

FALCON®

24/25 Series

Heavy duty touch bar exit device



Table of contents

| | | | |
|----|--|-------|-------------------------------|
| 4 | Introducing the 24 Series and 25 Series | 28 | 24 Series trims |
| 6 | 25 Series rim devices | 29 | 24 Series finishes |
| 8 | 25 Series vertical rod devices | 30 | 24 Series types and functions |
| 10 | 25 Series mortise devices | 31 | 24 Series door application |
| 12 | 25 Series concealed vertical rod devices | 32-33 | Electric latch retraction |
| 14 | 25 Series accessories | 34-35 | Delayed egress |
| 15 | 25 Series strikes | 36 | Electric lock/unlock trim |
| 16 | 25 Series trims | 37 | Exit alarm |
| 17 | 25 Series finishes | 38 | Device monitoring |
| 18 | 25 Series types and functions | 39 | Power supply |
| 19 | 25 Series door application | 40 | Electrical options summary |
| 20 | 24 Series rim devices | 41-42 | How to order |
| 22 | 24 Series vertical rod devices | | |
| 24 | 24 Series concealed vertical rod devices | | |
| 26 | 24 Series accessories | | |
| 27 | 24 Series strikes | | |

The Falcon difference

Safety, security and uncompromising value

At Falcon, we know that every product you sell not only has to meet local building codes, but also your expectations for performance and quality. We take your expectations seriously, and that's why we build our touchbars to deliver durability, convenience and unmatched value. After all, we've built our reputation on the same standards that you have – providing quality products at a reasonable price delivered on time. It's the way we do business and it's what makes Falcon locks a powerful choice no matter what your project.

Introducing the Falcon 24 and 25 Series

The perfectly simple, tougher than nails, costs less than you think, fits anywhere exit device.

Offices, banks, assisted living facilities, retail stores and other commercial buildings have constant traffic, so door hardware must be able to take continual use and abuse. The new Falcon 24 and 25 Series exit devices fill the bill with some of the toughest, most reliable performance in the business. A host of features makes this a smart solution, like a choice of an A or B label fire rating, electrified and panic options, and a full complement of trims. Sleek, streamlined styling and a choice of wide (25 Series) and narrow stile (24 Series) device applications means a smart solution for your building design, as well as its use. And since they're backed by one of the best names in the business, you can be sure you're getting the utmost value, reliability and durability.

Features

Streamlined design includes flush-end cap for clean lines and a more attractive installation.

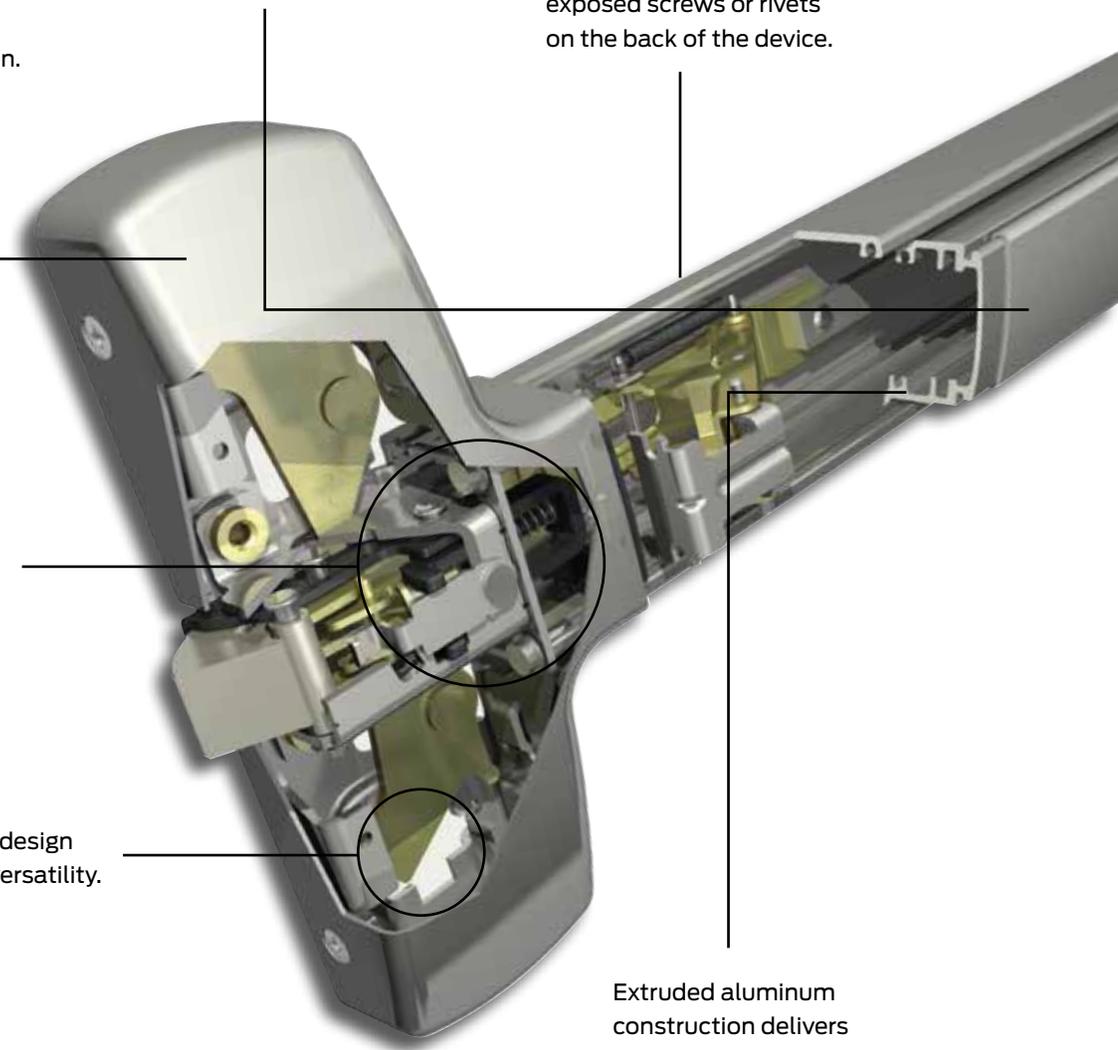
Stainless steel pushpad cover for a scratch-resistant surface.

Clean design with no exposed screws or rivets on the back of the device.

Patent-pending deadlocking technology ensures reliable security.

One trim input design for maximum versatility.

Extruded aluminum construction delivers greater strength and impact resistance.



Falcon exit devices

Architectural pushpads

Commercial pushpads



24/25 Series

19 Series

1490/1590

1690/1790

| | | | | | |
|------------------|---|--|--|--|--|
| Selling features | <ul style="list-style-type: none"> • Maximum flexibility in a variety of applications • Wide range of features and options • Patent pending deadlocking technology | <ul style="list-style-type: none"> • Lowest cost most dependable light-duty exit • Large trim selection • Full compliment of electrical options • Standard deadlocking | <ul style="list-style-type: none"> • Steel operating mechanisms • Aluminum push bar and end caps • Durable design • Surface vertical and rim options available | <ul style="list-style-type: none"> • Patented pending latchbolt for hurricane ratings • #1 selling exit device for aluminum doors • Full compliment of electrical options • Durable design | |
| | Applications | <ul style="list-style-type: none"> • Frequent traffic • Offices, churches, hospitality, retail, education, healthcare • Interior, exterior, new construction, retro-fit | <ul style="list-style-type: none"> • Moderate traffic • Commercial, multi-family, office, retail • Interior, exterior, retro-fit | <ul style="list-style-type: none"> • Moderate traffic • Commercial, multi-family, office, retail • Interior, exterior, retro-fit | <ul style="list-style-type: none"> • Moderate traffic • Commercial, multi-family, office, retail • Interior, exterior, retro-fit |
| | Device options | <ul style="list-style-type: none"> • Rim, SV, CV, M • 6 functions /9 finishes • 4 lever designs • 10-year warranty | <ul style="list-style-type: none"> • Rim, SV • 7 functions /4 lever designs • 3 finishes • 10-year warranty | <ul style="list-style-type: none"> • CV=1490/Rim=1590 • 4 functions/10 finishes • 3 length options • 10-year warranty | <ul style="list-style-type: none"> • CV = 1690/Rim = 1790 • 4 functions/7 finishes • 4 length options • 10-year warranty |

Crossbars

Recessed/ concealed devices



XX

1990

2090

2390

| | | | | |
|---|--|---|--|--|
| <ul style="list-style-type: none"> • Classic traditional design • Dependable and attractive • Economic crossbar option • Panic and fire rated options | <ul style="list-style-type: none"> • Classic industry look • Balanced appearance, dependable performance and economical pricing • Hardened steel latches • Adjustable strike to ensure safety, security and smooth operation | <ul style="list-style-type: none"> • Classic looks in a rim device • Designed for high use and abuse • 1/2" inch steel latchbolt • Surface mounted strikes for full frame or blade type stops | <ul style="list-style-type: none"> • Reduced projection recessed device • Tough, reliable performance • Easy rod adjustment simplifies installation • Smooth, reliable operation | |
| Applications | <ul style="list-style-type: none"> • Light/moderate traffic • Commercial, multi-family, office, retail • Interior, exterior, retro-fit | <ul style="list-style-type: none"> • Light traffic • Commercial, multi-family, office, retail • Interior, exterior, retro-fit | <ul style="list-style-type: none"> • Light traffic • Commercial, multi-family, office, retail • Interior, exterior, retro-fit | <ul style="list-style-type: none"> • Moderate/ frequent traffic • Healthcare, assisted living, education • Interior, new construction |
| Device options | <ul style="list-style-type: none"> • Rim, SV, CV, M • 13 functions/8 finishes • 5 lever options • 10-year warranty | <ul style="list-style-type: none"> • CV • 4 functions/10 finishes • 2 length options • 10-year warranty | <ul style="list-style-type: none"> • Rim • 4 functions/10 finishes • 2 length options • 10-year warranty | <ul style="list-style-type: none"> • CV • 3 functions/4 finishes • 2 length options • 10-year warranty |

25-R Series

Rim device

Panic exit hardware

The Falcon 25-R Series rim device meets the demanding requirements of high traffic installations with a single-point, rim type latch and a streamlined touch bar design. This device can also be electrified for maximum ease of use and accessibility.



299 Strike



2789
Dogging key



Cylinder dogging

Single door application

| Device | Door size | Door strike | Door stile (in) | Min door opening width |
|--------|-----------|-------------|-----------------|------------------------|
| 25-R | 3' | 299 | 4" | 2' 7 1/2" |
| | | 264 | 3 7/8" | 2' 7 3/8" |
| | | 1439 | 3 1/4" | 2' 6 3/4" |
| | | 1606 | 3 5/8" | 2' 7 1/8" |
| 25-R | 4' | 299 | 4" | 3' 1 1/2" |
| | | 264 | 3 7/8" | 3' 1 3/8" |
| | | 1439 | 3 1/4" | 3' 3/4" |
| | | 1606 | 3 5/8" | 3' 1 1/8" |

Double door application

| Device | Door size | Strike x mullion | Door stile (in) | Min door opening width |
|------------|-----------|------------------|-----------------|-----------------------------------|
| 25-R | 3' | 299 x 2923 | 4 1/8" | 2' 7 1/2" |
| | | 299 x 4023 | 4 3/8" | 2' 7 1/2" |
| | | 264 x 2923 | 4" | 2' 7 3/8" |
| | | 264 x 4023 | 4 1/4" | 2' 7 3/8" |
| | | 1439 x 2923 | 3 7/8" | 2' 7 1/4" |
| | | 1439 x 4023 | 4 1/8" | 2' 7 1/4" |
| | | 1606 x 2923 | 4 1/4" | 2' 7 1/8" |
| | | 1606 x 4023 | 4 1/2" | 2' 7 1/8" |
| 25-R | 4' | 299 x 2923 | 4 1/8" | 3' 1 1/2" |
| | | 299 x 4023 | 4 3/8" | 3' 1 1/2" |
| | | 264 x 2923 | 4" | 3' 1 3/8" |
| | | 264 x 4023 | 4 1/4" | 3' 1 3/8" |
| | | 1439 x 2923 | 3 7/8" | 3' 1 1/4" |
| | | 1439 x 4023 | 4 1/8" | 3' 1 1/4" |
| | | 1606 x 2923 | 4 1/4" | 3' 1 1/8" |
| | | 1606 x 4023 | 4 1/2" | 3' 1 1/8" |
| 25-Vx 25-R | 3' | 1609 | 3 1/2" | 2' 7 5/8" for 3 1/2" Min stile |
| 25-Vx 25-R | 4' | 1609 | 3 1/2" | 3' 1 5/8" for 3 1/2" Min stile |

Specifications

| | |
|------------------------------|--|
| Hand: | Non-handed |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (see page 17 for finishes). |
| Strikes: | 299 strike standard. See page 15 for additional info. |
| Latchbolt: | Stainless steel, 3/4" throw. |
| Deadlocking latchbolt: | Standard. |
| Dogging feature: | Half turn hex dogging standard. No threaded parts to wear out. |
| Cylinder dogging: | Specify "CD" prefix. Uses 1 1/8" long mortise cylinder with standard cam. |
| Stock sizes: | See chart to left. Cut to size in the field. |
| Doors: | 1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4". |
| Projections: | 2 3/4" maximum, 2" dogged. |
| Mounting height: | 40 1/4" from CL to finished floor. |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local (see pages 33-40 for details). |
| Fasteners: | All mounting screws are concealed, sheet metal screws and machine screws standard. |
| Sex bolts: | Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 8 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| Center case & working parts: | Center case is heavy wrought and sintered metal parts. |
| Shim kits: | For glass lite applications; 1/4" thick, specify SK25-RM. |
| 579 Strike retrofit kit: | Consult factory. |

F-25-R Series

Rim device

🔥 Fire exit hardware

The Falcon F-25-R Series rim device combines sleek styling and durability with the protection of a fire-rated device. The F-25-R also features a single-point, rim type latch and can be electrified.



