EXIT DEVICES
Apex 2000 Series
Introduction

The Apex 2000 Series Touchbar Style Exit Device is highly regarded by architects and end-users alike. Many of the nation’s largest healthcare and educational facilities prefer the Apex for its aesthetic design and efficient engineering. All Apex 2000 Series Exit Devices are UL listed for panic and fire hardware and are certified to ANSI A156.3 Grade 1. Several models are also certified for hurricane resistant applications.

A complete offering of mechanical and electrical options provide a wide range of exit device security solutions. However, the traditional core strengths of the product can’t be overstated. Simple operation with few moving parts, manufactured with true ANSI/BHMA architectural finishes. The chassis is constructed from investment cast steel and the universal mounting holes provide an easier retrofit installation.

Quiet Operation

Sound Dampeners reduce the noise associated with Exit Device operation on the depression and return stroke of the Touchpad.

Touchbar Clearance

The Apex Wide Stile Series Exit Devices accommodate doors with vision lites or glass windows where the vision lite frames or moldings project up to 1/4 beyond the face of the door. The Active Case and End Cap Mounting Bracket are mounted on the face of the door without shims or without cutting the glass molding. These devices have a 1/4” gap between the face of the door and the Touchbar Assembly. This gap allows proper functioning of the devices even on doors which are not perfectly flat. Since the Active Case is mounted directly on the face of the door, it accommodates standard lengths of through bolting screws, thumbpieces, knob & lever Trim fingers, and cylinder tail pieces.
### Base Materials

<table>
<thead>
<tr>
<th>Finishes</th>
<th>ANSI/BHMA</th>
<th>US</th>
<th>Aluminum</th>
<th>Brass</th>
<th>Bronze</th>
<th>Stainless Steel</th>
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### Mullion finishes

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<td>Dark Bronze Paint</td>
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### Fasteners

Furnished standard with machine screws and full thread wood/sheet metal screws. Specify Sex Nuts and Bolts (SNB) where recommended or required by the door manufacturer.

### Sex Nuts & Bolts (not furnished std.)

Sex Nuts & Bolts are furnished with No. 10-24 x 1" OHMS (1-1/2" long screws required for guides).

### Security Screws

All exposed screws will be a Torx pin in tamper resistant type, machine screws only. Specify (SEC) Security Screws. Cover Screws use a T20 driver, End Cap Screws use a T25 driver.

### Door Sizes

Stock sizes for door widths and heights are listed below. If required, cut to size in the field.

#### Door Widths

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<th>Stock Sizes</th>
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<td>2'-0&quot; to 2'-6&quot;</td>
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<tr>
<td>2'-7&quot; to 3'-0&quot;</td>
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<tr>
<td>3'-1&quot; to 4'-0&quot;</td>
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* Not available for Narrow Stile Devices.

#### Vertical Rod Devices

<table>
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<tr>
<th>Device</th>
<th>Door Heights</th>
<th>Stock Sizes</th>
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<tbody>
<tr>
<td>Surface Vertical Rod Device</td>
<td>up to 7'-0&quot;</td>
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<tr>
<td>Concealed Vertical Rod Device</td>
<td>6'-8&quot; to 8'-0&quot;</td>
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<tr>
<td>Concealed Vertical Rod Device</td>
<td>8'-1&quot; to 10'-0&quot;</td>
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</table>

* Surface Vertical Rods are furnished of the same material as the device. Stainless steel rods are furnished for 625, 628 and 630 devices.

### Hand of Doors

- LHRB Shown
- RHRB Shown
RIM EXIT DEVICES

Apex 2100 Series - **Reversible**
Apex FL2100 Fire Exit Series - **Reversible**

**DOORS** - For all types of single and double doors with a mullion. For mullions, see page 18. Available for 1-3/4” to 2-1/4” thick, up to 4’0” wide opening. For thicker doors, consult factory. Furnished standard for 1-3/4” thick, 3’0” wide opening.

**DEVICE** - Covers ANSI A115.2 (Type 161), A115.18 cylinder lock and A115.1 (Type 86) Mortise Lock preparation.

**FUNCTIONS** - Functions are field selectable except for the Double Cylinder option. The device is furnished for a desired function if specified. If not specified the “03” function is furnished standard.

**DOUBLE CYLINDER** - Handed, “10” Function available. Requires two rim type cylinders, not furnished standard. See page 5 and 19.

**BASE MATERIAL** - The Cover, Touchbar, Device Channel, Lock/Hinge Side Filler and End Cap are furnished of heavy wrought Brass, Bronze or Stainless Steel. 628 Devices are furnished with Aluminum, Brass, Bronze and Stainless Steel components. See “Finish & Base Material” chart page 3.

**CHASSIS** - Investment Cast Steel, Zinc Dichromated.

**LATCHBOLT** - Stainless Steel, Deadlocking, 3/4” throw.

**STRIKES** - No. S300, Investment Cast Stainless Steel, Black Powder Coated furnished standard. No. S988, optional strike for use on Aluminum Door applications, please specify when ordering. No. S458, optional strike for use on Mullion applications, please specify when ordering. For optional strike information see page 34.

**DOGGING** - 1/4” turn hex key dogging standard. NOT available on Fire Exit Hardware.

**TOUCHBAR HEIGHT** - 39-15/16” from floor standard. May be varied as situation dictates.

**REVERSIBLE** - Reversible for all functions and Trims. Standard packaging RHRB.

**UL LISTED** - Panic and Fire Exit Hardware. For FIRE EXIT HARDWARE Ratings see page 33. Conforms to UL10C and UBC 7-2.

**ANSI/BHMA** - Devices are BHMA certified for ANSI 156.3, Grade 1.

**FINISHES** - 605, 606, 612, 613, 625, 626W, 628, 630. For Finish description see page 3.

**CYLINDERS** - Rim Type, not furnished standard. Specify when required. For cylinder details see page 19.

**STILE WIDTH** - See Stile Information on page 36.

**RETROFIT APPLICATIONS** - The 2100 and FL2100 Series Devices are designed to retrofit into other manufacturers’ mounting hole locations. 1700 Series Pull Trim and 4900 Series Lever Trim may also be factory set for these applications by specifying prefix “R” (e.g. 2108 R4908A). Consult factory for details.

**Apex 21 Series – Nonhanded**

The 21 Series Device is designed to be compatible with many manufacturers’ Access Control exterior trim. The device incorporates a center driven cam to receive the tailpiece of the access control product. The tailpiece rotation required to retract the latch is a minimum of 50 degrees. Consult factory for details.

**DEVICE OPTIONS**

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<th>Description</th>
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<td>Quick Connect Plugs</td>
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<td>DE</td>
<td>Delayed Egress</td>
<td>24</td>
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<td>E</td>
<td>Electric Device</td>
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<td>FL</td>
<td>Fire Exit Hardware</td>
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<td>HC</td>
<td>Windstorm and Hurricane Code Device</td>
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<td>LDS</td>
<td>Latchbolt Monitoring Double Switch</td>
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<td>Motorized Latch Retraction</td>
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<td>Q</td>
<td>Wireless Access Management System</td>
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<td>Weatherized Touchbar Monitoring Switch</td>
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To specify add Prefix to Device No. (e.g. TS2103)

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<th>Description</th>
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<td>Exit Alarm: battery operated</td>
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<td>ALW</td>
<td>Exit Alarm: remote power</td>
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<td>BRL</td>
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<td>Cylinder Dogging</td>
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<td>DS</td>
<td>Door Position Monitoring Switch</td>
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<td>LD</td>
<td>Less Dogging</td>
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<td>Sex Nut and Bolt</td>
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<td>WALW</td>
<td>Weatherized Exit Alarm: remote power</td>
<td>27</td>
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</tbody>
</table>

To specify add Suffix to Device No. (e.g. 2103CD)

S300 Standard
1. All Trims are furnished with wrought plates and extruded or cast solid grips.
3. 630 Trim is furnished for 1700 Series Trim, 628 and 630 Devices.
4. 626 Trim is furnished for 626W Devices.

Retrofit Applications
The R1700 Series Trim is designed to retrofit into other manufacturers’ installations when used with the wide stile Apex Series Devices. Consult factory for details.

V4908A Vandal Resistant Trim
A heavy duty lever trim designed to withstand abuse and vandalism. Composed of extra strength shock-absorbing "overload" springs and heavy duty investment cast stainless steel internal components. Lever returns to the "home" position eliminating the need to reset the lever.

Retrofit Applications
The R4900 Series Trim is designed to retrofit into other manufacturers’ installations when used with the wide stile Apex Series Devices. Consult factory for details.

1. All the escutcheons and levers are castings or forgings.
2. Specify Lever or Knob Design (A, B, C, D, K) and Handing ("A" Lever x RHRB furnished standard)
3. 626 Trim furnished for 626W, 628 and 630 Devices.
   • For Trim dimensions see page 38.
   • Trims are BHMA certified for ANSI 156.3, Grade 1.
   • Trims are through bolted and will cover 161 and 86 cutouts (except for 2000C Trim).
   • Cylinder, Rim Type, not furnished standard. For cylinder details see page 19.

ANSI Function

<table>
<thead>
<tr>
<th>Device Nos.</th>
<th>Exit Only (cover plate)</th>
<th>Dummy Trim</th>
<th>Key Retracts/Latchbolt</th>
<th>Key Locks/Unlocks</th>
<th>Key Locks/Unlocks Lever/Knob</th>
<th>Double Cylinder</th>
<th>Inside Key Locks/Unlocks Lever/Knob</th>
<th>No Cylinder Lever/Knob Always Active</th>
<th>No Cylinder Thumbpiece Always Active</th>
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<tr>
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<td>2101</td>
<td>2102</td>
<td>2103**</td>
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<td>2110</td>
<td>2114</td>
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</tbody>
</table>

TS2108CD x V4908AKNR x RHRB x 630 x S300 x 3-0” x 7-0” x 1-3/4”
Apex 2200 Series - Reversible
Apex FL2200 Fire Exit Series - Reversible

DOORS - For all types of single and double door applications. Available for 1-3/4" to 2-1/4" thick, up to 4'-0" wide by 10'-0" high openings. For thicker doors, consult factory. Furnished standard for 1-3/4" thick, 3'-0" wide by 7'-0" high openings.

DEVICE - Covers ANSI A151.2 (Type 161), A151.18 cylinder lock and A151.1 (Type 86) Mortise Lock preparation.

FUNCTIONS - Functions are field selectable. The device is furnished for a desired function if specified. If not specified the “03” function is furnished standard.

BASE MATERIAL - The Covers, Touchbar, Device Channel, Lock/Hinge Side Filler, Vertical Rods and End Cap are furnished of heavy wrought Brass, Bronze or Stainless Steel. US28 Devices are furnished with Aluminum, Brass, Bronze and Stainless Steel components. See “Finish & Base Material” chart on page 3.

CHASSIS - Investment Cast Steel, Zinc Dichromated.

TOP LATCHBOLT - Stainless Steel, Deadlocking, 3/4" throw.

BOTTOM BOLT - Steel plated, independent action 5/8" throw, with adjustment range to suit 3/4" door undercut.

TOP STRIKE - No. S300 Surface applied, Investment Cast Stainless Steel, Black Powder Coated furnished standard. For optional strikes see page 34.

BOTTOM STRIKE - No. S460, Flush mounted, Steel, Black Powder Coated.

DOGGING - 1/4" turn hex key dogging standard. NOT available on Fire Exit Hardware.

TOUCHBAR HEIGHT - 39-15/16" from floor standard. Specify required height if other than standard.

REVERSIBLE - Reversible for all functions and trims. Standard packing RHRB.

UL LISTED - Panic and Fire Exit Hardware. For FIRE EXIT HARDWARE Ratings see page 33. Conforms to UL10C and UBC 7-2.

ANSI/BHMA - Devices are BHMA certified ANSI 156.3, Grade 1.

FINISHES - 605, 606, 612, 613, 625, 626W, 628, 630. For finish description see page 3.

CYLINDERS - Rim type, not furnished standard. Specify when required. For cylinder details see page 19.

STILE WIDTH - See Stile Information on page 36.

LESS BOTTOM ROD (LBR) OPTION - Specify suffix “LBR” (e.g. FL2200LBR). See UL FIRE LABEL RATING chart on page 39. Fire Rated Devices include FB277 Fire Bolt Assembly. For Fire Bolt Assembly image see page 35.

RETROFIT APPLICATIONS - The 2200 and FL2200 Series Devices are designed to retrofit into other manufacturers’ mounting hole locations. 1700 Series Pull Trim and 4900 Series Lever Trim may also be factory set for these applications by specifying prefix “R” (e.g. 2208 R4908A).

Apex 22 Series - Reversible

The 22 Series Device is designed to be compatible with many manufacturers’ Access Control exterior trim. The device incorporates a center driven cam to receive the tailpiece of the access control product. The tailpiece rotation required to retract the latch is a minimum of 50 degrees.

Consult factory for details.

