b>*LX</b> Latchbolt monitor switch<br><b>RX2</b> Double pushpad monitor switch<br><b>RX996L</b> Trim monitor switch<br><b>RX</b> Pushpad monitor switch<br><b>RXLC</b> Pushpad monitor switch - low current<br><b>SS</b> Signal switch<br><b>WP-RX</b> Waterproof request to exit<br><b>CON</b> Allegion Connect |                                               |
| Mechanical options                    | <b>GBK</b> Glass bead kit<br><b>LBL</b> Less bottom latch<br><b>PN</b> Pneumatic latch retraction<br><b>SEC</b> Security screws<br><b>SG</b> Safety glow<br><b>SNB</b> Sex bolts<br><b>SLM</b> Special laminate material blocking                                                                                                                                                                                                                                                                                                                                             |                                               |
| Dogging option                        | No mechanical dogging. EL and QEL option available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |
| Strikes                               | Top – 249 - Unfinished, Bottom – 450 - Unfinished                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               |

### CX

#### Chexit delayed exit

- Meets NFPA 101 requirements
- Self-contained controls, locking, alarm

### ALK

#### Alarm exit kit

- Unauthorized opening triggers 85-decibel horn
- Set in armed or disarmed mode by key

### EL

#### Electric latch retraction

- Enables remote unlatching
- Alternative to manual dogging

### LX

#### Latchbolt monitor switch

- Signals use of an opening
- SPDT switch to monitor latch bolt

### QEL

#### Quiet electric latch retraction

- Bolt retraction via switch
- Converts exit door to push-pull operation

### RX

#### Pushpad monitor switch

- Signals use of an opening
- SPDT switch to monitor pushpad

### E (E996L)

#### Electrified breakaway lever

- Electrified remote locking/unlocking
- Standard in fail safe condition

### CON

#### Allegion Connectors

- Common connectors to connect various door hardware all the way to the power supply

### PN

#### Pneumatic latch retraction

- For areas where electrical devices banned
- Special linkage for mechanical or pneumatic dogging

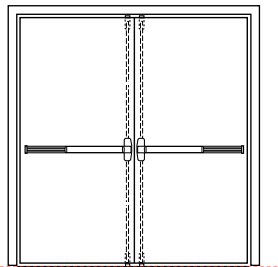
\*For 98/9950 devices, LX switch monitors trim input or electric dogging of EL/QEL devices. LX switch does not monitor latchbolt condition.



|                                       | EO                                                                                                                            | DT                                                                                                                                                                    | NL                                                                                                                                       | NL-OP                                                                                                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       |  <p><b>No outside trim</b><br/>Exit only</p> |  <p><b>Dummy trim</b><br/>Pull when dogged<br/>(not recommended for fire device)</p> |  <p><b>Night latch</b><br/>Key retracts latchbolt</p> |  <p><b>Night latch</b><br/>Key retracts latchbolt<br/>optional pull required</p> |
| Product description                   | 9850WDC-EO-F<br>9950WDC-EO-F                                                                                                  | —<br>—                                                                                                                                                                | 9850WDC-NL-F<br>9950WDC-NL-F                                                                                                             | 9850WDC-NL-OP-F<br>9950WDC-NL-OP-F                                                                                                                                  |
| Trim description                      | —                                                                                                                             | 990DT                                                                                                                                                                 | 990NL-R/V                                                                                                                                | 110NL-WD                                                                                                                                                            |
| Escutcheon plate size                 | —                                                                                                                             | 3" x 14 <sup>13/16</sup> " x 3 <sup>3/32</sup> "<br>(76x360x2mm)                                                                                                      | 3" x 14 <sup>13/16</sup> " x 3 <sup>3/32</sup> "<br>(76x360x2mm)                                                                         | —                                                                                                                                                                   |
| Pull center to center                 | —                                                                                                                             | 5 1/2" (140mm)                                                                                                                                                        | 5 1/2" (140mm)                                                                                                                           | —                                                                                                                                                                   |
| Projection                            | —                                                                                                                             | 2" (51mm)                                                                                                                                                             | 2" (51mm)                                                                                                                                | —                                                                                                                                                                   |
| ANSI function                         | 01                                                                                                                            | 02                                                                                                                                                                    | 03                                                                                                                                       | 03                                                                                                                                                                  |
| Cylinder type                         | —                                                                                                                             | —                                                                                                                                                                     | Rim                                                                                                                                      | Rim                                                                                                                                                                 |
| Handing                               | —                                                                                                                             | —                                                                                                                                                                     | —                                                                                                                                        | —                                                                                                                                                                   |
| Optional trim                         | x990EO<br>x996EO                                                                                                              | x996K-DT<br>x996L-DT<br>x996L-DT<br>x696DT<br>x697DT                                                                                                                  | x996K-NL<br>x996L-NL<br>x996L-NL<br>x696NL<br>x697NL                                                                                     |                                                                                                                                                                     |
| Optional #425 SNB quantity for device | 6                                                                                                                             | 2                                                                                                                                                                     | 2                                                                                                                                        | 6                                                                                                                                                                   |