299F Strike



499F Strike



Single door application

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|-------------|----------------|------------------------|
| F-25-R | 3' | 299-F | 4" | 2' 7 1/2" |
| F-25-R | 4' | 299-F | 4" | 3' 1 1/2" |

Double door application

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|----------------|----------------|------------------------|
| F-25-R | 3' | 499-F x F-4023 | 4 1/2" | 2' 7 5/8" |
| F-25-R | 4' | 499-F x F-4023 | 4 1/2" | 3' 1 5/8" |

Specifications

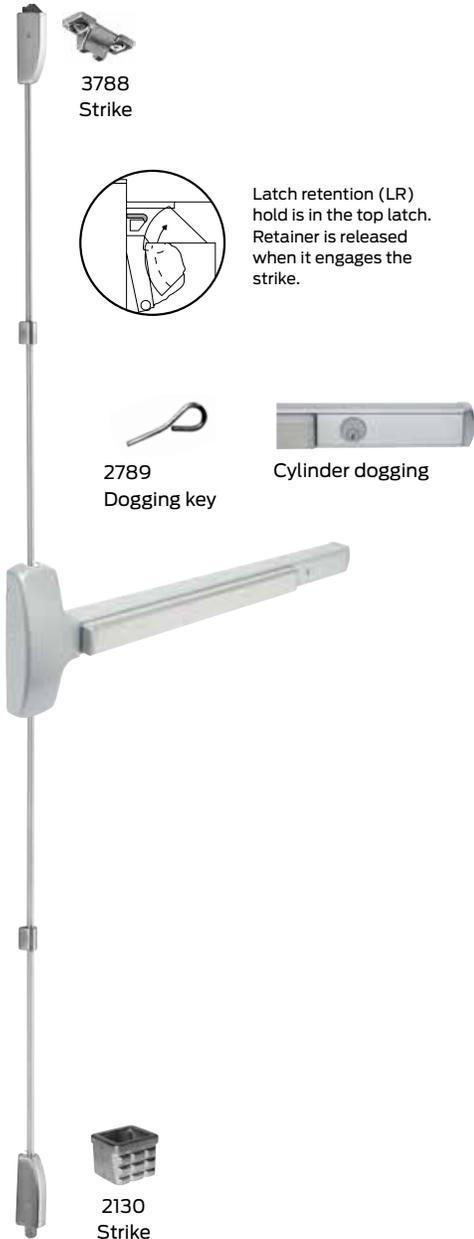
| | |
|------------------------------|--|
| Hand: | Non-handed |
| UL: | "A" label (3 hr.); 4'0" x 8'0"; 8'0" x 8'0" with F-4023 mullion. "B" label (1 1/2 hr.); 8'0" x 8'0"; with KRF4023. |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (see page 17 for finishes). |
| Strikes: | 299F strike standard. 499F standard for pairs with mullion. |
| Latchbolt: | Stainless steel, 3/4" throw. |
| Deadlocking latchbolt: | Standard. |
| Stock sizes: | See chart to left. Cut to size in the field. |
| Doors: | 1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4". |
| Projections: | 2 3/4" maximum. |
| Mounting height: | 40 1/4" from CL to finished floor. |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local (see pages 33-40 for details). |
| Fasteners: | All mounting screws are concealed, sheet metal screws and machine screws standard. |
| Sex bolts: | Required for use in EO applications when used with wood, composite or non-reinforced hollow metal doors. For EO device, specify 8 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| Center case & working parts: | Center case is heavy wrought and sintered metal parts. |
| Shim kits: | For glass lite applications; 1/4" thick, specify SK25-RM. |

25-V Series

Vertical rod device

Panic exit hardware

High-traffic applications demand the added strength and protection that comes with a vertical rod device. The Falcon F-25-V Series delivers with a surface-applied design that includes standard top latch and deadlocking. The sleek touch bar design ensures an attractive installation.



Specifications

| | |
|------------------------|---|
| Hand: | Field reversible. |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (see page 17 for finishes). |
| Strikes: | 3788 top strike is surface applied. 2130 bottom strike is mortised into floor. |
| Angle bracket | Use 4215 angle bracket in flush transom installations. Allows use of standard 3788 strike. |
| Latchbolt: | Top stainless steel $\frac{3}{4}$ " throw. Bottom bolt, $\frac{1}{2}$ " throw. |
| Deadlocking latchbolt: | Standard in top latch. |
| Dogging feature: | Half turn hex dogging standard. No threaded parts to wear out. |
| Cylinder dogging: | Specify "CD" prefix. Uses $1\frac{1}{8}$ " long mortise cylinder with standard cam. |
| Stock sizes: | See chart to below. |
| Doors: | $1\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than $1\frac{3}{4}$ ". |
| Projections: | $2\frac{3}{4}$ " maximum, 2" dogged. |
| Stile : | See chart below. |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (see pages 32-40 for details). |
| Fasteners: | All mounting screws are concealed, sheet metal screws and machine screws available, specify AMS. |
| Sex bolts: | Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 12 - 425 (#10-24) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| Vertical rods: | Furnished to length based on a $40\frac{1}{4}$ " horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering. |
| 25-V-LBR: | Less bottom rod vertical device. |
| Shim kits: | For glass lite applications; $\frac{1}{4}$ " thick, specify SK25-V. |

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|-------------|-----------|-------------|-------------------|--|
| 25-V | 3' | All | 3 $\frac{1}{2}$ " | 2' 7 $\frac{1}{8}$ " |
| 25-V | 4' | All | 3 $\frac{1}{2}$ " | 3' 1 $\frac{1}{8}$ " |
| 25-V x 25-R | 3' | 1609 | 3 $\frac{1}{2}$ " | 2' 7 $\frac{5}{8}$ " for 3 $\frac{1}{2}$ " Min. Stile |
| 25-V x 25-R | 4' | 1609 | 3 $\frac{1}{2}$ " | 2' 1 $\frac{5}{8}$ " for 3 $\frac{1}{2}$ " Min. Stile |

F-25-V Series

Vertical rod device

Fire exit hardware

When your application requires strength and durability, plus fire rated performance, the F-25-V Series is the total package. This surface-applied vertical rod device includes a sleek touch bar design with top latch and deadlocking standard.



Specifications

| | |
|------------------------|--|
| Hand: | Field reversible. |
| UL: | "A" Label (3 hr) - 8' x 10' double egress; 90 min. same egress - 8' x 10' Wood door; 20 min. 8' x 10'; 90 min. 8' x 9'. Consult door manufacturer for maximum rating. |
| Finishes: | US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630), US28 (628), 313AN (see page 17 for finishes). |
| Strikes: | 3788 top strike is surface applied. 2130 bottom strike is mortised into floor. |
| Latchbolt: | Top stainless steel 3/4" throw. Bottom bolt, 1/2" throw. |
| Deadlocking latchbolt: | Standard in top latch. |
| Latch retention hold: | Standard with top latch. |
| Stock sizes: | See chart below. |
| Doors: | 1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4". |
| Projections: | 2 3/4" maximum. |
| Stile : | See chart below. |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local (see pages 32-40 for details). |
| Fasteners: | All mounting screws are concealed. All machine screws (AMS) standard. |
| Sex bolts: | Required when used with wood, composite or non-reinforced hollow metal doors. For EO device, specify 12 - 425 (#10-24) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| F-25-V: | Latch Retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom. |
| F-25-V-LBR: | Less bottom rod vertical device. "A" Label (3 Hr) - 8' x 8'; 90 min. same egress - 8' x 8'. |
| Vertical rods: | Furnished to length based on a 40 1/4" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering. |
| Shim kits: | For glass lite applications; 1/4" thick, specify SK25-V. |

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|-------------|----------------|------------------------|
| F-25-V | 3' | All | 3 1/2" | 2' 7 1/8" |
| F-25-V | 4' | All | 3 1/2" | 3' 1 1/8" |

25-M Series

Mortise device

Panic exit hardware

The Falcon 25-M Series is the only device that pairs a tough, reliable exit device with our strongest mortise lock. The result is maximum safety and security in a single-point, mortise latch type device that also has an attractive touch bar design.



1279
Standard strike



2789
Dogging key



Mortise
lock



Cylinder dogging

| Device | Door size | Door strike | Door stile (in) | Min door opening width |
|--------|-----------|-------------|-----------------|------------------------|
| 25-M | 3' | All | 4 1/2" | 2' 7 1/2" |
| 25-M | 4' | All | 4 1/2" | 3' 2" |

Specifications

| | |
|------------------------|---|
| Hand: | Handed. |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (see page 17 for finishes). |
| Strikes: | 1279 standard, F1280 and 1281 optional. |
| Latchbolt: | Stainless steel, 3/4" throw. |
| Deadlocking latchbolt: | Standard. |
| Dogging feature: | Half turn hex dogging standard. No threaded parts to wear out. |
| Cylinder dogging: | Specify "CD" prefix. Uses 1 1/8" mortise cylinder with standard cam. |
| Mounting height: | 40 1/4" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990. |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local (see pages 32-40 for details). |
| Stile: | 4 1/2" minimum. |
| Projection: | 2 3/4" maximum, 2" dogged. |
| Stock Sizes: | See chart. |
| Doors: | 1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4". |
| Fasteners: | All mounting screws are concealed, sheet metal screws and machine screws standard. |
| Sex bolts: | Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| Mortise lock: | Heavy wrought lock case with investment cast or sintered steel parts. Lock face is forged brass—fits standard cutout. Locks are designed to fit standard ANSI A115.1 preparation for 1 3/4" doors. Deadlocked when auxiliary bolt is depressed 5/16". |
| Shim kits: | For glass lite applications; 1/4" thick, specify SK25-RM. |

F-25-M Series

Mortise device

🔥 Fire exit hardware

The Falcon F-25-M Series delivers the safety of a fire-rated exit device with a choice of ratings. The F-25-M can be paired with a Falcon mortise lock, assuring a tough and secure lock for any opening requiring a high level of safety and security.



| Device | Door size | Door strike | Door stile (in) | Min door opening width |
|--------|-----------|-------------|-----------------|------------------------|
| F-25-M | 3' | All | 4 1/2" | 2' 7 1/2" |
| F-25-M | 4' | All | 4 1/2" | 3' 2" |

Specifications

| | |
|------------------------|---|
| Hand: | Handed. |
| UL: | "A" label (3 hr.); 4'0" x 10'0" single doors; 8'0" x 10'0" pair of doors (F-25-M x F-25-V or F-25-C). "B" label (1-1/2 hr) with F1280 open back strike. |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 17 for finishes.) |
| Strikes: | 1279 standard. F1280 optional, B label (1 1/2 hr.). |
| Latchbolt: | Stainless steel, 3/4" throw. |
| Deadlocking latchbolt: | Standard. |
| Stock sizes | See chart. |
| Doors: | 1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4". |
| Projection: | 2 3/4" maximum. |
| Stile: | 4 1/2" minimum. |
| Mounting height | 40 1/4" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990. |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local (see pages 32-40 for details). |
| Fasteners: | All mounting screws are concealed. All machine screws (AMS) standard. |
| Sex bolts: | Required when used with wood, composite or non-reinforced hollow metal doors. For EO device specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| Mortise lock: | Heavy wrought lock case with investment cast or sintered steel parts. Lock face is forged brass—fits standard cutout. Locks are designed to fit standard ANSI A115.1 preparation for 1 3/4" doors. Deadlocked when auxiliary bolt is depressed 5/16". |
| Shim kits: | For glass lite applications; 1/4" thick, specify SK25-RM. |

25-C Series

Concealed vertical rod device

Panic exit hardware

Concealed vertical rods add strength to the door, while maintaining an attractive appearance. The Falcon 25-C Series concealed vertical rod device offers great value, clean styling and the security benefits of two-point latching. Falcon's patented center slide mechanism allows easy rod adjustment in the field.