Prefix Description Page
C Quick Connect Plugs.......................................39
E Electric Device............................................28
ELR Electric Latch Retraction..........................21
FL Fire Exit Hardware......................................6
HC Windstorm and Hurricane Code Device..........20
LS Latchbolt Monitoring Switch.......................29
MLR Motorized Latch Retraction.......................40-41
Q Wireless Access Management System..30-32
TDS Touchbar Monitoring Double Switch...........29
TS Touchbar Monitoring Switch........................29
WTDS Weatherized Touchbar Mon. Dbl Switch.....29
WTS Weatherized Touchbar Mon. Switch.............29

Suffix Description Page
ALK Exit Alarm: battery operated....................27
ALW Exit Alarm: remote power........................27
BRL Braille Touchbar........................................35
CD Cylinder Dogging.......................................19
DS Door Position Monitoring Switch...............29
LBR Less Bottom Rod.....................................6
LD Less Dogging.............................................19
SEC Security Screws........................................3
SNB Sex Nut and Bolt.......................................3
TMB Transom Bracket......................................35
WALW Weatherized Exit Alarm: remote power......27

To specify add Prefix to Device No. (e.g. TS2203)
1. All the escutcheons and levers are castings or forgings.
2. Specify Lever or Knob Design (A,B,C,D,K) and Handing ("A" Lever x RHRB furnished standard)
3. 626 Trim furnished for 626W, 628 and 630 Devices.

- For Trim dimensions see page 38.
- Trims are BHMA certified for ANSI 156.3, Grade 1.
- Trims are through bolted and will cover 161 and 86 cutouts (except for 2000C Trim).
- Cylinder, Rim Type, not furnished standard. For cylinder details see page 19.

### ANSI Function

<table>
<thead>
<tr>
<th>Device Nos.</th>
<th>Exit Only (cover plate)</th>
<th>Dummy Trim</th>
<th>Key Retracts</th>
<th>Key Locks/Unlocks</th>
<th>Key Locks/Unlocks</th>
<th>No Cylinder Lever/Knob</th>
<th>No Cylinder Thumbpiece</th>
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</table>

### Device with Trim:

- Device No.
- Add Prefix for options, see page 6.

### Device Only:

Device no., hand, finish, strike, and door size including thickness:
(e.g. TS2208CD x RHRB x 630 x 3'-0" x 7'-0" x 1-3/4"

### Trim Only:

Trim no., hand, finish, strike, and door size including thickness: (e.g. V4908A x RHRB x 626 x 1-3/4"

* 2203 & FL2203 x Cylinder Only Application includes Cylinder Attachment Kit “CA-03”

### Retrofit Applications

The R1700 Series Trim is designed to retrofit into other manufacturers’ installations when used with the wide stile Apex Series Devices.

Consult factory for details.

### Vandal Resistant Trim

A heavy duty lever trim designed to withstand abuse and vandalism. Composed of extra strength shock-absorbing “overload” springs and heavy duty investment cast stainless steel internal components. Lever returns to the “home” position eliminating the need to reset the lever.

### Retrofit Applications

The R4900 Series Trim is designed to retrofit into other manufacturers’ installations when used with the wide stile Apex Series Devices.

Consult factory for details.
MORTISE EXIT DEVICES

Apex 2300 Series - Handed

Apex FL2300 Fire Exit Series - Handed

DOORS - For all types of single and double door applications. Available for 1-3/4” to 2-1/4” (Rim & SVR) and 1-3/4” (Mortise & CVR) thick, up to 4-0” wide opening. For thicker door, consult factory. Furnished standard for 1-3/4” thick, 3-0” wide opening.

DEVICE - Covers ANSI A115.1 (Type 86) Mortise Lock preparation.

DOUBLE CYLINDER - Handed, “10” Function available. Requires one rim type cylinder and one 1-1/4” long mortise type cylinder, not furnished standard. See page 9 and 19.

BASE MATERIAL - The Cover, Touchbar, Device Channel, Lock/hinge side Filler and End Cap are furnished of heavy wrought Brass, Bronze or Stainless Steel. US28 Devices are furnished with Aluminum, Brass, Bronze and Stainless Steel components. See “Finish & Base Material” chart on page 3.

CHASSIS - Investment Cast Steel, Zinc Dichromated.

TOUCHBAR HEIGHT - 39-15/16” from floor standard.

HANDED - Specify hand when ordering as RHRB or LHRB. Touchbar Assembly, Mortise Lock and Trim may be reversed in the field. For reversibility of complete device, mortise strike is required for the other hand.

UL LISTED - Panic and Fire Exit Hardware. For FIRE EXIT HARDWARE Ratings see page 33. Conforms to UL10C and UBC 7-2.

ANSI/BHMA - Devices are BHMA certified for ANSI 156.3, Grade 1.

FINISHES - 605, 606, 612, 613, 625, 630. 630 furnished for 626 and 628 locks. For finish description see page 3.

STILE WIDTH - See Stile Information on page 36.

DEVICE OPTIONS

Prefix Description Page
C Quick Connect Plugs.............................................39
DE Delayed Egress ..............................................24
E Electric Lock/Unlock..........................................28
ELR Electric Latch Retraction..................................21
FL Fire Exit Hardware............................................8
HC Windstorm and Hurricane Code Device.................20
LS Auxiliary Latchbolt Monitoring.
   “03” Function..................................................28, 29
LS Latchbolt and Trim locked or unlocked monitoring, “08” Function........................................28, 29
MLR Motorized Latch Retraction..............................40-41
TDS Touchbar Monitoring Double Switch....................29
TS Touchbar Monitoring Switch...............................29

Suffix Description
WTDS Weatherized Touchbar Monitor Dbl. Switch..........29
WTS Weatherized Touchbar Monitor Switch................29

Prefix Description Page
ALK Exit Alarm: battery operated...............................27
ALW Exit Alarm: remote power..................................27
BRL Braille Touchbar.............................................35
CD Cylinder Dogging..............................................19
DS Door Position Monitoring Switch.........................29
LD Less Dogging..................................................19
SEC Security Screws ............................................3
SNC Screw Nut and Bolt.........................................3
WALW Weatherized Exit Alarm: remote power.............27

To specify add Prefix to Device No. (e.g. TS2303)
1. All Trims are furnished with wrought plates and extruded or cast solid grips.
3. 630 Trim is furnished for 628 Devices.
4. 626 Trim is furnished for 626W Devices.

NOTE: B & C grip pull handles are not available in the .05 and 15 functions.

Retrofit Applications
The R1700 Series Trim is designed to retrofit into other manufacturers’ installations when used with the wide stile Apex Series Devices. Consult factory for details.

V4908A
Vandal Resistant Trim
A heavy duty lever trim designed to withstand abuse and vandalism. Composed of extra strength shock-absorbing “overload” springs and heavy duty investment cast stainless steel internal components. Lever returns to the “home” position eliminating the need to reset the lever.

Retrofit Applications
The R4900 Series Trim is designed to retrofit into other manufacturers’ installations when used with the wide stile Apex Series Devices. Consult factory for details.

ANSI Function
01 Exit Only (cover plate) 02 Dummy Trim 03 Key Retracts Latchbolt 05 Key Locks/Unlocks Thumbpiece 08 Key Locks/Unlocks Lever/Knob 10* Double Cylinder Inside Key Locks/Unlocks Lever/Knob 14 No Cylinder Lever/Knob Always Active 15 No Cylinder Thumbpiece Always Active

<table>
<thead>
<tr>
<th>Device No.</th>
<th>FL2301</th>
<th>2302</th>
<th>FL2303**</th>
<th>FL2305</th>
<th>FL2308</th>
<th>FL2310</th>
<th>FL2314</th>
<th>FL2315</th>
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<tr>
<td>Trim Nos.</td>
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<td>M1705A</td>
<td>M4908A</td>
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</table>

Device with Trim:

Add Suffix: for options, see page 8.
Add Prefix: “V” Vandal Resistant Lever Trim
“M” Mortise Trim (per specific function, see above)
“R” Retrofit Trim
Add Suffix: Lever or Knob Design (A,B,C,D,K) Grip Design (A,B,C)
Add Suffix: “KNR” Knurled Lever or Grip

Device Only: Device no., hand, finish, strike, and door size including thickness: (e.g. TS2108CD x RHRB x 630 x S982 x 3'-0" x 7'-0" x 1-3/4")
Trim Only: Trim no., hand, finish, strike, and door size including thickness: (e.g. VM4908A x RHRB x 626 x 1-3/4")
**RIM EXIT DEVICES**

**Apex 2400 Series - Non Handed**

**Apex FL2400 Fire Exit Series - Non Handed**

**DOORS** - For all types of single and double doors with a mullion. For mullions, see page 18. Available for 1-3/4” to 2-1/4” thick, up to 4’-0” wide opening. For thicker door, consult factory. Furnished standard for 1-3/4” thick, 3’-0” wide opening.

**FUNCTIONS** - A Universal Exit Device. Add Trim for desired function.

**BASE MATERIAL** - The Cover, Touchbar, Device Channel, Lock/Hinge Side Filler and End Cap are furnished of heavy wrought Brass, Bronze or Stainless Steel. US28 Devices are furnished with Aluminum, Brass, Bronze and Stainless Steel components. See “Finish & Base Material” chart on page 3.

**CHASSIS** - Investment Cast Steel, Zinc Dichromated.

**LATCHBOLT** - Stainless Steel, Deadlocking, 3/4” throw.

**STRIKES** - No. S988, standard package for Aluminum Door applications, Black Powder Coated Stainless Steel Roller Strike. No. S458, optional for Hollow Metal Door or Mullion applications, please specify when ordering. For optional strike information see page 34.

**DOGGING** - 1/4” turn hex key dogging standard. NOT available on Fire Exit Hardware.

**TOUCHBAR HEIGHT** - 39-15/16” from floor standard. May be varied as situation dictates.

**UL LISTED** - Panic and Fire Exit Hardware. For FIRE EXIT HARDWARE Ratings see page 33. Conforms to UL10C and UBC 7-2.

**ANSI/BHMA** - Devices are BHMA certified for ANSI 156.3, Grade 1.

**FINISHES** - 605, 606, 612, 613, 625, 626W, 628, 630. For finish description see page 3.

**CYLINDERS** - Rim Type for “03” function, Mortise type for “08” function. Use 1-1/4” long standard mortise cylinder. Cylinders are not furnished standard. Specify when required. For cylinder details see page 19.

**STILE WIDTH** - See Stile Information on page 37.

**DEVICE OPTIONS**

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
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<td>C</td>
<td>Quick Connect Plugs</td>
<td>39</td>
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<td>DE</td>
<td>Delayed Egress</td>
<td>24</td>
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<td>ELR</td>
<td>Electric Latch Retraction</td>
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<td>FL</td>
<td>Fire Exit Hardware</td>
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<td>MLR</td>
<td>Motorized Latch Retraction</td>
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<td>TDS</td>
<td>Touchbar Monitoring Double Switch</td>
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<td>TS</td>
<td>Touchbar Monitoring Switch</td>
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<td>WTDS</td>
<td>Weatherized Touchbar Mon. Dbl. Switch</td>
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<tr>
<td>WTS</td>
<td>Weatherized Touchbar Monitoring Switch</td>
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To specify add Prefix to Device No. (e.g. TS2403)

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<th>Suffix</th>
<th>Description</th>
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<td>ALK</td>
<td>Exit Alarm: battery operated</td>
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<tr>
<td>ALW</td>
<td>Exit Alarm: remote power</td>
<td>27</td>
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<td>BRL</td>
<td>Braille Touchbar</td>
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<td>CD</td>
<td>Cylinder Dogging</td>
<td>19</td>
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<td>DS</td>
<td>Door Position Monitoring Switch</td>
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<td>LD</td>
<td>Less Dogging</td>
<td>19</td>
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<td>SEC</td>
<td>Security Screws</td>
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<td>SNB</td>
<td>Sex Nut and Bolt</td>
<td>3</td>
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<tr>
<td>WALW</td>
<td>Weatherized Exit Alarm: remote power</td>
<td>27</td>
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</tbody>
</table>

To specify add Suffix to Device No. (e.g. 2403CD)
1. All the escutcheons and levers are castings or forgings.
2. For Lever Trim specify Lever Design (A, B, C, D) and Handing (“A” Lever RHRB furnished standard).
3. For 2900 Series Trim, 626 finish is furnished for 628 and 630 Devices.
4. 2000 Series Trim is furnished with a wrought plate and extruded solid “C” Grip.

- For Trim dimensions see page 38.
- Trims are BHMA certified for ANSI 156.3, Grade 1.
- Trims are through bolted.
- Cylinder, not furnished standard – Rim type for “03” function, 1-1/4” long mortise type for “08” function. For cylinder details see page 19.

<table>
<thead>
<tr>
<th>ANSI Function</th>
<th>01 Exit Only</th>
<th>02 Dummy Trim</th>
<th>03 Key Retracts Latchbolt</th>
<th>08 Key Locks/Unlocks Lever</th>
<th>14 No Cylinder Lever Always Active</th>
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<td>2001</td>
<td>2002C</td>
<td>2003C</td>
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</table>

**Device with Trim:**

Device No.  
Add Suffix: for options, see page 10.