|                                              |  <p><b>L</b></p> <p><b>Lever</b><br/>Key locks &amp; unlocks</p> |  <p><b>L-NL</b></p> <p><b>Lever – night latch</b><br/>Key retracts latchbolt</p> |  <p><b>L-BE</b></p> <p><b>Lever – blank escutcheon</b><br/>Always operable (no cylinder)</p> |  <p><b>L-DT</b></p> <p><b>Lever dummy trim</b><br/>pull when dogged<br/>(not recommended for fire device)</p> |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product description</b>                   | 9850WDC-L-F<br>9950WDC-L-F                                                                                                                          | 9850WDC-L-NL-F<br>9950WDC-L-NL-F                                                                                                                                    | 9850WDC-L-BE-F<br>9950WDC-L-BE-F                                                                                                                                                  | —<br>—                                                                                                                                                                                             |
| <b>Trim description</b>                      | 996L-R/V*                                                                                                                                           | 996L-NL-R/V                                                                                                                                                         | 996L-BE-R/V*                                                                                                                                                                      | 996L-DT                                                                                                                                                                                            |
| <b>Escutcheon plate size</b>                 | 2 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> " x 27 <sup>7</sup> / <sub>32</sub> "<br>(70x273x21mm)                             | 2 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> " x 27 <sup>7</sup> / <sub>32</sub> "<br>(70x273x21mm)                                             | 2 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> " x 27 <sup>7</sup> / <sub>32</sub> "<br>(70x273x21mm)                                                           | 2 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> " x 27 <sup>7</sup> / <sub>32</sub> "<br>(70x273x21mm)                                                                            |
| <b>Pull center to center</b>                 | —                                                                                                                                                   | —                                                                                                                                                                   | —                                                                                                                                                                                 | —                                                                                                                                                                                                  |
| <b>Projection</b>                            | 2 <sup>7</sup> / <sub>8</sub> " (73mm)                                                                                                              | 2 <sup>7</sup> / <sub>8</sub> " (73mm)                                                                                                                              | 2 <sup>7</sup> / <sub>8</sub> " (73mm)                                                                                                                                            | 2 <sup>7</sup> / <sub>8</sub> " (73mm)                                                                                                                                                             |
| <b>ANSI function</b>                         | 08                                                                                                                                                  | 03                                                                                                                                                                  | 14                                                                                                                                                                                | 02                                                                                                                                                                                                 |
| <b>Cylinder type</b>                         | Rim                                                                                                                                                 | Rim                                                                                                                                                                 | —                                                                                                                                                                                 | —                                                                                                                                                                                                  |
| <b>Handing</b>                               | Handed/Reversible                                                                                                                                   | Handed/Reversible                                                                                                                                                   | Handed/Reversible                                                                                                                                                                 | Handed/Reversible                                                                                                                                                                                  |
| <b>Optional #425 SNB quantity for device</b> | 2                                                                                                                                                   | 2                                                                                                                                                                   | 2                                                                                                                                                                                 | 2                                                                                                                                                                                                  |

| Standard door opening height |                 |
|------------------------------|-----------------|
| Feet                         | Cable tolerance |
| 6'8" - 7'                    | 72" - 84"       |
| 7'1" - 8'                    | 85" - 96"       |
| 8'1" - 9'                    | 97" - 108"      |
| 9'1" - 10'                   | 109" - 120"     |



See table on left for standard offering.

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