Specifications

| | |
|------------------------|---|
| Hand: | Field reversible. |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (see page 17 for finishes). |
| Strikes: | 4188 mortised top, 2130 bottom standard, 4155 and 2126A bottom optional |
| Latchbolt: | Top stainless steel $\frac{3}{4}$ " throw. Bottom bolt $\frac{1}{2}$ " throw. |
| Deadlocking latchbolt: | Standard in top latch. |
| Latch retention hold: | Standard in top latch. |
| Dogging feature: | Half turn hex dogging standard. No threaded parts to wear out. |
| Cylinder dogging: | Specify "CD" prefix. Uses $1\frac{1}{8}$ " long mortise cylinder dogging with standard cam. |
| Stock sizes: | See chart. |
| Doors: | $1\frac{3}{4}$ " thick wood or metal. Specify thickness if other than $1\frac{3}{4}$ ". |
| Projection: | $2\frac{3}{4}$ " maximum, 2" dogged. |
| Stile: | $3\frac{1}{2}$ " minimum ($6\frac{1}{2}$ " minimum on wood doors). |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details.) |
| Fasteners: | All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS. |
| Sex bolts: | Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| 25-C-LBR: | Less bottom rod concealed vertical device. |
| Vertical rods: | Furnished to length based on $40\frac{1}{4}$ " horizontal CL to finished floor and a 7'0" door. Variations from these standards must be specified when ordering. |
| Patented centerslide: | For ease of adjustment. |
| Shim kits: | Consult factory. |

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|-------------|---|------------------------|
| 25-C | 3' | All | $3\frac{1}{2}$ " ($6\frac{1}{2}$ " for wood doors) | $2'7\frac{1}{8}$ " |
| 25-C | 4' | All | $3\frac{1}{2}$ " ($6\frac{1}{2}$ " for wood doors) | $3'1\frac{1}{8}$ " |

F-25-C Series

Concealed vertical rod device

🔥 Fire exit hardware

The Falcon F-25-C Series device lets you combine the safety of a fire-rated device with the clean aesthetics that come with a concealed vertical rod installation. In-field adjustment is simple thanks to our patented center slide mechanism. Two-point latching ensures optimal security at the door.



Specifications

| | |
|------------------------|---|
| Hand: | Handed. |
| UL: | "A" label (3 hr.); 4'0" x 10'0" single doors; 8'0" x 10'0" pair of doors (F-25-M x F-25-V or F-25-C). "B" label (1-1/2 hr) with F1280 open back strike. |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (see page 17 for finishes). |
| Strikes: | 1279 standard. F1280 optional, B label (1 1/2 hr.). |
| Latchbolt: | Stainless steel, 3/4" throw. |
| Deadlocking latchbolt: | Standard. |
| Stock sizes | See chart. |
| Doors: | 1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4". |
| Projection: | 2 3/4" maximum. |
| Stile: | 4 1/2" minimum. |
| Mounting height | 40 1/4" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990. |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details). |
| Fasteners: | All mounting screws are concealed. All machine screws (AMS) standard. |
| Sex bolts: | Required when used with wood, composite or non-reinforced hollow metal doors. For EO device specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| Mortise lock: | Heavy wrought lock case with investment cast or sintered steel parts. Lock face is forged brass—fits standard cutout. Locks are designed to fit standard ANSI A115.1 preparation for 1 3/4" doors. Deadlocked when auxiliary bolt is depressed 5/16". |
| Shim kits: | For glass lite applications; 1/4" thick, specify SK25-RM. |

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|-------------|--------------------------------|------------------------|
| 25-C | 3' | All | 3 1/2" (6 1/2" for wood doors) | 2' 7 1/8" |
| 25-C | 4' | All | 3 1/2" (6 1/2" for wood doors) | 3' 1 1/8" |

25 Series

Accessories and options



F-4023 Shown

Removable mullion

- The 2923, F4023, 4023, KRF-4023 and KR-4023 steel mullions are for use with the 25-R devices on double door openings.
Advantage: Increased security and tighter closure. Minimizes door warpage and sag. Regulates the flow of in-and-out traffic
- Falcon removable mullions are easily removed and reinstalled for full width access
- Rim devices are used on both leaves, attaining a perfectly symmetrical opening
- The mullion assembly consists of a mullion, top and bottom mounting brackets and a screw pack
- The F4023 and KRF-4023 fire-rated mullions also include four stabilizer blocks as required for labeled installations
- Strikes are not furnished with the mullion. Please see page 15 for strike information
- Mullions may be cut on the job for doors under stock lengths
- KR Mullions require 1 1/4" mortise cylinder with standard A cam

Mullion features

- Mullion fittings - ductile iron
- F4023, 4023, KRF-4023 and KR-4023 - 2" x 3" x height
- 2923 mullion - 1 1/2" x 2 1/2" x height
- Prime coat only
- 7' or 8' door opening standard, other door opening as specified

Cylinders

- Cylinder supplied only when specified
- Cylinders keyed different

Sex bolts

- 325 (1/4"-20 thread)
- 425 (#10-24 thread)

Dummy touch bars

- Active and Inactive models only. Active model offered with RX or RX/KOR. Consult factory for details
- To order, specify 250DT X finish, or 250DT X finish X active touch bar

(F)25-R Double door application

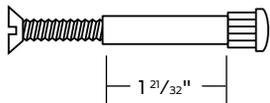
| Strike | Installed with mullion | Min stile | B* |
|--------|------------------------|-----------|---------|
| 299 | 2923 | 4 1/8" | 3" |
| 299 | 4023 | 4 3/8" | 3 1/4" |
| 499-F | F-4023 | 4 1/2" | 3 5/16" |
| 264 | 2923 | 4" | 2 7/8" |
| 264 | 4023 | 4 1/4" | 3 1/8" |
| 1439 | 2923 | 3 7/8" | 2 3/4" |
| 1439 | 4023 | 4 1/8" | 3" |
| 1606 | 2923 | 4 1/4" | 2 5/8" |
| 1606 | 4023 | 4 1/2" | 2 7/8" |
| 1609 | Surface 25-V | 4" | 2 3/8" |

Cylinder reference

| Device | Trim | Standard key cylinder | IC key cylinder |
|---|-------------------------|---------------------------------|---|
| 25 Series device | Cylinder dogging | 985 - 1 1/8" Mortise cylinder | C987 - 1 3/8" Mortise cylinder (Blocking ring plus security collar must equal 1/4" thick) |
| 25 Series device Rim & surface vertical | Cylinder only (NL - OP) | 951- Rim cylinder | 953 - Rim cylinder |
| 25 Series device Moortise | Cylinder only (NL - OP) | * 986 - 1 1/4" Mortise cylinder | ** C987 - 1 3/8" Mortise cylinder |
| 25 Series trims | L, K, TP, NL | 986 - 1 1/4" Mortise cylinder | C987 - 1 3/8" |
| 264 | 4023 mullion | 4 1/4" | 3 1/8" |

*Cylinder must be spaced off of the door a minimum of 1/4" via a recessed blocking ring

** Cylinder must be spaced off of the door a minimum of 3/8" via a recessed blocking ring.



25 Series

Strikes and accessories

Strikes

For rim devices



264
2 7/8" x 1 1/4" x 9/16"
(H x W x D)
Panic device only.



299
7 7/8" x 1 1/4" x 13/16"
(H x W x D)
Panic device only.



299F
2 7/8" x 1 1/4" x 13/16"
(H x W x D)



499F
3 5/8" x 1 1/2" x 16/16"
(H x W x D)



1439 Blade stop
1 3/4" x 1 7/8" x 1/2"
(H x W x D)
Panic device only.



1606
2 7/8" x 1 3/8" x 3/8"
(H x W x D)
Panic device only.



1609
3 1/4" x 1 1/16" x 3/8"
(H x W x D)
Requires coordinator.
Panic device only.

For surface and concealed vertical rod devices



2130
(F)25-V and (F)25-C
standard bottom strike for
grouting into concrete or
masonry floors.



3788
Furnished top
of (F)25-V.



4155
Optional strike.
Panic device only.



4188
Top strike for
(F)25-C.

For mortise lock devices



1279
Closed strike used on
single doors and on fire
exit hardware doors with
coordinator.

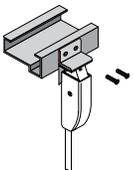


F1280
Open back strike used on pairs of
1 3/4" doors without astragal or
coordinator. Can be used on stock
hollow metal doors. F1280 "B" label
(1 1/2 hr.) stainless steel strike
available.



1281
Open back strike for 1 3/4" doors.
8" x 1 1/4" face allow use in
mortise lock cutout of stock
hollow metal door.

Accessories



4215
Angle bracket for flush transom applications.
Does not require elimination of latch retention
feature. Accepts 3788 strike for 25-V device.

Surface vertical extension rods

Extension rods are available in 12", 24" and 36" lengths in all finishes. Both ends tapped and all-thread included as connector.

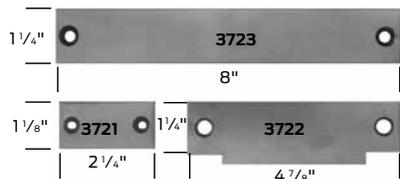


Concealed extension rods

Extension rods are available in 12", 24" and 36". Both ends have pressed-in, threaded inserts.



Filler Plates



3721/ 3722/ 3723

Steel filler plates

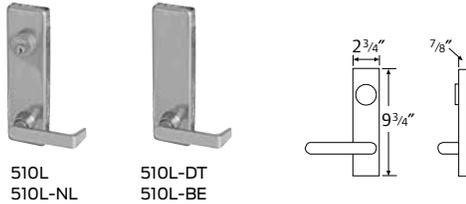
- 3721 Cylindrical lock front filler
- 3722 Strike filler - set no. SC for 161 cutout
- 3723 Mortise lock front filler
- 3722 Strike filler - set no. SM for 86 cutout

25 Series

Trim designs

Functionality built into the trim, facilitating easy door preps, easy field retrofit and easy ordering.

Lever trims (510L)



510L
510L-NL

510L-DT
510L-BE

Lever designs



Avalon
Projection: 3 1/4"

Dane
Projection: 3"

Sutro
Projection: 3 1/4"

Quantum
Projection: 3 1/4"

All levers return to within 1/2" of door.

Escutcheon: 9 3/4" (H) x 2 3/4" (W) (specify handing) brass finish.

Protected by easily replaceable shear pin.

Lever is reversible, supplied RHR if not specified. For keyed functions, see page 14 for cylinder requirements.

Vandal - resistant lever trims (511L)



Provides resistance to rotation, making damage of trim due to attack from the outside less likely. Designed to operate normally after vandalism attempts without the need for maintenance personnel intervention.

- Heavy duty, vandal-resistant, ANSI A156.3 grade 1 security trim.
- Lever deflects up to 22 ft-lb for a minimum of 10,000 vandal-resistant cycles.
- Vandal resistance is present in both lever rotation directions.
- After lever is fully deflected, lever stops rotating and a shear pin breaks at 70 ft-lb to prevent damage to unit.
- Available on 25 rim, vertical, mortise, and concealed devices.
- Retrofits all existing 25 trim without additional door prep.
- Works with all electric lock and unlock functions.
- Available in all finishes and designs including Avalon, Dane, Quantum and Sutro.