Add Suffix: Lever Design (A,B,C,D)  
Grip Design (C)

Add Suffix: “KNR” Knurled Lever

**Device Only:** Device no., hand, finish, strike, and door size including thickness:  
(e.g. TS2408CD x RHRB x 630 x S988 x 3’0” x 7’0” x 1-3/4”)

**Trim Only:** Trim no., hand, finish, strike, and door size including thickness: (e.g. 2908A x RHRB x 626 x 1-3/4”)

* 2403 & FL2403 x Cylinder Only Application includes Cylinder Attachment Kit “NCA-03”
APEX 2000 SERIES DEVICES

NARROW CONCEALED VERTICAL ROD EXIT DEVICES

Apex 2600 Series - Reversible
Apex FL2600 Fire Exit Series - Reversible

DOORS - For all types of metal single and double door applications. Available for 1-3/4" to 2-1/4" (Rim & SVR) and 1-3/4" (Mortise & CVR) thick, up to 4'-0" wide by 10'-0" high openings. For thicker doors, consult factory. Furnished standard for 1-3/4" thick, 3'-0" wide by 6'-8" to 8'-0" high openings.

FUNCTIONS - A Universal Exit Device. Add Trim for desired function.

BASE MATERIAL - Side Filler and End Cap are furnished of heavy wrought Brass, Bronze or Stainless Steel. 628 Devices are furnished with Aluminum, Brass, Bronze and Stainless Steel components. See "Finish & Base Material" chart on page 3.

CHASSIS - Lock Stile Assembly - Investment Cast Steel, Zinc Dichromated.

TOP LATCHBOLT - Stainless Steel, Deadlocking.

TOP STRIKE - No. S519 Surface applied, Investment Cast Stainless Steel, Black Powder Coated.

BOTTOM STRIKE - No. S460, Flush mounted, Steel, Black Powder Coated.

DOGGING - 1/4" turn hex key dogging standard.

TOUCHBAR HEIGHT - 39-15/16" from floor standard.

UL LISTED - Panic and Fire Exit Hardware. For FIRE EXIT HARDWARE Ratings see page 33. Conforms to UL10C and UBC 7-2.

ANSI/BHMA - Devices are BHMA certified for ANSI 156.3, Grade 1.

FINISHES - 605, 626, 612, 613, 625, 626W, 628, 630. For finish description see page 3.

CYLINDERS - Rim Type for “03” function, 1-1/4” Long Mortise Type for “06” function. Cylinders are not furnished standard. Specify when required. For cylinder details see page 19.

BOTTOM BOLT - Steel plated, independent action 5/8” throw, with adjustment range to suit 3/4” door undercut.

CENTER CHASSIS - Steel plated, heavy wrought Steel Assembly with lock in place Top and Bottom Latch Adjustors. Adjustment is accessible through the door after installation.

STILE WIDTH - See Stile Information on page 37.

LESS BOTTOM ROD (LBR) OPTION - Specify suffix “LBR” (e.g. 2603LBR). See UL FIRE LABEL RATING Chart on page 33. Fire Rated Devices include FB277 Fire Bolt Assembly. For Fire Bolt Assembly image see page 35.

DEVICE OPTIONS

Prefix Description Page
C Quick Connect Plugs .................................39
DE Delayed Egress ........................................24
ELR Electric Latch Retraction .........................21
FL Fire Exit Hardware ....................................12
TDS Touchbar Monitoring Double Switch ...........29
TS Touchbar Monitoring Switch ....................29
WTDS Weatherized Touchbar Mon. Dbl. Switch ....29
WTS Weatherized Touchbar Mon. Switch ...........29

Suffix Description Page
ALK Exit Alarm: battery operated ..................27
ALW Exit Alarm: remote power .......................27
BRL Braile Touchbar ....................................35
CD Cylinder Dogging ..................................19
DS Door Position Monitoring Switch ...............29
LBR Less Bottom Rod ..................................12
LD Less Dogging .......................................19
MLR Motorized Latch Retraction .................40-41
SEC Security Screws ..................................3
SNB Sex Nut and Bolt ..................................3
WALW Weatherized Exit Alarm: remote power ....27

To specify add Prefix to Device No. (e.g. TS2603)

To specify add Prefix to Device No. (e.g. TS2603)
1. All the escutcheons and levers are castings or forgings.
3. 626 finish is furnished for 628 and 630 Devices.

- For Trim dimensions see page 38.
- Trims are BHMA certified for ANSI 156.3, Grade 1.
- Trims are through bolted.
- Cylinder, not furnished standard – Rim type for “03” function, 1-1/4"long mortise type for “08” function. For cylinder details see page 19.

<table>
<thead>
<tr>
<th>ANSI Function</th>
<th>01 Exit Only (cover plate)</th>
<th>02 Dummy Trim</th>
<th>03 Key Retracts Latchbolt</th>
<th>08 Key Locks/Unlocks Lever</th>
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<td>2914A</td>
</tr>
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</table>

Device with Trim:

Device No. Add Suffix: for options, see page 12.
Add Suffix: Lever Design (A,B,C,D)
Add Suffix: “KNR” Knurled Lever

Device Only: Device no., hand, finish, strike, and door size including thickness:
(e.g. TS2608CD x RHRB x 630 x 3'-0" x 7'-0" x 1-3/4"

Trim Only: Trim no., hand, finish, strike, and door size including thickness: (e.g. 2908A x RHRB x 626 x 1-3/4"

* 2603 & FL2603 x Cylinder Only Application includes Cylinder Attachment Kit "NCA-03"
WOOD DOOR CONCEALED VERTICAL ROD EXIT DEVICES

APEX 2000 SERIES DEVICES

WOOD DOOR CONCEALED VERTICAL ROD EXIT DEVICES

APEX 2700 SERIES - Reversible
APEX FL2700 FIRE EXIT SERIES - Reversible

DOORS - For all types of single and double door applications. Available for 1-3/4” to 2-1/4” thick, up to 4’-0” wide by 10’-0” high openings. For thicker doors, consult factory. Furnished standard for 1-3/4” thick, 3’-0” wide by 6’-8” to 8’-0” high openings.

FUNCTIONS - A Universal Exit Device. Add Trim for desired function.

BASE MATERIAL - Side Filler and End Cap are furnished of heavy wrought Brass, Bronze or Stainless Steel. 628 Devices are furnished with Aluminum, Brass, Bronze and Stainless Steel components. See “Finish & Base Material” chart on page 3.

CHASSIS - Lock Stile Assembly - Investment Cast Steel, Zinc Dichromated.

VERTICAL RODS - Steel, plated. Top Rod is adjustable from 6’-8” to 8’-0” or from 8’-1” to 10’-0”. Additional adjustments are available through the lock front filler.

TOP LATCHBOLT - Stainless Steel, Deadlocking, 3/4” throw.

BOTTOM BOLT - Steel plated, independent action 5/8” throw, with adjustment range to suit 3/4 door undercut.

TOP STRIKE - No. S519 Surface applied, Investment Cast Stainless Steel, Black Powder Coated.

BOTTOM STRIKE - No. S460 Flush mounted, Steel, Black Powder Coated.

DOGGING - 1/4 turn hex key dogging standard. NOT available on Fire Exit Hardware.

TOUCHBAR HEIGHT - 39-15/16 from floor standard. Specify required height if other than standard.

REVERSIBLE - Reversible for all functions and trims. Standard packaging RHRB.

UL LISTED - Panic and Fire Exit Hardware. For FIRE EXIT HARDWARE Ratings see page 33. Conforms to UL10C and UBC 7-2.

ANSI/BHMA - Devices are BHMA certified for ANSI 156.3, Grade 1.

FINISHES - 605, 606, 612, 613, 625, 626W, 628, 630. For finish description see page 3.

CYLINDERS - Rim Type, not furnished standard. Specify when required. For cylinder details see page 19.

STILE WIDTH - See Stile Information on page 36.

LESS BOTTOM ROD (LBR) OPTION - Specify suffix “LBR” (e.g. 2703LBR). See UL FIRE LABEL RATING Chart on page 33. Fire Rated Devices include FB277 Fire Bolt Assembly. For Fire Bolt Assembly image see page 35.

To specify add Prefix to Device No. (e.g. TS2703)
1. All Trims are furnished with wrought plates and extruded or cast solid grips.
3. 630 Trim is furnished for 628 Devices.
4. 626 Trim is furnished for 628W Devices.

V4908A Vandal Resistant Trim
A heavy duty lever trim designed to withstand abuse and vandalism. Composed of extra strength shock-absorbing "overload" springs and heavy duty investment cast stainless steel internal components. Lever returns to the "home" position eliminating the need to reset the lever.

1. All the escutcheons and levers are castings or forgings.
2. Specify Lever or Knob Design (A, B, C, D, K) and Handing ("A" Lever x RHRB furnished standard)
3. 626 Trim furnished for 626W, 628 and 630 Devices.

- For Trim dimensions see page 38.
- Trims are BHMA certified for ANSI 156.3, Grade 1.
- Trims are through bolted and will cover 161 and 86 cutouts (except for 2000C Trim).
- Cylinder, Rim Type, not furnished standard. For cylinder details see page 19.

---

<table>
<thead>
<tr>
<th>ANSI Function</th>
<th>01 Exit Only (cover plate)</th>
<th>02 Dummy Trim</th>
<th>03 Key Retracts Latchbolt</th>
<th>05 Key Locks/Unlocks Thumbpiece</th>
<th>08 Key Locks/Unlocks Lever/Knob</th>
<th>14 No Cylinder Lever/Knob Always Active</th>
<th>15 No Cylinder Thumbpiece Always Active</th>
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</thead>
<tbody>
<tr>
<td>Device Nos.</td>
<td>2701 2702 2703** 2705</td>
<td>2708</td>
<td>2714 2715</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trim Nos.</td>
<td>1701 1702A 1703A 1705A</td>
<td>4908A 4914A</td>
<td>1715A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2001 2002C 2003C 2005C</td>
<td>V4908A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4901 4902A 4903A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Device with Trim:**
Device No.
Add Prefix for options, see page 14.
Add Suffix: for options, see page 14.
Add Prefix: "V" Vandal Resistant Lever Trim
Add Suffix: Lever or Knob Design (A, B, C, D, K) Grip Design (A, B, C)
Add Suffix: "KNR" Knurled Lever or Grip.

**Device Only:** Device no., hand, finish, strike, and door size including thickness:
(e.g. TS2708CD x RHRB x 630 x 3'-0" x 7'-0" x 1-3/4")

**Trim Only:** Trim no., hand, finish, strike, and door size including thickness: (e.g. V4908A x RHRB x 626 x 1-3/4")
CONCEALED VERTICAL ROD EXIT DEVICES

Apex 2800 Series - Reversible
Apex FL2800 Fire Exit Series - Reversible

DOORS - For all types of metal single and double door applications. Available for 1-3/4" to 2-1/4" thick, up to 4'-0" wide by 10'-0" high openings. For thicker doors, consult factory. Furnished standard for 1-3/4" thick, 3'-0" wide by 6'-8" to 8'-0" high openings.

FUNCTIONS - Functions are field selectable. The device is furnished for a desired function if specified. If not specified the "03" function is furnished standard.

BASE MATERIAL - The Cover, Touchbar, Device Channel, Lock/Hinge Side Filler and End Cap are furnished of heavy wrought Brass, Bronze or Stainless Steel. US28 Devices are furnished with Aluminum, Brass, Bronze and Stainless Steel components. See "Base Material and Finish Chart" on page 3.

CHASSIS - Lock Stile Assembly - Investment Cast Steel, Zinc Dichromated.

VERTICAL RODS - Steel, plated. Top Rod is adjustable from 6'-8" to 8'-0" or from 8'-1" to 10'-0".

TOP LATCHBOLT - Stainless Steel, Deadlocking, 3/4" throw.

BOTTOM BOLT - Steel plated, independent action 5/8" throw, with adjustment range to suit 3/4" door undercut.

CENTER CHASSIS - Steel plated, heavy wrought Steel Assembly with lock in place Top and Bottom Latch Adjustors. Adjustment accessible through the door after installation.

STILE WIDTH - See Stile Information on page 36.

LESS BOTTOM ROD (LBR) OPTION - Specify suffix "LBR" (e.g. 2808LBR). See UL FIRE LABEL RATING chart on page 33. Fire Rated Devices include FB277 Fire Bolt Assembly. For Fire Bolt Assembly image see page 35.

DEVICE OPTIONS

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Quick Connect Plugs</td>
<td>39</td>
</tr>
<tr>
<td>DE</td>
<td>Delayed Egress</td>
<td>24</td>
</tr>
<tr>
<td>E</td>
<td>Electric Device</td>
<td>28</td>
</tr>
<tr>
<td>ELR</td>
<td>Electric Latch Retraction</td>
<td>21</td>
</tr>
<tr>
<td>FL</td>
<td>Fire Exit Hardware</td>
<td>16</td>
</tr>
<tr>
<td>HC</td>
<td>Windstorm and Hurricane Code Device</td>
<td>20</td>
</tr>
<tr>
<td>LS</td>
<td>Latchbolt Monitoring Switch</td>
<td>29</td>
</tr>
<tr>
<td>MLR</td>
<td>Motorized Latch Retraction</td>
<td>40-41</td>
</tr>
<tr>
<td>TDS</td>
<td>Touchbar Monitoring Double Switch</td>
<td>29</td>
</tr>
<tr>
<td>TS</td>
<td>Touchbar Monitoring Switch</td>
<td>29</td>
</tr>
<tr>
<td>WTDS</td>
<td>Weatherized Touchbar Mon. Dbl. Switch</td>
<td>29</td>
</tr>
<tr>
<td>WTS</td>
<td>Weatherized Touchbar Mon. Switch</td>
<td>29</td>
</tr>
</tbody>
</table>

To specify add Prefix to Device No. (e.g. TS2803)
1700A  "A" Grip
1700B  "B" Grip
1700C  "C" Grip
C03 Cast Plate
  "Pull by others"

The CVR2803 with "Pull by Other" must be specified with No. C03 Cylinder Attachment Trim to secure the Rim Cylinder. Specify finish.

4900A  "A" Lever
4900B  "B" Lever
4900C  "C" Lever
4900D  "D" Lever
4900K  "K" Knob
V4908A Vandal Resistant Trim

A heavy duty lever trim designed to withstand abuse and vandalism. Composed of extra strength shock-absorbing "overload" springs and heavy duty investment cast stainless steel internal components. Lever returns to the "home" position eliminating the need to reset the lever.

1. All Trims are furnished with wrought plates and extruded or cast solid grips.
2. Specify Grip Design (A,B,C) ("A" Grip furnished standard for C1700 Series Trim)
3. 630 Trim is furnished for 628 Devices.
4. 626 Trim is furnished for 626W Devices.

1. All the escutcheons and levers are castings or forgings.
2. Specify Lever or Knob Design (A,B,C,D,K) and Handing ("A" Lever x RHRB furnished standard)
3. 626 Trim furnished for 626W, 628 and 630 Devices.
   • For Trim dimensions see page 38.
   • Trims are BHMA certified for ANSI 156.3, Grade 1.
   • Trims are through bolted and will cover 161 and 86 cutouts (except for 2000C Trim).
   • Cylinder, Rim Type, not furnished standard. For cylinder details see page 19.

ANSI Function

<table>
<thead>
<tr>
<th>Device Nos.</th>
<th>01 Exit Only (cover plate)</th>
<th>02 Dummy Trim</th>
<th>03 Key Retracts Latchbolt</th>
<th>05 Key Locks/Unlocks Thumbpiece</th>
<th>08 Key Locks/Unlocks Lever/Knob</th>
<th>14 No Cylinder Lever/Knob Always Active</th>
<th>15 No Cylinder Thumbpiece Always Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL2801</td>
<td>2801</td>
<td>2802</td>
<td>2803**</td>
<td>FL2805</td>
<td>FL2808</td>
<td>FL2814</td>
<td>FL2815</td>
</tr>
</tbody>
</table>

Trim Nos.

C1701  C1702A  C03  1705A  4908A  4914A
C1701A  C1703A  4903A  C1715A

Device with Trim:

Device No.

Add Prefix for options, see page 16.

Add Suffix: for options, see page 16.

Add Prefix: "V" Vandal Resistant Lever Trim
  "C" Concealed Vertical Rod – Pull Trim
  "R" Retrofit Trim

Add Suffix: Lever or Knob Design (A,B,C,D,K)
  Grip Design (A,B,C)

Add Suffix: "KNR" Knurled Lever or Grip

Device Only: Device no., hand, finish, strike, and door size including thickness:
  (e.g. TS2808CD x RHRB x 630 x 3'-0" x 7'-0" x 1-3/4")

Trim Only: Trim no., hand, finish, strike, and door size including thickness: (e.g. V4908A x RHRB x 626 x 1-3/4")
Removable Mullions

The Mullion is used to adapt a double door opening to two single door openings with Rim Exit Devices. When the full width of an opening is required, the mullion may be removed.

KEY REMOVABLE MULLION (KR) - Provides a secure yet quick & easy means of removing the 822 or FL822 Mullion. The mullion can be reinstalled and locked without the need of the key.

STOCK SIZE - For openings 8’-0” high. For openings less than 8’-0” high the mullion can be cut down. For openings greater than 8’-0” high using the 822, KR822 or 811 mullions, consult factory.

FINISHES - 600, 689, 695. For finish description see page 3.

822, FL822, KR822, FLKR822 Mullion

U.L. LISTED - FL822 and FLKR822 listed for Fire Exit Hardware. For FIRE LABEL RATING Chart see page 33.

MULLION - 2” x 3” Steel.

MULLION BASE - Investment Cast Steel, 2” wide 3-1/2” deep. Furnished with steel anchors for concrete floors.

INTERLOCK - Black Powder Coated Investment Cast Stainless Steel. Furnished standard for FL822 and FLKR822 Mullions. It interlocks the mullion to the Rim Active Case and S300 or S301 strike.

STABILIZERS - Black Powder Coated Steel. Stabilizers are furnished standard for FL822 and FLKR822 Mullions.

MULLION CAP SPACER - Minimum width 3-1/2”. For 2-1/4” frame spacer specify part No. MCS822. For use with 822 series mullion only (e.g. 822, FL822, HC822, HCKR822, KR822, FLKR822). MCS822 Kit or 822 mullion suffix option. See “To Order” example below.

822, FL822 MULLION CAP - MC822 Investment Cast Steel, 4” wide 3-5/8” deep.

KR822, FLKR822 KEY REMOVABLE MULLION CAP ASSEMBLY - Investment Cast Steel - can be ordered to convert existing 822 or FL822 mullions to Keyed Removable Mullions. Retrofits to the hole pattern of an MC822 Mullion Cap. To order specify: KMC822 or KMC822F.

CYLINDER - not furnished standard - Rim Type required. See page 19 for cylinder details.

HC822, HCKR822 Mullion

MULLION - 2” x 3” Steel Mullion is reinforced with a 1-1/2” x 2-1/2” 11 gage Steel Tube. MC822 or KMC822 Mullion Cap and MB822 Mullion Base Assemblies are used to secure the HC Mullion in the door opening. The S1447 Interlock must be used to Interlock the Active Case with the strike and is furnished standard with the HC822 Mullion.

To Order: Specify Mullion No. Height Finish (e.g. MCS822 x 8’-0” x 600)

811 Mullion

MULLION - 2” x 2” Steel Mullion.

MULLION CAP - Cast 4-1/2” wide x 2-5/16”, furnished with machine screws for metal frames.

MULLION BASE - Cast 2” wide x 2-3/4”, furnished with sheet metal screws and plastic anchors.

To Order: Specify Mullion No. Height Finish (e.g. 822 x 8’-0” x 600)
Cylinder Dogging
Available for all Apex Series Devices except Fire Exit Hardware and Delayed Egress Devices.

Cylinder Dogging provides the ability to lock down the touch bar with a key cylinder so the door can be used in the push/pull mode. To order, specify suffix “CD” (e.g. 2103CD). Requires the use of a 1-1/4” mortise cylinder, not furnished standard. Specify when required.

Less Dogging
Available for all Apex Series Devices except Fire Exit Hardware and Delayed Egress Devices.

Double Cylinder - Handed
(“10” Function)
The Double Cylinder option is available on the Wide Stile Rim and Mortise Exit Devices. The inside key cylinder locks or unlocks the outside Trim and the outside key cylinder retracts the latchbolt. Specify Outside Trim with “08” function.

When only the inside key cylinder is required to lock or unlock the outside trim and no outside cylinder operation is necessary, specify outside trim with “14” function.

Cylinders - Not furnished standard.
Rim Devices - Two rim type required.
Mortise Devices - One rim type and one 1-1/4” long mortise type required.

<table>
<thead>
<tr>
<th>Type</th>
<th>Device No.</th>
<th>Trim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rim</td>
<td>2110, FL2110 x 4908A, V4908A, 4914A</td>
<td></td>
</tr>
<tr>
<td>Mortise</td>
<td>2310, FL2310 x M4908A, VM4908A, M4914A</td>
<td></td>
</tr>
</tbody>
</table>

To Order: Specify Hand and Finish (e.g. 2110 4908A  RHRB 630)

Mortise Cylinder - 1E74-C4 x Finish

To convert from hex key dogging to cylinder dogging in the field, a cylinder dogging kit is available. The kit consists of a channel filler, blocking ring, cylinder locator and lock nut. Requires the use of a 1-1/4” mortise cylinder, not furnished standard. Specify when required.

Note: The channel fillers are different lengths for narrow and wide stile devices. “NCDK” - Narrow Cylinder Dogging Kit.

To Order: specify CDK-3, NCDK-3 for up to 3-0 and CDK4, NCDK-4 for devices up to 4-0.

Double Cylinder Kits - Handed
The kit is available to convert 2103, FL2103, 2303 and FL2303 devices to 2110, FL2110, 2310 and FL2310 in the field.

Rim Kit No. RDC10 - Includes locking assembly, cylinder assembly, cylinder collar and active case cover. Two rim type cylinders are required, not furnished standard.

Mortise Kit No. MDC10 - Includes M310 Mortise Lock, extension assembly, cylinder bracket, cylinder collar and active case cover. One rim type and one 1-1/4” long mortise type cylinder required, not furnished standard.

To Order: Specify Hand and Finish (e.g. RDC10  RHRB 630)
WINDSTORM AND HURRICANE CODE DEVICES

The Hurricane Devices have passed the structural tests as per South Florida Building Code Protocol. These tests are designed to provide sufficient resistance to high wind forces and wind-borne debris. The devices provide a high level of security for door openings even if hurricane rated door components are not required. A brief description of the test is provided below.

**Static Air Pressure Test** - Simulates wind loading by evenly distributing air pressure to the face of the door assembly in positive and negative directions. The door assembly must not have excessive deflection or deformation and must remain secure in the chamber.

**Missile Impact Test** - Simulates impacts created by wind driven debris by impacting the exterior face of the doors with a 2 x 4 board at 50 feet per second. The board must not pass through the doors and the doors must remain secure in the chamber.

**Cyclic Wind Pressure Test** - Simulates wind gusts by repeating cycles of positive and negative air pressure to determine that the integrity of the door assembly is not compromised with the Missile Impact Test. The door assembly must not have excessive deflection or deformation and must remain secure in the chamber.

**Component Approval** - These devices are approved as components to be used with any 16 gage Single or a Pair of Hollow Metal Doors and Frames holding a current Notice of Acceptance (NOA). The lowest Design Pressure Rating of the doors or components shall apply.

<table>
<thead>
<tr>
<th>SINGLE DOOR</th>
<th>Door Opening</th>
<th>Device Series</th>
<th>Design Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rim Device</td>
<td>4'-0&quot;W x 8'-0&quot;H</td>
<td>HC2100 &amp; HC2800</td>
<td>80 PSF</td>
</tr>
<tr>
<td>Surface Vertical Rod Device</td>
<td>4'-0&quot;W x 8'-0&quot;H</td>
<td>HC2200 &amp; HC2800</td>
<td>80 PSF</td>
</tr>
<tr>
<td>Mortise Device</td>
<td>4'-0&quot;W x 8'-0&quot;H</td>
<td>HC2300 &amp; HC2800</td>
<td>60 PSF</td>
</tr>
<tr>
<td>Concealed Vertical Rod Device</td>
<td>4'-0&quot;W x 8'-0&quot;H</td>
<td>HC2800 &amp; HC2800</td>
<td>80 PSF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAIR OF DOORS</th>
<th>Device Series</th>
<th>Design Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Rim Devices with Mullion</td>
<td>8'-0&quot;W x 8'-0&quot;H</td>
<td>HC2100 x HC2822, KRHC822</td>
</tr>
<tr>
<td>Two Surface Vertical Rod Device</td>
<td>8'-0&quot;W x 8'-0&quot;H</td>
<td>HC2200 x HC2200</td>
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<tr>
<td>Mortise Device x Concealed Vertical Rod Device</td>
<td>8'-0&quot;W x 8'-0&quot;H</td>
<td>HC2300 x HC2800</td>
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</table>

**ANSI Function**

<table>
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<tr>
<th>Function</th>
<th>Device No.</th>
<th>Trim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 Exit Only (cover plate)</td>
<td>HC2101, FLHC2101</td>
<td>1701</td>
</tr>
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<td></td>
<td>HC2201, FLHC2201</td>
<td>2001</td>
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<td>HC2301, FLHC2301</td>
<td>4901</td>
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<td>02 Dummy Trim</td>
<td>HC2102</td>
<td>1702A</td>
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<td>HC2202</td>
<td>2002C</td>
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<tr>
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<td>HC2302</td>
<td>4902A</td>
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<td>03 Key Retracts Latchbolt</td>
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<td>05 Key Locks / Unlocks Lever / Knob</td>
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<td>08 Key Locks / Unlocks Lever / Knob</td>
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<td>HC2208, FLHC2208</td>
<td>V4908A</td>
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<td>HC2308, FLHC2308</td>
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<td></td>
<td>HC2808, FLHC2808</td>
<td>VM4908A</td>
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<td>10 Double Cylinder Inside Key Locks / Unlocks Lever / Knob</td>
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<td>4910A</td>
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<td>HC2110, FLHC2310</td>
<td>V4910A</td>
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<td>HC2310, FLHC2310</td>
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<td>4914A</td>
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<td>HC2214, FLHC2214</td>
<td>M4914A</td>
</tr>
<tr>
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<td>HC2314, FLHC2314</td>
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<td>HC2315, FLHC2315</td>
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<td>HC2815, FLHC2815</td>
<td>M2015C</td>
</tr>
</tbody>
</table>

- Trims with the Prefix “M” are for 2300 Series Devices only.
- 2000 Series Trim not available with 2800 Series Device.
- "10" Function is handed.