Pull trims (512)



512TP

512NL

512DT

512TP-BE

Delta (717)



717DT

Escutcheon: 16" x 2 3/4"

Grip: 6 1/4" C-C

Projection: 2 11/16"

Brass

For keyed functions, see page 14 for cylinder requirements.

Knob trims (513K)



513K-DT
513K-BE

513K
513K-NL

Round ball knob

Escutcheon: 9 3/4" x 2 3/4"

Projection: 4"

Brass

For keyed functions, see page 14 for cylinder requirements.

Cylinder only (NL-OP)

Key retracts latch bolt.
Cylinder sold separately
(see page 14).

25 Series

Trim chart & finish chart

Function

| | Lock/ unlock | NL | DT | BE | FSA/ FSE |
|------------------------------|--------------|---------|---------|----------|----------------------|
| Lever (510) | 510L | 510L-DT | 510-DT | 510L-BE | 510L-FSA 510L-FSE |
| Vandal-resistant lever (511) | 511L | — | — | — | 511L-FSA 511L-FSE |
| Pull trims (512) | 512TP | 512-NL | 512DT | 512TP-BE | 512L-FSA 512L-FSE |
| Knob (513) | 513K | 513K-NL | 513K-DT | 513K-BE | 513L-FSA 513L-FSE |
| Delta (717) | — | — | 717DT | — | — |

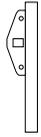
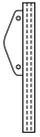
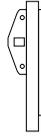
25 Series finishes

| | Color | US number | BHMA number |
|---|-------------------------|-----------|-------------|
|  | Brass, bright | US3 | 605 |
|  | Brass, satin | US4 | 606 |
|  | Bronze, satin | US10 | 612 |
|  | Chromium, bright | US26 | 625 |
|  | Chromium, satin | US26D | 626 |
|  | Anodized aluminum | US28 | 628 |
|  | Stainless Steel, bright | US32 | 629 |
|  | Stainless Steel, satin | US32D | 630 |
|  | Anodized duranodic | 313AN | 710 |

25 Series

Types and functions

This page shows all 25 Series device and trim functions.

| | Rim device ANSI type 1 | Vertical rod device ANSI type 2 | Mortise lock device ANSI type 3 | Concealed vertical rod device ANSI type 8 |
|--|--|--|--|--|
| Functions (ANSI) | (F)-25-R | (F)-25-V | (F)-25-M | (F)-25-C |
| EO (01) Exit only, no trim. |  25-R-EO |  25-V-EO |  25-M-EO |  25-C-EO |
| DT (02) Entrance by trim when actuating bar is locked down. |  25-R-DT |  25-V-DT |  25-M-DT |  25-C-DT |
| NL (03) Entrance by trim when latchbolt is retracted by key. Key removable only when locked. |  25-R-NL |  25-V-NL |  25-M-NL |  25-C-NL |
| TP (05) Entrance by thumbpiece. Key locks or unlocks thumbpiece. |  25-R-TP |  25-V-TP |  25-M-TP |  25-C-TP |
| L or K (08) Entrance by knob or lever. Key locks or unlocks knob. |  25-R-L/K |  25-V-L/K |  25-M-L/K |  25-C-L/K |
| L(NL) or K(NL) (09) Entrance by knob or lever only when released by key. Key removable only when locked. |  25-R-L/K(NL) |  25-V-L/K(NL) |  25-M-L/K(NL) |  25-C-L/K(NL) |

25 Series

Door application

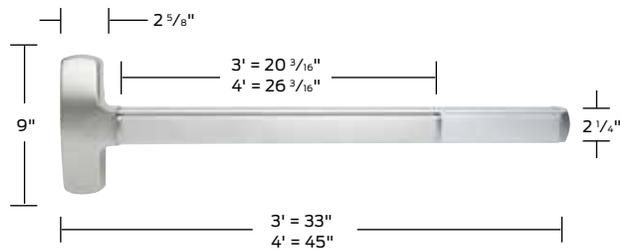
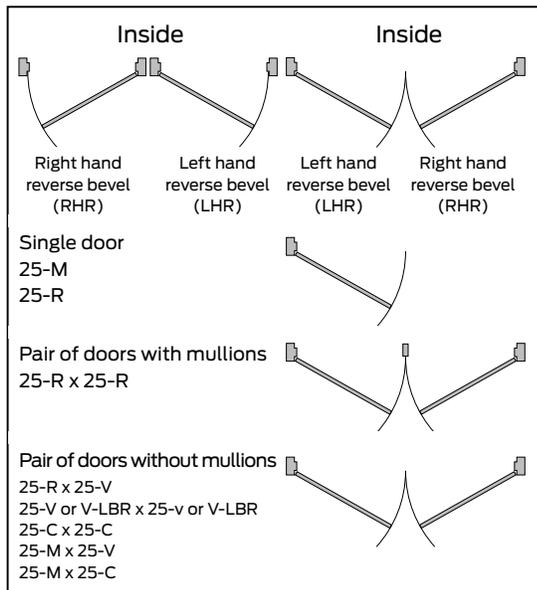
Label doors

Models F-25-R, F-25-M, F-25-C and F-25-V are labeled for use as  Fire exit hardware.

Door thickness

All devices and components supplied for 1 3/4" doors standard. Specify door thickness if other than 1 3/4".

Door application chart



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

24-R Series

Rim device

Panic exit hardware

The Falcon 24-R Series narrow stile rim device allows for application versatility in high-traffic installations. Standard features include a single-point, rim type latch and a streamlined touch bar design. This device can also be electrified for maximum ease of use and accessibility.



299 Strike



2789 Dogging key



Cylinder dogging

Single door application

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|-------------|----------------|------------------------|
| 24-R | 3' | 299 | 3 1/2" | 2' 7 1/2" |
| | | 264 | 3 3/8" | 2' 7 3/8" |
| | | 1439 | 2 1/4" | 2' 6 3/4" |
| | | 1606 | 2 3/4" | 2' 7 1/8" |
| 24-R | 4' | 299 | 3 1/2" | 3' 1 1/2" |
| | | 264 | 3 3/8" | 3' 1 3/8" |
| | | 1439 | 2 1/4" | 3' 3/4" |
| | | 1606 | 2 3/4" | 3' 1 1/8" |

Double door application

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|-------------|-----------|-------------|----------------|------------------------|
| 24-R | 3' | 299 x 2923 | 3 1/2" | 2' 7 1/2" |
| | | 299 x 4023 | 4" | 2' 7 1/2" |
| | | 264 x 2923 | 3 3/8" | 2' 7 3/8" |
| | | 264 x 4023 | 3 5/8" | 2' 7 3/8" |
| | | 1439 x 2923 | 3 1/2" | 2' 7 1/8" |
| | | 1439 x 4023 | 3 3/4" | 2' 7 1/8" |
| | | 1606 x 2923 | 3 1/2" | 2' 7 1/8" |
| | | 1606 x 4023 | 3 3/4" | 2' 7 1/8" |
| | | 4396 x 4423 | 2 1/8" | 2' 6 5/8" |
| | | 24-R | 4' | 299 x 2923 |
| 299 x 4023 | 4" | | | 3' 1 1/2" |
| 264 x 2923 | 3 3/8" | | | 3' 1 3/8" |
| 264 x 4023 | 3 5/8" | | | 3' 1 3/8" |
| 1439 x 2923 | 3 1/2" | | | 3' 1 1/8" |
| 1439 x 4023 | 3 3/4" | | | 3' 1 1/8" |
| 1606 x 2923 | 3 1/2" | | | 3' 1 1/8" |
| 1606 x 4023 | 3 3/4" | | | 3' 1 1/2" |
| 4396 x 4423 | 2 1/8" | | | 3' 5/8" |

Specifications

| | |
|------------------------------|--|
| Hand: | Non-handed |
| Functions: | 24-EO (exit only) has all functions built in. Order trim with the device, or add it later (see trim selection chart on page 29). |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (see page 29 for finishes). |
| Strikes: | 299F strike standard. See page 27 for optional strikes. |
| Latchbolt: | Stainless steel, 3/4" throw. |
| Deadlocking latchbolt: | Optional. Specify "DL" prefix. |
| Dogging feature: | Half turn hex dogging standard. No threaded parts to wear out. |
| Stock sizes: | See chart to left. |
| Doors: | 1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4". |
| Projections: | 2 3/4" maximum, 2" dogged. |
| Mounting height: | 40" from CL to finished floor. |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local (see pages 32-40 for details). |
| Fasteners: | All mounting screws are concealed. |
| Sex bolts: | Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 4 - 425 (#10-24) SNB and 2 - 325 (1/4"-20) SNB. For devices with trim, specify 4 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| Center case & working parts: | Wrought steel with heavy wrought and sintered metal parts. |
| Shim kits: | For glass lite applications; 1/4" thick, specify SK24-R. |

F-24-R Series

Rim device

🔥 Fire exit hardware

The Falcon F-24-R Series rim device combines sleek styling and durability with the protection of a fire-rated device. A narrow stile design allows for installation versatility. The F-24-R also features a single-point, rim type latch and can be electrified.



299F Strike



Single door application

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|-------------|----------------|------------------------|
| F-24-R | 3' | 299-F | 3 1/2" | 2' 7 1/2" |
| F-24-R | 4' | 299-F | 3 1/2" | 3' 1 1/2" |

Double door application

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|----------------|----------------|------------------------|
| F-24-R | 3' | 299-F x F-4023 | 4" | 2' 7 1/2" |
| F-24-R | 4' | 299-F x F-4023 | 4" | 3' 1 1/2" |

Specifications

| | |
|------------------------------|--|
| Hand: | Non-handed |
| UL: | "B" label (1 1/2 hr.); 4'0" x 8'0". |
| Functions | F-24-REO (Exit only) has all functions built in. Order trim with the device, or add it later. (see trim selection chart on page 29) |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (see page 29 for finishes) |
| Strikes: | 299F strike standard. |
| Latchbolt: | Stainless steel, 3/4" throw. |
| Deadlocking latchbolt: | Standard. |
| Stock sizes: | See chart to left. |
| Doors: | 1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4". |
| Projections: | 2 3/4" maximum. |
| Mounting height: | 40" from CL to finished floor. |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (see pages 32-40 for details) |
| Fasteners: | All mounting screws are concealed. Furnished with all machine screws. |
| Sex bolts: | Required when used with wood, composite or non-reinforced hollow metal doors. For EO device, specify 4 - 425 (#10-24) SNB and 2 - 325 (1/4"-20) SNB. For devices with trim, specify 4 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| Center case & working parts: | Investment-cast ferrous alloy with heavy wrought and sintered metal parts. |
| Shim kits: | For glass lite applications; 1/4" thick, specify SK24-R. |

24-V Series

Vertical rod device

Panic exit hardware

High-traffic applications demand the added strength and protection that comes with a vertical rod device. The Falcon 24-V Series delivers with a surface-applied design that includes standard top latch and deadlocking. The narrow stile and sleek touch bar design ensure an attractive installation.