**Device Specifications and Options**

- Rim Exit Devices and Trims
- Surface Vertical Rod Devices and Trims
- Mortise Devices and Trims
- Concealed Vertical Rod Devices and Trims
- HC822 & HCR822 Mullions

Compliance - HC2100, HC2200, HC2300, HC2800 Series Devices and HC822, KRHC822 Mullions comply with the Florida Building Code including the High Velocity Hurricane Zone. The Miami-Dade County Product Control Division has approved these devices to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ). Product Control NOA No. 09-0218.09 is issued for these devices which expires on September 30, 2014.

To see the NOA documentation online: http://www.miamidade.gov/buildingcode/pacesearch_app.asp and type in the NOA number: 05-1102.12 under the Product Search Application link.
The ELR option provides remote Latch Retraction of exit devices. Continuous duty solenoids retract the Latchbolt(s) for momentary unlatching or continuously for dogging. The ELR feature can be interfaced with automatic door operators, card readers, push buttons, toggle/key switches, and fire alarm systems.

- ELR option REQUIRES ELR150 Series Power Supply.
- UL Listed for Panic and Fire for Class II Circuitry
- ELR can be used in combination with all Apex options including Hex Key or Cylinder Dogging. ELR option is not available for (DE) Delayed Egress Devices.

**Specifications**
- UL Listed for Class II Output.
- UL 294 - Conforms to U.L. 294 Standards incorporating enhanced Access Control communication capabilities.
- Circuit breakers provide protection for Motherboard
- 115 or 230 Volt user selectable switch.
- A.C. Input = 115 Volts at 1 Amp.
- Battery Back-up / Power Tap available (see page 22).
- LED Indicator - Provides clear indication that power is available to the supply.
- Keyed Cabinet - To maintain safety and security, each Power Supply is equipped with a preinstalled key-cylinder.
- Includes lockable box with key lock.
- Dimensions: 16” W x 14” H x 6” D.
- Weight: 15 lbs.

**ELR Conversion Kit**
A standard device can be retrofit to the Electric Latch Retraction option by ordering the kits listed below. A ELR Conversion Kit REQUIRES a ELR150 Series Power Supply.

**To Order:**
- **Wide Stile Devices**
  - 3-0: ELRK-3, ELRKF-3
  - 4-0: ELRK-4, ELRKF-4
- **Narrow Stile Devices**
  - 3-0: NELRK-3, NELRKF-3
  - 4-0: NELRK-4, NELRKF-4

Note: Power may be supplied through a 4-wire continuous circuit hinge (furnished by others).

**Solenoid Specifications**
- Current Pulse (2 seconds max.) ......................... 4.75 Amp.
- Continuous .................................................. 3.6 VDC / 0.8 Amp.

**To Order: ELR150 Power Supply** – The model number is determined based on the number of devices requiring electrical power.

- ELR150 - Power Supply, no control modules
- ELR151 - Power Supply including (1) control module to control (1) exit device
- ELR152 - Power Supply including (2) control modules to control (2) exit devices
- ELR153 - Power Supply including (3) control modules to control (3) exit devices
- ELR154 - Power Supply including (4) control modules to control (4) exit devices

To order power supply with Battery Backup specify suffix BT (e.g. ELR151BT)
ELR POWER SUPPLY ACCESSORIES

Control Module

The CM150-08 Control Module is a card that is installed in the ELR150 Series Power Supply and controls one ELR device and includes a Time Delay Feature. The Time Delay provides a variable Latch Retraction period in response to a momentary input.

Specifications

Input

Switch Input
• Normally open

Voltage Input
• Input Voltage: 5-24VDC or VAC
• Input Current: approx. 0.005 Amp.
• Minimum pulse width: 0.25 seconds

Output
• Current Pulse: 4.75 Amp. (2 seconds max.)
• Continuous: 3.6 VDC / 0.8 Amp.

Time Delay
• User selectable: 0-4 minutes delay after input is removed

Fire Alarm Terminal
• Red LED (D3) blinks when Fire Alarm interrupts circuit
• Provides immediate termination of output

Switch Input:
• Accepts normally closed contacts or 5-24 Volts from a listed fire detecting device.

Voltage Input:
• Input Current: 0.005 Amp.
• Minimum pulse width: 0.25 seconds

Auxiliary Contacts
• Relay isolated contacts provided for remote signaling (e.g. door operator)
• Normally open or normally closed contacts are rated at 0.5 Amp., 24VDC or VAC
• Contact operation follows successful operation of the ELR device.

To Order: specify CM150-08

Battery Backup

Power Tap

The BT150-07 Battery Backup is an optional card that can be installed in the ELR150 Series Power Supply to provide temporary power to ELR Devices in case of power shortage or outages. Uses (2) 12VDC Lead Acid batteries (furnished by others). One Amp hour set of batteries provides approximately 15 minutes of backup to four exit devices. 24V Power tap is also included to provide power to Card Readers, etc.

Electrical Ratings – 24 VDC, 0.8 Amp. - Power Tap
To Order: specify BT150-07
Simultaneous Pair of Doors

Pressing the push button retracts the latches on each exit device. When both exit devices have retracted latches, the control modules in the power supply signals the door operators to open the doors. The doors will remain open until released by the Time Delay feature on the Control Module.

Two Independent Pairs of Doors

Each pair of doors are operated by pressing a push button which retracts latch(es) on each exit device. When both exit devices have retracted latches the control modules in the power supply signal the door operators (such as the Precision D-4990 Low Energy Operator) to open the doors. The doors will remain open until released by the Time Delay feature on the Control Module.

Notes:

1. Push Button may be replaced with Card Reader, keypad, etc., providing normally open contacts and/or voltage inputs. See hookup instructions in the ELR150 Installation Instructions.
2. Activation for Door Operators are provided by dry contact on the Control Module. (2) wires must be run from the Power Supply to each operator requiring control.
3. Each exit device requires (4) wires to operate. See chart to the right for proper gage and wire run.
4. When Battery Backup is used, (2) 12 gage wires, less than 3 feet long, connect batteries to Backup. Batteries must be mounted outside the power supply enclosure. Battery Backup has a Power Tap feature that can provide power to a Card Reader, keypad system, etc. See page 22 for details.

<table>
<thead>
<tr>
<th>Wire Gage</th>
<th>Maximum Wire Run for 22 Gage Power Transfer</th>
<th>Maximum Wire Run for 28 Gage Power Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>75’ - 0”</td>
<td>55’ - 0”</td>
</tr>
<tr>
<td>14</td>
<td>125’ - 0”</td>
<td>75’ - 0”</td>
</tr>
<tr>
<td>12</td>
<td>200’ - 0”</td>
<td>---</td>
</tr>
</tbody>
</table>
**FEATURES**

**FIRE ALARM CONTACTS** – Fire Alarm input at any time will cut power to the delayed egress function and provide immediate egress.

**ARMED-MOMENTARY EGRESS** – Turning the key clockwise allows authorized personnel to exit without alarming. At the end of the field selectable time period (10, 20 or 30 seconds), the device will relock and rearm.

**DE-DEVICE NETWORKING FEATURE** – This feature allows a delayed Egress device to arm, alarm, reset and disarm all devices on the same circuit. Each device will continue to operate independently for Momentary Egress.

**30 SECOND DELAY** – A 30 second delay option is available. A written approval from the authority having jurisdiction is required. Note: A “30 Second” decal is provided when the 30 Second Delay option is specified.

**NUISANCE DELAY TIME** – A Nuisance Delay Time helps avoid inadvertent activation. The alarm will sound when the touchbar is pressed, but the alarm sequence will not start unless the touchbar is held in for more than the Nuisance Delay Time. Delay Time is field selectable for 0, 1, 2 or 3 seconds.

**INTEGRAL KEY SWITCH**

**Arm** – The Key switch provides the means to locally arm the (DE) device.

**Momentary Egress** – The Key switch will provide temporary disarming to allow for momentary egress (10, 20 or 30 seconds) when the device is in the armed state. The Key switch will Disarm the device and it will function as a standard exit device.

**Reset** – During alarm sequence the device can be rearmed by the Key Switch.

Requires the use of a 1-1/4 mortise cylinder, not furnished standard. Specify when required.

**LED STATUS INDICATOR** (in the device) – A color coded LED indicates Arm, Disarm and Alarm status.

- **Flashing Green** – Arming
- **Flashing Red** – Armed
- **Green** – Unarmed
- **Red** – Alarmed
- **Off** – No Power to Device (Normal Exit)

**INTERNAL ALARM** – The device has a 85 db horn which will sound until the device is reset.

**EXTERNAL ALARM** – A set of relay contacts rated at (1 amp, 24VDC) are provided for activating external local or remote audible/visual signaling devices.

**EXTERNAL INHIBIT**

**Arm/Rearm** – Accepts a contact to Arm/Rearm the device.

**Momentary Egress** – Accepts a contact to provide temporary disarming to allow for momentary egress when the device is in the armed state. The Momentary Egress will be engaged as long as the switch closure is maintained.

**Reset** – Accepts a contact to reset the device during alarm.

**OPERATION** – The device secures the door in the locked mode with the Red LED indicating locked status. Depressing the Touchbar by accident or for less than the Nuisance Delay Time will sound the alarm without initiating the alarm sequence. Depressing the Touchbar with less than 15 pounds pressure, for longer than the Nuisance Delay Time will initiate an irreversible local audible beeping tone and a visual Red indicator until the device releases. After the delay egress time the lock releases and the alarm changes to a steady tone which continues to alarm until Reset. The remote monitoring contact output can be used to alert security personnel. The person depressing the Touchbar is denied egress (for 15 or 30 seconds) and security personnel are alerted for quick response.

**TRIM** – All standard device trims and functions are available, including “03” function, Trim Lock/Unlock will function normally even when the delayed egress feature is armed. The Device will only be affected when the Touchbar is depressed from the inside. All (DE) Rim and Mortise Devices are also available with Electric Lock/Unlock for the outside Trim. For details see page 28.

Available for all Apex Series Exit Devices.

The Delayed Egress Devices are manufactured and tested to exceed ANSI 156.3 and 156.24. Devices are UL Listed as a Controlled Exit Device (FULA) and Special Locking Arrangements (FWAX) category. Meets all requirements of NFPA 101.

Delayed Egress continued on page 25
The PS161-6 Power Supply is designed as a power source for a variety of applications including Electric Locking, Exit Alarm and Delayed Egress Exit Devices.

The Power Supply is a 120V input with a 12 or 24V output rated at 6A. It can control up to 4 delayed egress exit devices. **Note:** Adding additional loads to the PS161-6 Power Supply (i.e., Card readers, Horns, etc.) may reduce the quantity of Delay Egress Exit Devices controlled by the power supply.

**SPECIFICATIONS**

**Input**
- Voltage: 120V AC, 60HZ
- Current: 3.5A AC
- Input fuse ratings: 5A/250V
- AC input is protected via an automatic reset circuit breaker
- Battery fuse ratings: 7.5A/32V

**Output**
- Voltage: 12 or 24V
- Total output: 6 amps
- Power limit/output: 2 amps/per channel
- Outputs: 8 (For Delayed Egress applications: use only 4)
- Ripple voltage: 910mV (Filtered and regulated outputs)
- Protection: Thermal and short circuit protection with auto reset overload protection.

**Battery Backup Charger**
- Built-in charger for sealed lead acid or gel type batteries (batteries not included)
- Maximum charge current: 1.54A
- Automatic switch over to stand-by is instantaneous with no interruption

**Additional Features**
- Short circuit and overload protection.
- Supervised Fire Alarm disconnect (latching or non-latching) on a normally open (NO) or normally closed (NC) trigger.

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**DELAYED EGRESS FEATURES:** (Continued)

**DOOR POSITION SWITCH** – used in conjunction with the Delayed Egress Exit Device, the following security features are added: The Exit Device Alarm will sound if the door is not closed when the device is armed. The Alarm will sound if the door is forced open when the device is armed. While the device is in the arming stage you may exit the opening. When the door closes the arm/ream time is cut short and the device is armed preventing unauthorized tailgating through the opening.