Specifications

| | |
|------------------------|---|
| Hand: | Field reversible. |
| Functions: | 24-V-EO (exit only) has all functions built in. Order trim with the device, or add it later. (see trim selection chart on page 29) |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (see page 29 for finishes) |
| Strikes: | 3788 top strike is surface applied, 2130 bottom strike is mortised into floor. |
| Angle Bracket: | Use 4215 angle bracket in flush transom installations. Allow use of standard 3788 strike. |
| Latchbolt: | Top stainless steel, top latch $\frac{3}{4}$ " throw, bottom bolt $\frac{1}{2}$ " throw. |
| Deadlocking latchbolt: | Standard with top latch. |
| Latch retention hold: | Standard with top latch. On top latch. |
| Dogging feature: | Half turn hex dogging standard. No threaded parts to wear out. |
| Stock sizes: | See chart below. |
| Doors: | $1\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than $1\frac{3}{4}$ " thick. |
| Projections: | $2\frac{3}{4}$ " maximum, 2" dogged. |
| Stile: | $1\frac{3}{4}$ " minimum when used in pairs. |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local (see pages 32-40 for details). |
| Fasteners: | All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS. |
| Sex bolts: | Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 8 - 425 (#10-24) SNB and 2 - 325 ($\frac{1}{4}$ "-20) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| 24-V: | Latch retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom. |
| 24-V-LBR: | Less bottom rod vertical. |
| Vertical rods: | Furnished to length based on a 40" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering. |
| Shim kits: | For glass lite applications; $\frac{1}{4}$ " thick, specify SK24-V. |

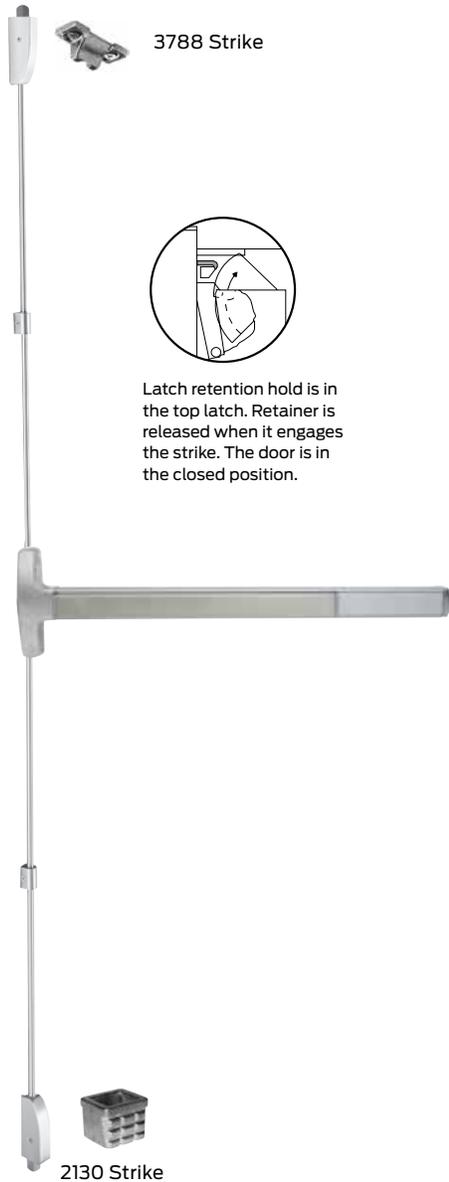
| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|-------------|------------------|------------------------|
| 24-V | 3' | All | $2\frac{1}{8}$ " | $2'7\frac{1}{4}$ " |
| 24-V | 4' | All | $2\frac{1}{8}$ " | $3'1\frac{1}{4}$ " |

F-24-V Series

Vertical rod device

Fire exit hardware

When your application requires strength and durability, plus fire-rated performance, the F-24-V Series is the total package. This surface-applied vertical rod device includes a sleek touch bar design with top latch and deadlocking standard, as well as a narrow stile that fits where you need it to.



3788 Strike



Latch retention hold is in the top latch. Retainer is released when it engages the strike. The door is in the closed position.

2130 Strike

Specifications

| | |
|------------------------|--|
| Hand: | Field reversible. |
| UL: | "A" Label (3 hr) - double egress - 8' x 10'; 90 min. same egress - 8' x 10'. Wood door: 20 min. 8' x 10'; 90 min. 8' x 9'. Consult door manufacturer for maximum rating. |
| Functions: | F-24-V-EO (exit only) has all functions built in. Order trim with the device, or add it later (see trim selection chart on page 29). |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (see page 29 for finishes) |
| Strikes: | 3788 top strikes are surface applied, 2130 bottom strike is mortised into floor. |
| Latchbolt: | Top stainless steel, top latch $\frac{3}{4}$ " throw, bottom bolt $\frac{1}{2}$ " throw. |
| Latch retention hold: | Standard with top latch. |
| Deadlocking latchbolt: | Standard with top latch. |
| Stock sizes: | See chart below. |
| Doors: | $1\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than $1\frac{3}{4}$ " thick. |
| Projections: | $2\frac{3}{4}$ " maximum. |
| Stile: | $2\frac{1}{8}$ " minimum when used in pairs. |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details.) |
| Fasteners: | All mounting screws are concealed. All machine (AMS) standard. |
| Sex bolts: | Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 8 - 425 (#10-24) SNB and 2 - 325 ($\frac{1}{4}$ -20) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| F-24-V: | Latch retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom. |
| F-24-V-LBR: | Less bottom rod vertical device. "A" Label (3 hr) - 8' x 8'; 90 min. same egress - 8' x 8'. Wood Door: 20 minute minimum - 8' x 8' openings. Consult door manufacturer for maximum rating. |
| Vertical rods: | Furnished to length based on a 40" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering. |
| Shim kits: | For glass lite applications; $\frac{1}{4}$ " thick, specify SK24-V. |

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|-------------|------------------|------------------------|
| F-24-V | 3' | All | $2\frac{1}{8}$ " | $2'7\frac{1}{4}$ " |
| F-24-V | 4' | All | $2\frac{1}{8}$ " | $3'1\frac{1}{4}$ " |

24-C Series

Concealed vertical rod device

Panic exit hardware

Concealed vertical rods add strength to the door, while maintaining an attractive appearance. The Falcon 24-C Series concealed vertical rod device offers great value, clean styling, a versatile narrow stile design and the security benefits of two-point latching. Falcon's patented center slide mechanism allows easy rod adjustment in the field.



Specifications

| | |
|------------------------|--|
| Hand: | Field reversible or specify handing. |
| Functions: | See trim selection chart on page 29. Delta trim only. |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (see page 29 for finishes). |
| Strikes: | 4188 mortised top and 2130 flush strike bottom, optional bottom 2126A and 4155. |
| Latchbolt: | Top stainless steel, top latch $\frac{3}{4}$ " throw. Bottom bolt $\frac{1}{2}$ " throw. |
| Deadlocking latchbolt: | Standard with top latch. |
| Latch retention hold: | Standard with top latch. |
| Dogging feature: | Half turn hex dogging standard. No threaded parts to wear out. |
| Cylinder dogging: | Specify "CD" prefix. Uses $1\frac{1}{8}$ " long mortise cylinder dogging with standard cam. |
| Stock sizes: | See chart below. |
| Doors: | $1\frac{3}{4}$ " thick, wood or metal. Specify if other than $1\frac{3}{4}$ " thick. |
| Projections: | $2\frac{3}{4}$ " maximum, 2" dogged. |
| Stile: | $2\frac{1}{4}$ " minimum when used in pairs. (6" minimum on wood doors) |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local (see pages 32-40 for details) |
| Fasteners: | All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS. |
| Sex bolts: | Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 2 - 425 (#10-24) SNB and 2 - 325 ($\frac{1}{4}$ -20) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| 24-V-LBR: | Less bottom rod concealed vertical device. |
| Vertical rods: | Furnished to length based on 40" horizontal CL to finished floor and a 7'0" door. Variations from these standards must be specified when ordering. |
| Patented centerslide: | For ease of adjustment. |
| Shim kits: | Consult factory |

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|-------------|--------------------------------------|------------------------|
| 24-C | 3' | All | $2\frac{1}{4}$ " (6" for wood doors) | $2'7\frac{3}{8}$ " |
| 24-C | 4' | All | $2\frac{1}{4}$ " (6" for wood doors) | $3'1\frac{3}{8}$ " |

F-24-C Series

Concealed Vertical Rod Device

Fire Exit Hardware

The Falcon F-24-C Series device lets you combine the safety of a fire-rated device with the clean aesthetics that come with a narrow stile and concealed vertical rod installation. In-field adjustment is simple thanks to our patented center slide mechanism. Two-point latching ensures optimal security at the door.



Specifications

| | |
|------------------------|--|
| Hand: | Field reversible. |
| UL: | "A" Label (3 hr) - double egress - 8' x 10'; 90 min. same egress - 8' x 10'. |
| Functions: | See trim selection chart on page 29. Delta trim only. |
| Finishes: | US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (see page 29 for finishes). |
| Strikes: | 4188 mortised top, 2130 flush strike bottom. |
| Latchbolt: | Top stainless steel, 3/4" throw. Bottom bolt 1/2" throw. |
| Latch retention hold: | Standard with top latch. |
| Deadlocking latchbolt: | Standard with top latch. |
| Stock sizes: | See chart below. |
| Doors: | 1 3/4" thick metal. Specify if other than 1 3/4" thick. |
| Projections: | 2 3/4" maximum. |
| Stile: | 2 1/4" minimum when used in pairs. (6" minimum on wood doors) |
| Electric functions: | Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local (see pages 32-40 for details). |
| Fasteners: | All mounting screws are concealed. All machine screws standard. |
| Sex bolts: | Required when used with wood, composite or non-reinforced hollow metal doors. For EO device specify 2 - 425 (#10-24) SNB and 2 - 325 (1/4"-20) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB. |
| ANSI: | Certified ANSI A156.3-2001 grade 1 standards. |
| F-24-C-LBR: | Less bottom rod concealed vertical device. "A" Label (3 hr) - 8' x 8'; 90 min. same egress - 8' x 8'. |
| Vertical rods: | Furnished to length based on 40" horizontal CL to finished floor and a 7'0" door. Variations from these standards must be specified when ordering. |
| Patented centerslide: | For ease of adjustment. |
| Shim kits: | Consult factory. |

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|-------------|----------------------------|------------------------|
| F-24-C | 3' | All | 2 1/4" (6" for wood doors) | 2' 7 3/8" |
| F-24-C | 4' | All | 2 1/4" (6" for wood doors) | 3' 1 3/8" |

24 Series

Accessories and options



4023 Shown

Removable mullion

- The 2923, 4023, KR4023 and 4423 steel mullions are for use with the 24-R devices on double door openings. Advantage: Increased security and tighter closure. Minimizes door warpage and sag. Regulates the flow of in-and-out traffic
- Removable mullions are easily removed and reinstalled for full width access
- Rim devices are used on both leaves, attaining a perfectly symmetrical opening
- The mullion assembly consists of a mullion, top and bottom mounting brackets and a screw pack. Soffit adapters are available for use with either the 2923, 4423 or the 4023 mullion
- Strikes are not furnished with the mullion (except 4423). Please see page 27 for strike information
- Mullions may be cut on the job for doors under stock lengths

Mullion features

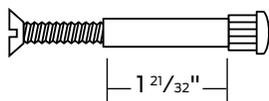
- Mullion fittings – ductile iron
- 4023 – 2" x 3" x height
- KR4023 cylinder removable mullion – 2" x 3" x height and uses 1 1/4" mortise cylinder not furnished
- 2923 mullion – 1 1/2" x 2 1/2" x height
- 423 mullion – T shape (1" on latch edge) supplied with 4396 adjustable strike
- Prime coat only
- 7' or 8' door opening standard, other door opening as specified

Cylinders - control trim

- Cylinder supplied only when specified.
- Cylinders available keyed alike.

Sex bolts

- 325 (1/4"-20 thread)
- 425 (#10-24 thread)



24-R Double door application

| Strike | Installed with mullion | Min stile | B* |
|--------|------------------------|-----------|---------|
| 299 | 2923 | 3 1/2" | 2 3/16" |
| 299 | 4023 | 4" | 2 7/16" |
| 264 | 2923 | 3 3/8" | 2 1/16" |
| 264 | 4023 | 3 5/8" | 2 5/16" |
| 1439 | 2923 | 3 7/16" | 1 7/8" |
| 1439 | 4023 | 3 11/16" | 2 1/8" |
| 1606 | 2923 | 3 5/16" | 1 7/8" |
| 1606 | 4023 | 3 11/16" | 2 1/8" |
| 4396 | 4423 | 2 1/8" | 1 1/8" |

Cylinder reference

| Device | Trim | Standard key cylinder | IC key cylinder |
|------------------|--|--|---|
| 24 Series device | Cylinder dogging | 985 - 1 1/8" Mortise cylinder | C987 - 1 3/8" Mortise cylinder (Blocking ring plus security collar must equal 1/4" thick) |
| 24 Series trims | L, K | 951- Rim cylinder | 953 - Rim cylinder |
| 24 Series trims | NL - Rim & surface vertical 718C, 718NL | 951- Rim cylinder | C953 - Rim cylinder |
| 24 Series trims | Concealed 718C, 713NL | 986 - 1 1/4" Mortise cylinder *4831 cam for trim prior to 2/28/12. B520-295 cam for trim after 2/28/12 | C987 - 1 3/8" mortise cylinder (bocking ring plus security collar must equal 1/4") |

24 Series

Accessories and strikes

Strikes

For rim devices



264
2 7/8" x 1 1/4" x 9/16"
(H x W x D)
Panic device only.



299
7 7/8" x 1 1/4" x 13/16"
(H x W x D)
Panic device only.



299F
2 7/8" x 1 1/4" x 13/16"
(H x W x D)



1606
2 7/8" x 1 3/8" x 3/8"
(H x W x D)
Panic device only.



1439 Blade stop
1 3/4" x 1 7/8" x 1/2"
(H x W x D)
Panic device only.

For surface and concealed vertical rod devices



2130
(F)24-V and (F)24-C
standard bottom
strike for grouting
into concrete or
masonry floors.



3788
Furnished top
of (F)24-V.

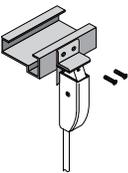


4155
Optional strike.
Panic device only.



4188
Top strike for
(F)24-C.

Accessories



4215
Angle bracket for flush transom applications.
Does not require elimination of latch
retention feature. Accepts 3788 strike for
24-V device.



Surface vertical extension rods

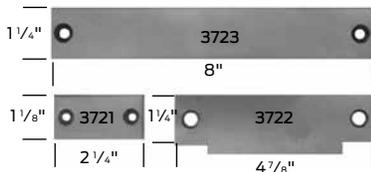
Extension rods are available in 12", 24" and 36" lengths in all finishes. Both ends tapped and all-thread included as connector.



Concealed extension rods

Extension rods are available in 12", 24" and 36". Both ends have pressed-in, threaded inserts.

Filler plates



3721/3722/3723

Steel filler plates

- 3721 Cylindrical lock front filler
- 3722 Strike filler - set no. SC for 161 cutout
- 3723 Mortise lock front filler
- 3722 Strike filler - set no. SM for 86 cutout

24 Series

Trim designs

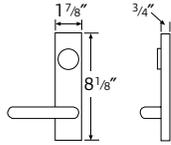
Lever trims (712L)



712L
712L/NL

712L/DT
712L/BE

Lever designs



Avalon
Projection: 3 1/8"

Dane
Projection: 2 7/8"

Sutro
Projection: 3 1/8"

Quantum
Projection: 3 1/8"

All levers return to within 1/2" of door.

Escutcheon: 8 1/8" (H) x 1 7/8" (W) (specify handing) brass finish.

Protected by easily replaceable shear pin.

Lever is reversible, supplied RHR if not specified. For keyed functions, see page 26 for cylinder requirements.

Knob trim (711K)



711K
711-NL

Round ball knob
Escutcheon: 8 1/8" x 1 7/8"
Projection: 3 7/8"
Brass

For keyed functions, see page 26 for cylinder requirements.

Athena (715)



715DT

Grip overall: 9 1/8"
Width: 1 1/8"
Pull: 6 1/4" C x C
Projection: 2 1/4"

Delta trims

1 1/8" Mortise
cylinder

1" Cylinder



718DT **718C** **718NL** **717DT** **718TL** **718TL-BE**

Specify handing
Escutcheon: 8 1/8" x 1 7/8"
Projection: 2 1/4"
All Delta pulls: 6 1/4" C x C
NL & DT: 14 1/16" x 2 1/4"

Cylinder information

Key retracts latch bolt.
Cylinder sold separately
(see page 26).

Brass and/or plated finishes.

For cylinder information see page 26.
When locking function is not required,
specify trim by (BE) blank escutcheon.

24 Series

Trim chart & finish chart

Function

| | Lock/ unlock | NL | DT | BE | FSA/ FSE |
|--------------------------|--------------|---------|---------|---------|----------|
| Lever ¹ (712) | 712L | 712L-NL | 712L-DT | 12L-BE | |
| Knob (711) | 711K | 711K-NL | — | 711K_BE | |
| Delta (717) | — | — | 717DT | — | |
| Delta (718) | — | 718NL | 718DT | — | 718C |
| Athena (715) | — | — | 715DT | | |

¹ Specify hand.

24 Series finishes

| | Color | US number | BHMA number |
|---|-------------------------|-----------|-------------|
|  | Brass, bright | US3 | 605 |
|  | Brass, satin | US4 | 606 |
|  | Bronze, satin | US10 | 612 |
|  | Chromium, bright | US26 | 625 |
|  | Chromium, satin | US26D | 626 |
|  | Anodized aluminum | US28 | 628 |
|  | Stainless steel, bright | US32 | 629 |
|  | Stainless steel, satin | US32D | 630 |
|  | Anodized duranodic | 313AN | 710 |

24 Series

Types and functions

| | Rim devices ANSI type 4 | Vertical rod devices ANSI type 5 | Concealed vertical rod devices ANSI type 6 |
|--|------------------------------------|---|---|
| Functions (ANSI) | (F)-24-R | (F)- 24-V | (F)-24-C |
| EO (01) Exit only, no trim. | 24-R-EO | 24-V-EO | 24-C-EO |
| DT (02) Entrance by trim when actuating bar is locked down. Note: Fire exit devices cannot be dogged down. Some codes permit electric dogging with fail secure circuitry. | 24-R-DT | 24-V-DT | 24-C-DT |
| NL (03) Entrance by trim when latchbolt is retracted by key. Key removable only when locked. | 24-R-NL | 24-V-NL | 24-C-NL |
| | Rim devices ANSI type 4 | Vertical rod devices ANSI type 5 | Concealed vertical rod devices ANSI type 6 |
| | (F)-24-R | (F)- 24-V | (F)-24-C |
| L or K (08) Entrance by knob or lever. Key locks or unlocks knob. | 24-R-L or K | 24-V-L or K | 24-C-L or K |
| L (NL) or K (NL) (09) Entrance by knob or lever only when released by key. Key removable only when locked. | 24-R-L or K(NL) | 24-V-L or K(NL) | 24-C-L or K(NL) |

24 Series

Door application

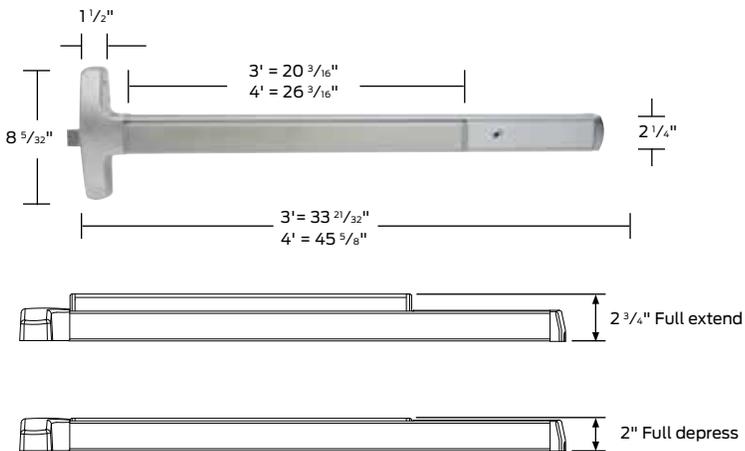
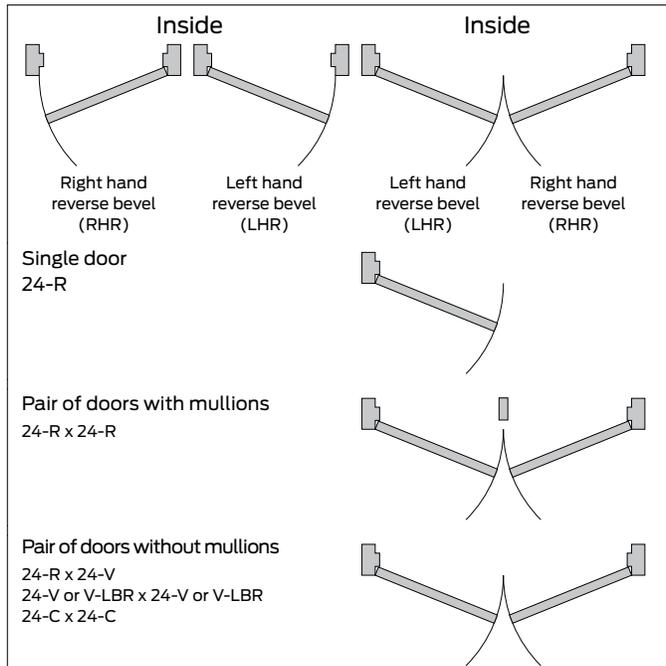
Label doors

Falcon models F-24-R, F-24-C and F-24-V are labeled for use as  fire exit hardware.

Door thickness

All devices and components supplied for 1 3/4" – 3'0" x 7'0" doors standard. Specify door thickness if other than 1 3/4".

Door application chart



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

Electric latch retraction

Electric latch retraction (EL) for all 24 and 25 Series devices

The Electric latch retraction (EL) feature provides control of latch retraction by guard or security system, allowing free entrance from outside or trim side of door. The EL system can be activated to hold the latch open momentarily or for extended periods of time, and can be interfaced with automatic doors, card readers, automatic fire alarm systems, etc.



The Electric latch retraction (EL) feature provides control of latch retraction by guard or security system, allowing free entrance from outside or trim side of door. The EL system can be activated to hold the latch open momentarily or for extended periods of time, and can be interfaced with automatic doors, card readers, automatic fire alarm systems, etc.

EL system requirements:

- The EL application requires the use of the PS914-2RS power supply (see page 32 for more details).
- Power transfer hinge or electric power transfer required.
Solenoid rated for continuous-duty operation with PS914-2RS (required power supply).

Functional options:

Electric latch retraction can be used in conjunction with FSA / FSE (Fail safe/Fail secure).

Security monitoring (DM, LM, RX, LK) features; EL feature is available on all 24/25 series standard device specifications.

Common application options:

Battery backup: For applications that require power even when power is lost the battery backup option will assure power to your EL device. For proper functionality use the PS914 power supply with the -BB option. Use suffix “-BB” for factory installed; example PS914-BB (see page 32 for more details).

Fire alarm: This function coordinates the electric latch retraction of one or two devices with the fire alarm. For proper functionality use the PS914 power supply with the -FA option. Use suffix “-FA” for factory installed; example PS914-FA (see page 32 for more details).

Auto operator: This function coordinates the electric latch retraction of one or two devices, and signals an auto-operator to open a door. Signaling the auto operator can be performed in two methods: by receiving a signal from a monitoring switch that the lock is unlatched, or upon expiration of a time delay triggered by an “AE” type input switch. For proper functionality use the PS914 power supply with the -4RL option. Use suffix “-4RL” for factory installed; example PS914-4RL (see page 32 for more details).

Time delay: A four zone controller with time delay provides four inputs and four outputs with the time delay. Time delay is field selectable from 0 to 75 seconds, in intervals of 5 seconds. For proper functionality use the PS914 power supply with the -4RL option. Use suffix “-4RL” for factory installed; example PS914-4RL (see page 32 for more details).