The (DE) devices are furnished with a decal which states:

| Push until alarm sounds. |
| Door can be opened in 15 seconds. |

**Note:** A “30 Second” decal is provided when the 30 Second Delay option is specified.

**DE ELECTRICAL SPECIFICATIONS**

- **Voltage:** 24VDC
- **Current Disarmed:** 100 mAmps
- **Current Armed:** 3.2 Amps for 200 ms, 200 mAmps steady state

**DOOR WIDTHS** Available for 3'-0" and 4'-0" openings. For openings 3'-1" and greater, please specify door width requirements.

**Note:** Not available for openings less than 3'-0"

**To Order:** specify prefix “DE” (e.g. DEFL2108)
ACCESS COVER FEATURE -
The Mode Select Switch panel can be accessed through a hinge stile cover for ease of installation and maintenance without removing the device or Endcap Mounting Bracket. The access cover is secured in place by the device Endcap, which is attached with Security Screws.

MODE SELECT SWITCHES -
The following Mode Select Switch panel (see left) provides field selectable settings to suit the various Delayed Egress applications.

SINGLE DOOR - This application allows for remote Arm/Disarm and remote monitoring of the Delayed Egress. The Exit device will delay egress when armed and will be a normal exit device when disarmed. The DS880 (DS) Door Position Switch (page 29) prohibits the door from being held or forced open while the device is armed. The 24 VDC, remote switch, remote horn and the DS are routed through the power transfer and the fire alarm is wired to the power supply.

DOUBLE DOOR - This application allows for remote Arm/Disarm and remote monitoring of the Delayed Egress. The Exit device will delay egress when armed and will be a normal exit device when disarmed. The DS880 (DS) Door Position Switch (page 29) prohibits the door from being held or forced open while the device is armed. When one device is alarmed the other device will also go into alarm. The 24 VDC, remote switch, remote horn and the DS are routed through the power transfer and the fire alarm is wired to the power supply.
Exit Alarm

Available for all Apex Series Devices

**ALK** - Battery Operated, provided with a 9 Volt battery and has a audible low battery indicator. Specify WH495 Wire Harness for Remote Arm/Disarm or alternate Input Activation options.

**ALW** - Remote Powered 12 to 24 VDC at 0.25 Amp., a (2) wire power transfer is required, not furnished standard. Specify WH495 Wire Harness for External Wire features:
- External Arm/Disarm (On/Off)
- External Activation (to sound Alarm)

The Exit Alarm provides a simple way to audibly monitor the use of an exit device. The unit contains a Piezo Alarm which will sound when the touchbar is depressed. Alarm sounds at 80db at 10 feet.

It is also equipped with an LED indicator. The LED flashes GREEN for 20 seconds when the unit is arming and flashes RED every 20 seconds when the alarm is armed.

Note: Latch Bolt Monitoring (LS) or Door Position Switch (DS) is recommended when using Alarm option with 2200 Series Surface Vertical Rod devices.

**CYLINDER**

The Exit Alarm requires a standard 1-1/4 Mortise Cylinder (for cylinder details see page 19) which is used as a key switch to perform the following functions:
- To turn on (Arm) - it will allow 20 seconds to exit before alarm sounds.
- Silence and reset the alarm after unauthorized egress.
- To turn off (Disarm) the alarm for continuous unmonitored egress.
- Engage mechanical Dogging for Non-Fire Rated Devices.

**WIRING HARNESS - WH495**

Can be wired for one or both of the options listed below.
- Exit Alarm can be turned on (Armed) with alternate inputs. For other than our DS880 or NDS986 Door Position Switch a (2) wire power transfer hinge is required (furnished by others).
- Exit alarm can be turned on (Armed) or off (Disarmed) from a remote location. A Cylinder or Dummy Cylinder (by others) is required. Cylinders are not furnished standard. Specify when required (for cylinder details see page 19). A (2) wire power transfer is required, not furnished standard.

**To Order:** specify WH495

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**Weatherized Exit Alarm**

Available for all Apex Series Devices. The Weatherized Exit Alarm is identical in operation to the standard Exit Alarm but incorporates a weatherized design for use on a variety of applications where contact with the elements may occur.

**WALW - Remote Powered** 12 to 24 VDC at 0.25 Amp., a (2) wire power transfer is required, not furnished standard. Specify WH495 Wire Harness for Remote Arm/Disarm or alternate Input Activation options.

Weather resistant loss prevention hardware designed for use in outdoor or wet environments
- Meets the requirements of MIL-STD 810F, Method 506.4, Driving Rain Test (simulating 4 in./hr. rain with 40 mph wind)
- Meets the requirements of MIL-STD 810F, Method 509.4, Salt Fog test (simulating effects of corrosive environments similar to atmospheric conditions found in coastal regions)

**To Order:**
Device with Weatherized Exit Alarm - add suffix “WALW” to Device No. (e.g. 2108WALW)

---

**Exit Alarm Kit**

Available for all Apex Devices from 3-0 to 4-0 wide doors. Furnished with Touchbar decal which states:

```
!! EMERGENCY EXIT ONLY !!
PUSH TO OPEN ALARM WILL SOUND
```

The Exit Alarm is available in Kits for Retrofit on existing devices. The channel fillers are different lengths for Narrow and Wide Stile devices. "N" denotes Narrow Stile devices.

**To Order:**
Device with Alarm - add suffix “ALK”, “ALW” (e.g. 2108ALK)

**Alarm Kits**

**Wide Stile Devices**
- 2-6 & 3-0 ALK-3, ALW-3
- 4-0 ALK-4, ALW-4

**Narrow Stile Devices**
- 3-0 NALK-3, NALW-3
- 4-0 NALK-4, NALW-4

- WH495 Wiring Harness - Required for External Arming/Disarming the Alarm and External Activation to sound the Alarm.
- Kits are available in finishes 605, 606, 612, 613, 625, 628, 630. For finish description see page 3.
- To order specify Kit No. and finish (e.g. ALK-3 626).

Note: The Exit Alarm is NOT required when ordering the (DE) Delayed Egress option.

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Note: For Battery operated kits a 9 Volt battery is included.
ELECTRIC DEVICES

E2103, E2203, E2703 and E2803 Electric Device

Available for 2100, 2200, 2700 and 2800 Series Devices. The Electric Device controls entry by remote locking or unlocking of the outside trim. In addition to a 24 VDC solenoid, the exit device is also equipped with a SPDT - single pole double throw switch. The switch monitors the outside trim (locked or unlocked).

The device is furnished standard as Fail Secure (FSE). When power is off the trim is locked. Power is applied to unlock the trim. May be field converted to Fail Safe (FS) mode. Specify (FS) or (FSE) mode when ordering. Specify outside Trim with “08” function. The outside key cylinder retracts the latchbolt for mechanical override. If outside cylinder (mechanical override) is not required, specify outside trim with “14” function.

E2103K Electric Rim Device Kit

To convert 2103, FL2103 devices to E2103, FLE2103 devices in the field. The Kit includes Trim locking assembly and Electric “E” locking assembly.

Note: The exit device can be used as a conduit for wiring to the hinge side of the door.

Electrical Ratings
Switch rated to 2 Amps at 24VDC SPDT
Solenoid current draw: 0.3 Amps.

To Order:
Device: specify prefix “E” (e.g. E2103  FSE  4908A)
Rim Device Kit: specify Kit No. (e.g. E2103K  FSE)

Note: “E” locked/unlocked requires “08” or “14” function for outside lever trim.

E2303 Electric Mortise Device

The Electric Mortise Device controls entry by remote locking or unlocking of the outside trim. In addition to a 24 VDC solenoid, the mortise lock is also equipped with a SPDT - single pole double throw switch. The switch monitors the outside trim (locked or unlocked).

The device is furnished standard as Fail Secure (FSE). When power is off the trim is locked. Power is applied to unlock the trim. May be field converted to Fail Safe (FS) mode. Specify (FS) or (FSE) mode when ordering. Specify outside Trim with “08” function. The outside key cylinder retracts the latchbolt for mechanical override. If outside cylinder (mechanical override) is not required, specify outside trim with “14” function.

Field Conversion
To convert 2303, FL2303 devices to E2303, FLE2303 devices in the field a Electric Mortise Lock is required. Specify EM303, EM303F, LSEM303 or LSEM303F (see below for Electric Mortise Locks).

Electrical Ratings
Switch rated to 2 Amps at 24VDC SPDT
Solenoid current draw: 0.2 Amps.

To Order:
Device: specify prefix “E” (e.g. E2303  FSE  M4908A)

Note: “E” locked/unlocked requires “08” or “14” function for outside lever trim.

Electric Mortise Lock - Handed

The Mortise lock is available with the following electrical options:

MODEL NO.
- LSM303, LSM303F
- LSM308, LSM308F
- EM303, EM303F
- LSEM303, LSEM303F

DESCRIPTION
- latchbolt monitoring, “03” Function
- latchbolt and trim locked or unlocked monitoring, “08” Function
- electric lock/unlock with switch to monitor the outside trim (locked or unlocked)
- electric lock/unlock with switches to monitor the outside trim (locked or unlocked) and to monitor the latchbolt.

Electrical Ratings
Switch rated to 2 Amps at 24VDC SPDT
Solenoid current draw: 0.2 Amps.

Mortise Lock is furnished standard as Fail Secure (FSE). When power is off the trim is locked. Power is applied to unlock the trim. May be field converted to Fail Safe (FS) mode.

(FS) - power is applied to lock the trim.

To Order: Specify EM303 x (FSE) or (FS) x handing x finish (e.g. EM303  FSE  RHRB 630).
**Touchbar Monitoring**

Available for all Apex Series Devices. The Touchbar Monitoring Switch is an internally mounted switch that is used to signal electromagnetic locks, horns, monitoring stations or other electronic components.

- UL Listed for Panic and Fire for Class II Circuitry.
- TS and TDS can be used in combination with all Apex options including ELR Devices.

**TS** (SPDT - Single Pole, Double Throw) version allows for interface with one external component. A (2) wire power transfer is required, not furnished standard.

**TDS** (DPDT - Double Pole, Double Throw) version allows for interface with two external components. A (4) wire power transfer is required, not furnished standard.

**To Order:** specify prefix TS or TDS (e.g. TS2108)

**Touchbar Monitoring Conversion Kit**

TS and TDS options are available as kits, specify TSK309 for Single Switch Monitoring or TDSK310 for Double Switch Monitoring.

**Electrical Ratings**

<table>
<thead>
<tr>
<th>Switch</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS:</td>
<td>Switch rated to 2 Amps at 24VDC SPDT</td>
</tr>
<tr>
<td>TDS:</td>
<td>Switch rated to 2 Amps at 24VDC DPDT</td>
</tr>
</tbody>
</table>

**Weatherized Touchbar Monitoring**

Available for all Apex Series Devices. Weatherized Touchbar Switch WTS/WTDS is designed for use on a variety of exit device applications where contact with the elements may occur. Provided with the same specifications as the standard Touchbar monitoring.

- Meets the requirements of MIL-STD 810F, Method 506.4, Driving Rain Test (simulating 4 in./hr. rain with 40 mph wind)
- Meets the requirements of MIL-STD 810F, Method 509.4, Salt Fog test (simulating effects of corrosive environments similar to atmospheric conditions found in coastal regions)

**To Order:** specify prefix WTS or WTDS (e.g. WTS2108)

**Latchbolt Monitoring**

Available for Wide Stile Rim, Mortise and Vertical Rod Devices. The Latchbolt Monitoring Switch is an internally mounted switch that monitors the position of the latchbolt. Mortise LS option monitors auxiliary position. The switch can be used to signal a monitoring station or an alarm such as a Precision ALK/ALW Exit Alarm. For the security of the opening a Door Position Monitoring Switch is recommended.

- UL Listed for Panic and Fire for Class II Circuitry.
- LS and LDS can be used in combination with all Apex options including ELR Devices.

**LS** (SPDT - Single Pole, Double Throw) version allows for interface with one external component. A (2) wire power transfer is required, not furnished standard.

**LDS** (DPDT - Double Pole, Double Throw) version allows for interface with two external components. A (4) wire power transfer is required, not furnished standard.

**To Order:** specify prefix LS or LDS (e.g. LS2108)

**Latchbolt Monitoring Conversion Kit**

LS or LDS option is available as a kit for Wide Stile Devices, specify LSRK298 or LDSRK299 for Rim Devices or LSVK910 for Vertical Rod Devices. For Mortise Devices see Electric Mortise Lock, page 28.

**Electrical Ratings**

<table>
<thead>
<tr>
<th>Switch</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS:</td>
<td>Switch rated to 2 Amps at 24VDC SPDT</td>
</tr>
<tr>
<td>LDS:</td>
<td>Switch rated to 2 Amps at 24VDC DPDT</td>
</tr>
</tbody>
</table>

**Door Position Monitoring Switch**

A Magnetic Reed type switch used to monitor the position of a door from a remote location. It is mounted in the Touchbar Endcap and Door Frame.

**Electrical Ratings** 1.5 Amps at 24VDC SPDT

**To Order:** Wide Stile: specify DS880 and finish. Narrow Stile: specify NDS986 and finish.

**Note:** The recommended gap between the magnet and the door position switch when installed is 1/16” - 1/8”. Please consider the distance between the exit device end cap and the frame. Depending on your application, the strike, and the template used, the switch and magnet can be adjusted and may extend from the device and/or frame. Please consult the factory for installation consideration.
WIRELESS ACCESS MANAGEMENT SYSTEM

Wireless Activation
The EXQ trim is part of the STANLEY® Wi-Q™ Technology Wireless Access Management System.

Wireless Access Management System includes:
A) – Precision Q2000 exit device
B) – BEST® EXQ trim
C) – WQX–PG portal gateway
D) – STANLEY® Wi-Q™ Technology Software
Note: Items ordered separately.

System Features
• Programmable time selections for desired wireless Lock/Unlock activation
• 65,000 user storage capacity
• Visual LED Indicators
• Redundant storage, up to 99,000 events
• Provides online alarm monitoring capabilities
• Battery powered by ‘AA’ battery pack
• Access decisions made at the door
• Remote reader diagnostics right from the PC

A) Precision Q2000 Exit Device
The Precision Q2000 exit device is equipped with the Touchbar Monitor Switch and Latchbolt Monitor Switch features. The integrated Q2000 exit device monitoring switches provide immediate feedback through connectivity with the EXQ trim software to facility security. The Q-option is available for use with Apex wide style, Rim and Vertical Rod exit devices.
Note: Wires routed through active case for EXQ Trim connection.
Note: Q option not available for 2300 series.

Q-Option Retrofit Kits
For existing Apex 2000 Series wide style rim and vertical rod exit devices without the Q-option, retrofit kits are available.

Q-Retrofit Kit includes:
Switch Assemblies, Mounting Hardware and Installation Instructions.

Electrical Ratings – Q-switches rated to 2 Amps at 24VDC SPDT.

To Order:
Q-Option – Specify prefix Q (ex.Q2103)
Q-Retrofit kit
QSRK5267 – 2103 Rim
QSVK5268 – 2203, 2703 Vertical Rod

Wireless Access Management System continued on pages 31 and 32.
B) BEST® EXQ Trim

The BEST® EXQ Trim provides battery powered online lock/unlock capability for applications utilizing exit device hardware. Used in conjunction with the STANLEY® WQX–PG Portal Gateway and Software, the EXQ trim can receive a wireless command for Lock/Unlock activation. In doing so, the respective facility has immediate efficient pull-side access control for openings that utilize exit device hardware. The EXQ comes standard with a (DS) Door Position Switch. In addition, the trim is equipped with lead wires to integrate the Q2000 Touchbar and Latchbolt Monitoring switches.

The BEST EXQ trim is offered with four different activation styles to choose from. These four types are listed below.

1. **MS** – Magnetic Stripe
2. **DV** – Dual Validation (Magnetic Stripe + Keypad)
3. **PH** – HID Proximity
4. **PM** – Indala Proximity

### EXQ Trim Features
- Handing (Field reversible)

### EXQ Trim Specifications
- **Materials** – Internal parts are brass, zinc, or corrosion treated steel.
- **Escutcheons** – 11.7”H x 3.4”W x 1.2”D.
- **Door thickness** – Standard lock configuration designed for doors 1 3/4” (44mm) – 2 1/4” (57mm) thick.
- **Lever handle** – Brass, bronze, or stainless steel base material. Lever styles 14 and 15 return to a minimum of 1/8” (12mm) of door surface.
- **Finishes** –
  - 606 – satin brass, clear coated,
  - 613* – oxidized satin bronze, oil rubbed,
  - 626 – satin chromium plated (brass base material),
  - 690** – dark bronze coated (brass base material)

* 613 finish is designed to wear over time, providing an "antique" appearance.
** 690 finish will continue as a dark brown appearance over time.

### EXQ Trim Exit Device Compatibility
- **Apex 2000 Series Wide Style Exit Devices:**
  - Rim device – 2103
  - Surface vertical rod – 2203
  - Concealed vertical rod – 2703
  - Mortise – 2303

  **Note**: includes key-override

### EXQ Trim Reader Styles

**EXQ – Function**

<table>
<thead>
<tr>
<th>With key override</th>
<th>Latchbolt operated by:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Outside key</td>
</tr>
<tr>
<td></td>
<td>• Outside lever-unless locked by internal motor drive mechanism</td>
</tr>
<tr>
<td></td>
<td>• Touchbar</td>
</tr>
</tbody>
</table>

**Outside lever locked by:**

- Internal motor drive mechanism operated by time-activated electronic signal

**Outside lever unlocked by:**

- Internal motor drive mechanism operated by time-activated electronic signal or by valid card/PIN

**Inside hardware is always unlocked**

For more information on other trims or trim readers refer to: BEST® EZ series, NT500, B.A.S.I.S. G, B.A.S.I.S. V, and Wireless Access Management catalogs.
C) WQX–PG portal gateway

The portal gateway provides a remote integrated solution to STANLEY’s® Wi-Q™ Wireless Access Management System. In doing so, all of the crucial components are linked in a secure wireless format providing efficient communication. The following is a list of the Portal Gateway features. For information on how to order, please refer to STANLEY Wireless Access Management catalog.

Wireless Portal Gateway Features
- Communicates at 2.4GHz spread spectrum to wireless readers or wireless access controllers
- Uses 802.15.4 protocol with clear channels above 802.11 to allow Wi-Fi inter-operability
- 10/100 Base-T bit Ethernet
- Provides redundant communication (locks attach to the strongest signal)
- Non-dedicated portal can communicate with 1 to 128 readers (Does not imply that 128 readers/locks will be within distance of RF range to connect. Total number of portal gateways required is based on individual system survey and requirements.)
- Ceiling mounted omnidirectional antenna included standard when WQX-PG-C is ordered
- Does not require typical controller hardwiring. Simply plug the Portal Gateway into an existing TCP/IP network and provide local power

D) STANLEY® Wi-Q™ Technology Software

The wireless access management software incorporates the functional intelligence for the entire application solution. The net result is a coordinated system with software intelligence found at the control station and remotely as well. Facility personnel can benefit from utilizing the advantages of an integrated software solution found in all aspects of the security and monitoring hardware. For more information or how to order, please refer to STANLEY’s Wireless Access Management catalog.

Wireless Access Management System continued on pages 30 & 31

EPT-5
- EPT-5 Power Transfer with stainless steel housing and flexible tube. Secure and inconspicuous channel to bring power from the frame to the door. Narrow, shallow channel easily mortises into frame edges. Accepts up to 5/16" diameter wire bundle. Accommodates doors that swing open 120 degrees. Unit is concealed when the door is closed. Suitable for wood, aluminum or steel application
  - Bright Chrome.
  - Holds up to (10) 22 gauge Teflon coated wires.

To Order: specify EPT-5.

EPT-12C
- The EPT-12C provides a pre-installed twelve wire harness for transfer of electric power in a discrete and effective manner. The harness is equipped with 10 wires @ 24 gauge and 2 @ 18 gauge.
  - Non-Handed
  - Accommodates 180 degree swing
  - UL Listed, UL10C
  - Stainless Steel Housing & Spring Conduit
  - 12 Wire Termination
  - Pre-Installed Quick Connect Plugs

To Order: specify EPT-12C.

EPT-2
- Armored flex conduit. Accepts up to 1/4 diameter wire bundle. Eighteen inches long.

To Order: specify EPT-2.
### Fire Label Rating

#### Single Door

<table>
<thead>
<tr>
<th>Type and Application</th>
<th>Door Opening</th>
<th>Exit Device Series</th>
<th>UL Fire Door Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rim Device</td>
<td>4'-0&quot;W x 10'-0&quot;H</td>
<td>FL2100, FL21</td>
<td>* * * * * *</td>
</tr>
<tr>
<td>Narrow Rim Devices</td>
<td>4'-0&quot;W x 10'-0&quot;H</td>
<td>FL2400</td>
<td>* * * * * *</td>
</tr>
<tr>
<td>Mortise Device</td>
<td>4'-0&quot;W x 10'-0&quot;H</td>
<td>FL2300</td>
<td>* * * * * *</td>
</tr>
</tbody>
</table>

#### Pair of Doors

<table>
<thead>
<tr>
<th>Type and Application</th>
<th>Door Opening</th>
<th>Exit Device Series</th>
<th>UL Fire Door Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Rim Devices with Mullion</td>
<td>8'-0&quot;W x 8'-0&quot;H</td>
<td>FL2100, FL21 x FL822, FLKR822</td>
<td>* * * * * *</td>
</tr>
<tr>
<td>Two Narrow Rim Devices with Mullion</td>
<td>8'-0&quot;W x 8'-0&quot;H</td>
<td>FL2400 x FL822, FLKR822</td>
<td>* * * * * *</td>
</tr>
<tr>
<td>Two Surface Vertical Rod Devices Swinging in the Same or Opposite Direction</td>
<td>8'-0&quot;W x 10'-0&quot;H</td>
<td>FL2200, FL2200LBR, FL22, FL22LBR</td>
<td>* * * * * *</td>
</tr>
<tr>
<td>Mortise Lock Device x Surface Vertical Rod Device</td>
<td>8'-0&quot;W x 10'-0&quot;H</td>
<td>FL2300 x FL2200, FL2200LBR, FL22, FL22LBR</td>
<td>* * * * * *</td>
</tr>
<tr>
<td>Mortise Lock Device x Concealed Vertical Rod Device</td>
<td>8'-0&quot;W x 10'-0&quot;H</td>
<td>FL2300 x FL2800, FL2800LBR</td>
<td>* * * * * *</td>
</tr>
<tr>
<td>Two Narrow Concealed Vertical Rod Devices Swinging in the Same or Opposite Direction</td>
<td>8'-0&quot;W x 10'-0&quot;H</td>
<td>FL2600, FL2600LBR</td>
<td>* * * * * *</td>
</tr>
<tr>
<td>Two Concealed Vertical Rod Devices Swinging in the Same or Opposite Direction</td>
<td>8'-0&quot;W x 10'-0&quot;H</td>
<td>FL2800, FL2800LBR</td>
<td>* * * * * *</td>
</tr>
</tbody>
</table>

#### Wood Doors Swinging in the Same Direction

<table>
<thead>
<tr>
<th>Type and Application</th>
<th>Door Opening</th>
<th>Exit Device Series</th>
<th>UL Fire Door Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mortise Lock Device Wood Door Concealed Vertical Rod Device</td>
<td>8'-0&quot;W x 8'-0&quot;H</td>
<td>FL2300 x FL2700</td>
<td>* * * * * *</td>
</tr>
<tr>
<td>Mortise Lock Device Wood Door Concealed Vertical Less Bottom Rod Device</td>
<td>8'-0&quot;W x 8'-0&quot;H</td>
<td>FL2300 x FL2700LBR</td>
<td>* * * * * *</td>
</tr>
</tbody>
</table>

#### Wood Doors Swinging in the Same or Opposite Direction

<table>
<thead>
<tr>
<th>Type and Application</th>
<th>Door Opening</th>
<th>Exit Device Series</th>
<th>UL Fire Door Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Wood Door Concealed Vertical Rod Devices</td>
<td>8'-0&quot;W x 8'-0&quot;H</td>
<td>FL2700</td>
<td>* * * * * *</td>
</tr>
<tr>
<td>Two Wood Door Concealed Vertical Less Bottom Rod Devices</td>
<td>8'-0&quot;W x 8'-0&quot;H</td>
<td>FL2700LBR</td>
<td>* * * * * *</td>
</tr>
</tbody>
</table>

---

All Fire Exit Hardware conforms to UL10C and UBC 7-2.
Consult with Door Manufacturer for specific limitations on Fire Door Assemblies.
**STRIKES**

**Rim Exit Devices**
For Minimum Stile Widths see pages 36 and 37.

- **S300 Standard**

- **S301 Optional**

- **S458 Optional**
  For Rim Devices. Black Powder Coated Investment Cast, Stainless Steel Base and Roller.

- **S988 Standard**

**Vertical Rod Exit Devices**
Top Strike - For Surface Vertical Rod Devices, S300 standard and S301 optional, see above.

- **S460 Bottom Strike**
  For Vertical Rod Devices, Surface or Concealed. Black Powder Coated Steel.

- **S519 Top Strike**

**Mortise Exit Devices**
Open Back Strikes allow a pair of doors to open and close independently. Strikes are handed. Specify Hand same as Mortise Lock (e.g. RHRB).

- **S982 Standard**
  Curved lip.

- **S983 Optional**
  7/8" Flat Lip to center. For overlapping astragal.

- **S984 Optional**
  Open Back Strike For 4-7/8" x 1-1/4" door edge cutout.