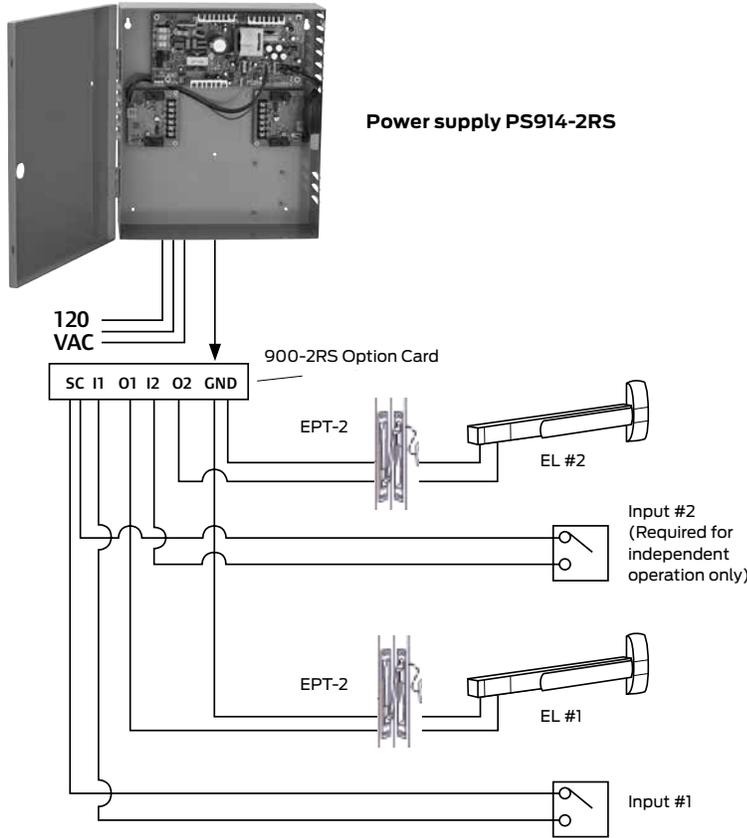
How to order:

To order the EL feature add “EL” prefix to device designation. (example: EL-25-R-EO)

ELectric latch retraction

Application and wiring / power transfer hinge

Application and wiring - Electric latch retraction (EL)



| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|---------|-----------|-------------|---------------------------------|------------------------------------|
| EL-25-R | 3' | 299 | 4" | 2' 9 ³ / ₈ " |
| | | 264 | 3 ⁷ / ₈ " | 2' 9 ⁵ / ₈ " |
| | | 1439 | 3 ¹ / ₄ " | 2' 9" |
| | | 1606 | 3 ⁵ / ₈ " | 2' 9 ³ / ₈ " |
| EL-25-R | 4' | 299 | 4" | 3' 3 ³ / ₄ " |
| | | 264 | 3 ⁷ / ₈ " | 3' 3 ⁵ / ₈ " |
| | | 1439 | 3 ³ / ₄ " | 3' 1 ¹ / ₂ " |
| | | 1606 | 3 ⁵ / ₈ " | 3' 3 ³ / ₈ " |
| EL-24-R | 3' | 299 | 3 ¹ / ₂ " | 2' 9 ³ / ₄ " |
| | | 264 | 3 ³ / ₈ " | 2' 9 ⁵ / ₈ " |
| | | 1439 | 2 ¹ / ₄ " | 2' 9" |
| | | 1606 | 2 ³ / ₄ " | 2' 9 ³ / ₈ " |
| EL-24-R | 4' | 299 | 3 ¹ / ₂ " | 3' 3 ³ / ₄ " |
| | | 264 | 3 ³ / ₈ " | 3' 3 ⁵ / ₈ " |
| | | 1439 | 2 ³ / ₄ " | 3' 3 ³ / ₈ " |
| | | 1606 | 2 ³ / ₄ " | 3' 3 ³ / ₈ " |
| EL-25-V | 3' | All | 3 ¹ / ₂ " | |
| EL-25-V | 4' | All | 3 ¹ / ₂ " | |
| EL-24-V | 3' | All | 2 ¹ / ₈ " | |
| EL-24-V | 4' | All | 2 ¹ / ₈ " | |
| EL-25-C | 3' | All | 3 ¹ / ₂ " | |
| EL-25-C | 4' | All | 3 ¹ / ₂ " | |
| EL-24-C | 3' | All | 2 ¹ / ₄ " | |
| EL-24-C | 4' | All | 2 ¹ / ₄ " | |
| EL-25-M | 3' | All | 4 ¹ / ₂ " | |
| EL-25-M | 4' | All | 4 ¹ / ₂ " | |

Power transfer hinge - electric latch retraction (EL)

An EPT provides a wiring path from the door to the frame. To run power from your power supply to your Falcon 24 or 25 EL device, an EPT can be utilized. Door and frame must be factory prepped.

Options

EPT-2: Used for two 18AWG wires with a max rating of 24VDC, 5A or 120 VAC NEC class 3.

| EPT can be used for: | EPT cannot be used for: |
|---|---|
| Door thickness - 1 ³ / ₄ " minimum | 1 ¹ / ₂ " offset pivots |
| Note: The following specifications only apply to a 1 ³ / ₄ " thick door | Larger than 6" butt hinges |
| 0-130 degree opening with up to 5 ¹ / ₄ " butt hinges | Pocket Pivots |
| 0-130 degree opening with up to 5 ¹ / ₄ " butt hinges | Swing Clear Hinges |
| 0-130 degree opening with up to 5 ¹ / ₄ " butt hinges | Center Hung Doors (center pivot) |
| 0-130 degree opening with up to 5 ¹ / ₄ " butt hinges | Balanced Door |

Delayed egress system components

For all 24 and 25 Series

The delayed egress system provides control for limited egress and high security areas which require accident hazard or fire exit hardware.

Delayed egress function

When the delayed egress system is armed, the mag lock(s) will remain secure against attempted override pressure and severe impacts. Ingress requires an operational trim, along with access control input (i.e. card reader, key switch, keypad). The system is required to be tied into local fire alarm system.



A complete delayed egress system requires the following components:

- DE5101 is used in delayed exit application and is ideal for controlled areas.
- Key switch operator
- Arm, disarm, reset and bypass the delayed egress system by the mortise cylinder on the dialogue box. (1-1/4" mortise cylinder sold separately.)
- LED status indicator
- Red LED indicates arm. Disarm and alarm status.
- Alarm horn
- Depression of the Falcon 24 or 25 RX device touchpad initiates a local alarm of 100 dB when armed.

Falcon 25 Series device with RX switch

PS902 Power supply

- **PS902** - The series PS902 power supply is the recommended power supply for use with the delayed egress system. The series PS902 power supply is designed for electric locking or monitoring on single or double door applications. The output power is field selectable for either 24 VDC@1 ampere or 12 VDC@2 ampere. Standard input 120 VAC@0.6 ampere and 240 VAC@3.0 ampere available. The terminal block will accept up to 14 gauge stranded wire (see page 32 for more information).

PS914 Power supply

- **PS914** - The series PS914 power supply can be safely used with the delayed egress system (see page 32 for more information).

Power transfer hinge or electric power transfer - See page 41 for more information.

Magnetic locks - Schlage electronics M420, M450 or M490 maintains UL listing.

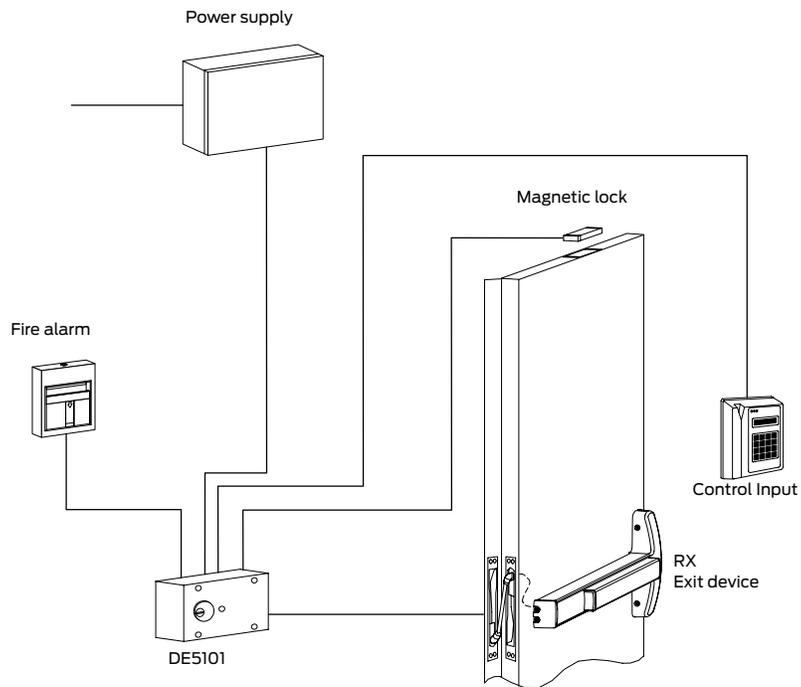
How to order:

All components above are sold separately. To order, specify each component to complete a delayed egress system for your application.

Application and wiring

Popular delayed egress diagram

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|--------|-----------|-------------|---------------------------------|------------------------------------|
| 25-R | 3' | 299 | 4" | 2' 7 ³ / ₈ " |
| | | 264 | 3 ⁷ / ₈ " | 2' 7 ³ / ₈ " |
| | | 1439 | 3 ¹ / ₄ " | 2' 6 ³ / ₄ " |
| | | 1606 | 3 ⁵ / ₈ " | 2' 7 ¹ / ₈ " |
| 25-R | 4' | 299 | 4" | 3' 1 ¹ / ₂ " |
| | | 264 | 3 ⁷ / ₈ " | 3' 1 ³ / ₈ " |
| | | 1439 | 3 ³ / ₄ " | 3' 1 ¹ / ₄ " |
| | | 1606 | 3 ⁵ / ₈ " | 3' 1 ¹ / ₈ " |
| 24-R | 3' | 299 | 3 ¹ / ₂ " | 2' 7 ¹ / ₂ " |
| | | 264 | 3 ³ / ₈ " | 2' 7 ³ / ₈ " |
| | | 1439 | 2 ¹ / ₄ " | 2' 6 ³ / ₄ " |
| | | 1606 | 2 ³ / ₄ " | 2' 7 ¹ / ₈ " |
| 24-R | 4' | 299 | 3 ¹ / ₂ " | 3' 1 ¹ / ₂ " |
| | | 264 | 3 ³ / ₈ " | 3' 1 ³ / ₈ " |
| | | 1439 | 2 ³ / ₄ " | 3' 1 ¹ / ₈ " |
| | | 1606 | 2 ³ / ₄ " | 3' 1 ¹ / ₈ " |
| 25-C | 3' | All | 3 ¹ / ₂ " | 2' 7 ¹ / ₈ " |
| 25-C | 4' | All | 3 ¹ / ₂ " | 3' 1 ¹ / ₈ " |
| 25-C | 3' | All | 2 ¹ / ₄ " | 2' 7 ³ / ₈ " |
| 25-C | 4' | All | 2 ¹ / ₄ " | 3' 1 ³ / ₈ " |
| 25-M | 3' | All | 4 ¹ / ₂ " | 2' 7 ¹ / ₂ " |
| 25-M | 4' | All | 4 ¹ / ₂ " | 3' 2" |



Electric lock/ unlock trim

Electric lock/ unlock trim (FSA/FSE) for 25 Series

The electric lock/unlock (FSA/FSE) feature allows the controlling of trim while still maintaining free egress at all times. The lock/unlock command can be controlled by a security system, fire alarm system, key switch, card reader, push button or touchpad.

FSA (Fail safe—unlocks when power is interrupted) can be used in areas requiring doors to be unlocked due to fire, power failure or emergency situations. (Examples: stairwells, hospitals, fire exits, etc.)

FSE (Fail secure—locks when power is interrupted) can be used in areas requiring doors to be locked for security reasons and only unlocked when energized by authorized personnel. (examples: banks, inner-office, etc.) With either feature, authorized personnel can gain access utilizing key by overriding or bypassing electric locking function.



Specifications

- Solenoid rated for continuous duty at 24V DC 0.4 amps.
- UL listed devices.
- Device channel is used as conduit on 25 Series devices.
- Power transfer (EPT-2) hinge 2-wire minimum rated 1/2 Amp.
- See page 35 for more information

Wire chart

| Length of wire run (ft.) | 24VDC 0.4 AMPS |
|--------------------------|-------------------|
| 0-500 | 18AWG |
| 501-700 | 16AWG |

How to order

To order FSA/FSE feature, add FSA or FSE prefix to device designation. (Example: FSA 25-R-L)

Note:

1. FSA/FSE can be used on all devices.
2. The FSA/FSE feature can be used in conjunction with EL (Electric latch retraction), EA (exit alarm) and security monitoring (DM, LM, RX).

Minimum power supply- PS902

- The series 902 power supply is the recommended power supply for use with an FSA or FSE trim. The series 902 power supply is also designed for electric locking or monitoring of single or double door applications.
- See page 32 for more information

Exit alarm

Exit alarm (EA) - for all 24 and 25 Series devices

The Exit alarm (EA) feature provides a battery powered exit alarm to allow for a simple and effective means of monitoring the use of exits while still maintaining means of egress (for code requirements). When the touchbar is depressed the alarm will sound continuously, indicating that the exit has been engaged. The exit alarm can only be reset by way of a standard 1 1/4" mortise cylinder with standard "A" cam (5/16" wide x 3/4" long). The design of the unit will allow the single 9V battery to last for at least six months (on standby mode).