- **S985 Optional**
  Open Back Strike For 8" x 1-1/4" door edge cutout.
**Dummy Touchbar**

**Rigid Dummy Touchbar** - Touchbar is rigid. For push/pull operation specify Dummy Trim (02 function), see page 5 for Wide Stile and page 11 for Narrow Stile Trims.

<table>
<thead>
<tr>
<th>3-0 Door</th>
<th>4-0 Door</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide Stile:</td>
<td>N673DR-3</td>
</tr>
<tr>
<td>Narrow Stile:</td>
<td>N673DR-4</td>
</tr>
</tbody>
</table>

**Active Dummy Touchbar with Microswitch** - Has an internally mounted switch that is used to signal electromagnetic locks, horns, monitoring stations or other electronic components. For push/pull operation specify Dummy Trim (02 function), see page 5 for Wide Stile and page 11 for Narrow Stile Trims. Available with CD, ALK, ALW, TDS, DS and NDS options.

<table>
<thead>
<tr>
<th>3-0 Door</th>
<th>4-0 Door</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide Stile:</td>
<td>TS672DA-3</td>
</tr>
<tr>
<td>Narrow Stile:</td>
<td>TSN674DA-4</td>
</tr>
</tbody>
</table>

**Shim Kit** - for Narrow Stile Devices

NSMK995 used to accommodate doors with raised glass moldings. The kit consists of one 1/8” thick shim for the Chassis and one 1/8” thick shim for the End Cap Bracket Assembly.

**To Order:** Specify NSMK995 (e.g. 2400 NSMK995)

**Wide Stile Devices** are designed with a 1/4” gap (see page 2) between the back of the touchbar and the door and do not require shims. If more than 1/4” space is needed behind the device specify Shim Kit SMK994.

**Braille Touchbar**

Embossed Touchbar with the message “CAUTION STAIRWELL” in raised letters and Braille provides assistance to persons with impaired vision. Letters are 5/8” high and Braille is Grade 2, ADA compliant.

**To Order:** specify suffix “BRL” (e.g. 2103BRL)

**Miscellaneous**

**Dogging Key**

DK220 - 7/32 standard hex.

**Rod Guide**

RG124 - For Surface Vertical Rod Devices. Specify finish.

**End Cap**

EC992 - Wide Stile
NEC993 - Narrow Stile
For Hinge Stile end of all devices. Specify finish.

**Mounting Bracket**

MB305 - Wide Stile
NMB591 - Narrow Stile
To mount the device to the door on the Hinge Stile side.

**Top Rod** - 2200 and FL2200 Series.
Three stock lengths available for 7’-0”, 8’-0”, and 10’-0” high doors.

TR1854 - For 7’-0” doors, rod is 36” long.
TR1855 - For 8’-0” doors, rod is 48” long.
TR1857 - For 10’-0” doors, rod is 72” long.
TR5197 - For 12’-0” doors, rod is 96” long.

**Note:** 12’-0” top rod is Not available in “FL” fire rated option.

**Bottom Rod** - 2200 and FL2200 Series.
Extended Bottom Rods - For exit device mounting heights greater than 39 15/16” extended bottom rods are available.

**To Order:** B5247-09 x finish.

BR1859 - For Touchbar location at 39-15/16” from finished floor, rod is 32-5/16” long. Specify finish (see page 3 for Finish Descriptions).

**FB277** - Fire bolt assembly. (See below)

**Transom Bracket** - 2200 Series.
TMB453 - To mount the top strike in the flush transom application. Prepped for S300 Strike.
MINIMUM STILE WIDTH

Single Doors

- Rim Device with S300 or S301 Strikes
- Rim Device with S988 Strikes
- Mortise Device

Pair of Doors

- Rim Devices with S300 or S301 Strikes and Mullion
- Rim Devices with S458 Strikes and Mullion
- Two Vertical Rod Devices Surface or Concealed
- Mortise and Vertical Rod Device Surface or Concealed
- Wood Door Concealed Vertical Rod Devices
MINIMUM STILE WIDTH
Single Doors – Rim Devices

Rim Device with S988 Strike

Pair of Doors, Rim Devices

Rim Devices with S458 Strikes and Mullion

Concealed Vertical Rod Devices

Single Door

Rim Devices with S300 or S301 Strikes and Mullion

Pair of Doors

Two Concealed Vertical Rod Devices

Device Dimensions
### TRIM DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>1700A</th>
<th>1700B</th>
<th>1700C</th>
<th>2000C</th>
<th>CO3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1700A</td>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
<td><img src="image3" alt="Image" /></td>
<td><img src="image4" alt="Image" /></td>
<td><img src="image5" alt="Image" /></td>
</tr>
<tr>
<td>1700B</td>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
<td><img src="image3" alt="Image" /></td>
<td><img src="image4" alt="Image" /></td>
<td><img src="image5" alt="Image" /></td>
</tr>
<tr>
<td>1700C</td>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
<td><img src="image3" alt="Image" /></td>
<td><img src="image4" alt="Image" /></td>
<td><img src="image5" alt="Image" /></td>
</tr>
<tr>
<td>2000C</td>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
<td><img src="image3" alt="Image" /></td>
<td><img src="image4" alt="Image" /></td>
<td><img src="image5" alt="Image" /></td>
</tr>
<tr>
<td>CO3</td>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
<td><img src="image3" alt="Image" /></td>
<td><img src="image4" alt="Image" /></td>
<td><img src="image5" alt="Image" /></td>
</tr>
</tbody>
</table>

| 4900A | ![Image](image1) | ![Image](image2) | ![Image](image3) | ![Image](image4) | ![Image](image5) |
| 4900B | ![Image](image1) | ![Image](image2) | ![Image](image3) | ![Image](image4) | ![Image](image5) |
| 4900C | ![Image](image1) | ![Image](image2) | ![Image](image3) | ![Image](image4) | ![Image](image5) |
| 4900D | ![Image](image1) | ![Image](image2) | ![Image](image3) | ![Image](image4) | ![Image](image5) |
| 4900K | ![Image](image1) | ![Image](image2) | ![Image](image3) | ![Image](image4) | ![Image](image5) |

Lever Centerline 38-3/16” from Finish Floor when Device Centerline is 39-15/16”.

| 2900A | ![Image](image1) | ![Image](image2) | ![Image](image3) | ![Image](image4) |
| 2900B | ![Image](image1) | ![Image](image2) | ![Image](image3) | ![Image](image4) |
| 2900C | ![Image](image1) | ![Image](image2) | ![Image](image3) | ![Image](image4) |
| 2900D | ![Image](image1) | ![Image](image2) | ![Image](image3) | ![Image](image4) |

Lever Centerline 38-3/16” from Finish Floor when Device Centerline is 39-15/16”.
Pre-wired Plug-in Connector:
The pre-wired plug-in connectors allow for easy installation to the respective electrical products ordered. When the plug-in connects are ordered, the Precision Hardware Electrified Exit Device ships pre-assembled with the quick connect plugs.

See illustration below for more details on how the STANLEY Quick Connect system works. For additional details please refer to the STANLEY Security website at STANLEYsecurity.com, under the Precision Hardware web page.

STANLEY Quick Connect System
STANLEY Quick Connect plug-in connectors must be used with the following components to work as a complete plug-and-play system:

1. Specify appropriate PRECISION or BEST electrified products
2. Specify correct wire harness length from door hardware to electric power transfer device or electrified hinge
3. Specify either the NEW electric power transfer (EPT-12C) or the NEW electrified hinge (CECB179-12C)
4. Specify correct wire harness length from power transfer or electrified hinge to wire extension (WH-6E)
5. Choose wire harness extension to connect to power source

How To Order
To order the STANLEY Quick Connect pre-wired plug-in connectors, include the “C” prefix for the Precision Exit Device. See example below.

PRECISION Exit Device
CELRTS 2108 X V4908A 630
MOTORIZED LATCH RETRACTION

PRECISION Motorized Latch Retraction (MLR) exit devices feature the top-quality materials and robust engineering you expect from PRECISION, while reducing noise, lowering current requirements, and allowing for longer wire runs compared to power hungry solenoid-driven products. Perfect for use in applications that require more flexibility and quieter performance, PRECISION MLR engineering integrates easily with existing security frameworks.

<table>
<thead>
<tr>
<th>PRECISION MLR Exit Device Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certifications</strong></td>
</tr>
<tr>
<td>UL-listed panic and fire</td>
</tr>
<tr>
<td>UL 305</td>
</tr>
<tr>
<td>UL10C</td>
</tr>
<tr>
<td>Certified ANSI/BHMA 156.3 Grade 1</td>
</tr>
<tr>
<td>FVSU/FVSU7</td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
</tr>
<tr>
<td>24 Volts DC @ 1 Amp</td>
</tr>
<tr>
<td>Holding current 250mA</td>
</tr>
<tr>
<td>Note: The MLR initial inrush power requirement is 1Amp. @ 24VDC. Other factors must be taken into consideration when selecting a power source, i.e. wire run, wire gauge, other electrical loads, etc.</td>
</tr>
<tr>
<td><strong>Wire Count</strong></td>
</tr>
<tr>
<td>Two brown/white non-polarized power wires</td>
</tr>
<tr>
<td>Two blue/yellow non-polarized sensor wires</td>
</tr>
<tr>
<td>Note: Termination of the sensor wires is optional, but provides positive confirmation of latch retraction when used with the RPSMLR2 or RPSMLR2BB Power Supplies.</td>
</tr>
<tr>
<td><strong>Opening Width Range</strong></td>
</tr>
<tr>
<td>2'6” Applications: no field cutting; 2'6” openings ONLY</td>
</tr>
<tr>
<td>3'0” Applications: no field cutting; 3'0” openings ONLY</td>
</tr>
<tr>
<td>4'0” Applications: field cutting permitted down to 3'4” openings</td>
</tr>
<tr>
<td><strong>Retrofit Kit</strong></td>
</tr>
<tr>
<td>The MLR option can be ordered as a field retrofit kit to accommodate existing APEX 2000 Series exit devices</td>
</tr>
<tr>
<td>MLR can be retrofitted to existing ELR exit devices</td>
</tr>
<tr>
<td>To order the retrofit kit, specify MLR-K</td>
</tr>
<tr>
<td>Note: MLR is not compatible with certain product options. For example, MLR is not compatible with mechanical dogging. Please consult the factory for additional details.</td>
</tr>
</tbody>
</table>
The PRECISION RPSMLR2 Series is the recommended power source for PRECISION Motorized Latch Retraction (MLR) exit devices. The RPSMLR2 Series provides a code compliant source of filtered and regulated 24 Volt DC power. The RPSMLR2 Series is available in two enclosure sizes and they can each power up to (2) MLR exit devices.

### PRECISION RPSMLR2 Series Power Supplies Standard Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certifications</strong></td>
<td>UL 294, ULC S-319</td>
</tr>
<tr>
<td><strong>Input Power</strong></td>
<td>120 VAC</td>
</tr>
<tr>
<td><strong>Input</strong></td>
<td>Fire alarm termination</td>
</tr>
<tr>
<td><strong>Output Power</strong></td>
<td>2 filtered &amp; regulated 24 Volts DC outputs @ 2 Amps</td>
</tr>
<tr>
<td></td>
<td>Holding current 200mA</td>
</tr>
<tr>
<td></td>
<td>1 filtered &amp; regulated 24 Volts DC auxiliary output @ 0.8 Amps</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>2 normal open relay outputs</td>
</tr>
<tr>
<td></td>
<td>Outputs can be wired for 2 different modes:</td>
</tr>
<tr>
<td></td>
<td>- 1 second delay prior to relay output</td>
</tr>
<tr>
<td></td>
<td>- Positive confirmation of latch retraction prior to signaling the operator when used in conjunction with MLR exit device sensor wires</td>
</tr>
<tr>
<td><strong>Battery Backup (RPSMLR2BB only)</strong></td>
<td>Built in charger for sealed lead acid or gel batteries</td>
</tr>
<tr>
<td></td>
<td>Automatically switches to stand-by if AC fails</td>
</tr>
<tr>
<td></td>
<td>Charging current 650mA max</td>
</tr>
<tr>
<td></td>
<td>Batteries are not included</td>
</tr>
<tr>
<td><strong>Visual Indicators</strong></td>
<td>AC power, green LED – Indicates presence of AC power</td>
</tr>
<tr>
<td></td>
<td>Triggered input, 2 red LEDs – Indicates input activation</td>
</tr>
<tr>
<td></td>
<td>Fire alarm interface, green LED – Indicates fire alarm activation</td>
</tr>
<tr>
<td></td>
<td>Battery status, red LED – Indicates low battery during AC power failure</td>
</tr>
<tr>
<td><strong>Enclosure Dimensions</strong></td>
<td>RPSMLR2: 12.5&quot;x7.5&quot;x3.25&quot;</td>
</tr>
<tr>
<td></td>
<td>RPSMLR2BB: 13.5&quot;x13&quot;x3.25&quot;</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>Keyed enclosure</td>
</tr>
</tbody>
</table>