Minimum door width required for standard devices

| Device | Door size | Door strike | Min stile (in) | Min door opening width |
|---------|-----------|-------------|----------------|------------------------|
| EA-25-R | 3' | 299 | 4" | 2' 9 1/4" |
| | | 264 | 3 7/8" | 2' 9 1/8" |
| | | 1439 | 3 1/4" | 2' 8 3/8" |
| | | 1606 | 3 5/8" | 2' 8 7/8" |
| EA-25-R | 4' | 299 | 4" | 3' 3 1/4" |
| | | 264 | 3 7/8" | 3' 3 1/8" |
| | | 1439 | 3 1/4" | 3' 3" |
| | | 1606 | 3 5/8" | 3' 2 7/8" |
| EA-24-R | 3' | 299 | 3 1/2" | 2' 9 1/4" |
| | | 264 | 3 3/8" | 2' 9 1/8" |
| | | 1439 | 2 1/4" | 2' 8 3/8" |
| | | 1606 | 2 3/4" | 2' 8 7/8" |
| EA-24-R | 4' | 299 | 3 1/2" | 3' 3 1/4" |
| | | 264 | 3 3/8" | 3' 3 1/8" |
| | | 1439 | 2 3/4" | 3' 3 7/8" |
| | | 1606 | 2 3/4" | 3' 3 7/8" |
| EA-25-V | 3' | All | 3 1/2" | 2' 8 7/8" |
| EA-25-V | 4' | All | 3 1/2" | 3' 2 7/8" |
| EA-24-V | 3' | All | 2 1/8" | 2' 8 7/8" |
| EA-24-V | 4' | All | 2 1/8" | 3' 2 7/8" |
| EA-25-C | 3' | All | 3 1/2" | 2' 8 7/8" |
| EA-25-C | 4' | All | 3 1/2" | 3' 2 7/8" |
| EA-24-C | 3' | All | 2 1/4" | 2' 9 1/8" |
| EA-24-C | 4' | All | 2 1/4" | 3' 3 1/8" |
| EA-25-M | 3' | All | 4 1/2" | 2' 9 1/4" |
| EA-25-M | 4' | All | 4 1/2" | 3' 3 1/4" |

Specifications

- Works with rim, mortise, concealed, surface vertical rod
- UL listed
- The EA feature can be used in conjunction with FSA/FSE (Fail safe/Fail secure) and security monitoring (DM, LM, RX) features.

Features and benefits

- 110 dB alarm
- 24 Volt hardwire option
- 9V Battery input
- External inhibit for card reader
- LED indication
 - Armed
 - Disarmed
 - Low battery
 - EAK retrofit kit available for your existing devices

How to order

To order EA feature add "EA" prefix to device designation. (example: EA-25-R-EO)

To order EAK (exit alarm kit) feature order "EAK" plus device length (3' or 4'), type of device (24 or 25 Series) and the finish of your existing device. (example: EAK-4', 24 Series, US10)
(For retrofit application)

Minimum power supply - PS902

The series PS902 power supply is the recommended power supply for use with the exit alarm (EA) option. The series PS902 power supply is designed for electric locking or monitoring on single or double door applications (see page 32 for more information).

Device monitoring

Device monitoring for most 24 and all 25 Series devices*

All of the monitoring features available from Falcon provide total flexibility and will interface with any security system. All monitoring switches are dry contact type and are contained within the device, allowing for tamper-resistant operation. Security monitoring features allow monitoring of devices, latches, authorized egress and locking levers. A key override option is available. All of the security monitoring features can be used in any combination with any other Falcon feature. Consult factory for special applications.

***DM, *LM, RX Monitoring**

- The DM (device monitor) feature monitors full latch projection. If the latchbolt is retracted by use of device, or someone tampers with the latchbolt, the switch is activated sending a signal to controlling areas. In devices with the deadlock feature, the deadlatch status is monitored.
- The LM (Latch monitor) feature monitors full latchbolt retraction. When the latchbolt is fully retracted a signal is sent indicating door (or device) opened status.
- The RX feature monitors the depression of the touch bar or crossbar. Activation of the switch indicates use of a door or that the door is in the dogged condition. This feature is especially useful when used to activate or shunt magnetic locking systems.
- *LM/DM not available on F-24-R.

How to order

To order any individual or combination of monitor feature(s) add the respective prefix(s) to device designation. (example: EL-RX-DM-25-V-L-DANE)

Key override option (KOR)

The KOR feature allows authorized personnel to override monitoring features on a door by use of a keyed 1 1/8" mortise cylinder with 5/16" wide x 3/4" long standard cam (mortise cylinder not supplied).

Activating KOR feature allows any feature to be disabled for daytime use or when desired by key holder. This is a maintained contact switch. KOR is especially useful for turning on or off magnetic locking systems and electric dogging control (at the door).

This feature is not available with EA feature, cylinder/standard dogging.

To order KOR feature add KOR prefix to device designation. (example: KOR-DM-24-R-TP)

Note: Use of these features may require a power transfer hinge (supplied by others) or additional wires in the power transfer hinge needed for application when combined with other electrified features.

Power supply



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

Note: PS906 can provide Class 2 rated outputs when used with 900-8P distribution board.

Features:

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

Certifications:

- UL 294 certified—the standard for access control
- Class 2 rated*
* Except PS906, output rating exceeds Class 2 power limits

Once power is converted to low voltage DC, the PS900

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

* PS906 can provide Class 2 rated outputs when used with 900-8P distribution board.

| | PS902 | PS904 | PS906 | PS914 |
|--|---------------|---------------|---------------|---------------|
| Number of connectors on power supply for the following: | 2 amps | 4 amps | 6 amps | 4 amps |
| Distribution boards | 1 | 2 | 3 | 2 |
| Battery back-up board | 1 | 1 | 1 | 1 |

Note: One fire alarm board can be connected directly to the PS902. If a fire alarm board is desired for the PS904, PS906 or PS914 it can be connected to a distribution board.

Applications:

The PS900 Series of power supplies works with many electrified devices including Falcon exit devices, electromagnetic locks, hardwired locks, electrified mechanical locks, electrified strikes and many other products.

Accessories:

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

Option boards:

900-4R: 4 relay controlled output board to power multiple devices.

900-4RL: 4 relay distribution board with logic is field configurable for time delay function, auto operator, security interlock.

900-8F: Provides 8 individually fuse-protected outputs, giving the flexibility to power multiple devices and provide another layer of protection.

900-FA: Emergency interface relay integrates with fire alarm and is used to cut power in case of emergency.

900-BB: Battery backup.

900-2RS: 2 relay EL panic device control board (PS914 only).

900-BBK: Battery backup kit includes two 7A/hr batteries and provides up to four hours of backup power when cycled every 5 minutes at full load.

Wire selection size/type

| Run length | EL device w/EPT or door loop |
|----------------|----------------------------------|
| 0-100 ft | 14 gauge standard wire |
| 101-200 ft | 12 gauge standard wire |
| Run length | EL device w/electric hinge/pivot |
| 0-75 ft | 14 gauge standard wire |
| 76-150 ft | 12 gauge standard wire |
| Wire selection | Switch wire size |
| 1200 ft max. | 16 gauge |

Electrical options summary

Electrical options matrix - 25 Series

| Option | Electric dogging | Electric latch retraction (EL) | Delayed egress | Electric lock /unlock trim (FSA/FSE) | Device monitor (DM) | Latch monitor (LM) | Authorized egress (RX) | Key override (KOR) | Exit alarm /hard wire (EA/ HWEA) |
|-------------------------------------|------------------|--------------------------------|----------------|--------------------------------------|---------------------|--------------------|------------------------|--------------------|----------------------------------|
| Electric latch retraction (EL) | X | — | V | V | V | V | V | X | X |
| Delayed egress | V | V | — | V | V | V | V | V | V |
| Electric lock/unlock trim (FSA/FSE) | V | V | V | — | V | V | V | V | V |
| Device monitor (DM) | V | V | V | V | — | V | V | V | V |
| Latch monitor (LM) | V | V | V | V | V | — | V | V | V |
| Request to exit (RX) | V | V | V | V | V | V | — | V | V |
| Key override (KOR) | X | X | V | V | V | V | V | — | X |
| Exit a larm (EA) | X | X | V | V | V | V | V | X | — |

Electrical options matrix - 24 Series

| Option | Electric dogging | Electric latch retraction (EL) | Delayed egress | Device monitor (DM) | Latch monitor (LM) | Authorized egress (RX) | Key override (KOR) | Exit alarm /hard wire (EA/ HWEA) |
|--------------------------------|------------------|--------------------------------|----------------|---------------------|--------------------|------------------------|--------------------|----------------------------------|
| Electric latch retraction (EL) | X | — | V | V | V | V | X | X |
| Delayed egress | V | V | — | V | V | V | V | V |
| Device monitor (DM) | V | V | V | — | V | V | V | V |
| Latch monitor (LM) | V | V | V | V | — | V | V | V |
| Request to exit (RX) | V | V | V | V | V | — | V | V |
| Key override (KOR) | X | X | V | V | V | V | — | X |
| Exit alarm (EA) | X | X | V | V | V | V | X | — |

*Not available on F-24-R

V = works with

X = doesn't work

How to order

25 Series

| | EL | F | 25 | V | L-DANE | US3 | 3' | LHR | LBR | SNB | WD |
|---|--|--------------|--------------|-------------|--------------|--|----|-----|-----|-----|----|
| Prefixes | | | | | | | | | | | |
| CD | Cylinder dogging | | | | | | | | | | |
| RX | Touchbar request to exit | | | | | | | | | | |
| DM | Latchbolt and device monitor switch | | | | | | | | | | |
| EA | Exit alarm | | | | | | | | | | |
| KOR | Key bypass switch | | | | | | | | | | |
| LD | Less dogging | | | | | | | | | | |
| LM | Latchbolt status switch | | | | | | | | | | |
| EL | Electric latch retraction | | | | | | | | | | |
| FSA | Electric lock or unlock trim-fail safe | | | | | | | | | | |
| FSE | Electric lock or unlock trim-fail secure | | | | | | | | | | |
| Rating | | | | | | | | | | | |
| F | Fire exit hardware | | | | | | | | | | |
| Blank | Panic exit hardware | | | | | | | | | | |
| Device series | | | | | | | | | | | |
| 25 | Touch bar device, wide stile | | | | | | | | | | |
| Device type | | | | | | | | | | | |
| R | Rim | | | | C-WDC | Concealed vertical rod wood door (20 or 90 min) | | | | | |
| V | Surface vertical rod | | | | M | Mortise | | | | | |
| C | Concealed vertical rod | | | | | | | | | | |
| Trim function (see trim pages for all functions) | | | | | | | | | | | |
| EO | Exit only | | | | K | Knob | | | | | |
| DT | Dummy trim | | | | L | Lever (Dane standard) | | | | | |
| NL | Night latch | | | | C | Cylinder prim plate | | | | | |
| NL-OP | Night latch optional pull | | | | 511-L | VR trim | | | | | |
| TP | Thumbpiece | | | | | | | | | | |
| Finish | | | | | | | | | | | |
| US3 | US10 | US26 | US32 | US28 | | | | | | | |
| US4 | US26D | US32D | 313AN | | | | | | | | |
| Door width | | | | | | | | | | | |
| 3' | Standard default | | | | | | | | | | |
| 4' | 2 1/4" Optional | | | | | | | | | | |
| Door thickness | | | | | | | | | | | |
| Handing | | | | | | | | | | | |
| RHR | Right hand reverse | | | | | | | | | | |
| LHR | Left hand reverse | | | | | | | | | | |
| Less bottom rod | | | | | | | | | | | |
| LBR | Less bottom rod | | | | | | | | | | |
| Accessories | | | | | | | | | | | |
| CYL | Cylinder | | | | SNB | Sex bolts | | | | | |
| SK | Shim kit | | | | AMS | All machine screws (for vertical and concealed only) | | | | | |
| Other miscellaneous door information | | | | | | | | | | | |
| HMD | Hollow metal door | | | | — | Door thickness | | | | | |
| HMF | Hollow metal frame | | | | — | Door undercut | | | | | |
| WD | Wood door | | | | — | Door label | | | | | |
| WDF | Wood frame | | | | — | Stile width | | | | | |
| ALD | Aluminum door | | | | — | Frame stop height | | | | | |
| ALF | Aluminum frame | | | | SGL | Single door | | | | | |
| SCDC | Steel channel door construction | | | | PR | Pair of doors swinging same direction | | | | | |
| — | Specify other door or frame | | | | | | | | | | |
| — | Material information | | | | | | | | | | |
| — | Door height | | | | | | | | | | |

24 Series

| | EL | F | 24 | V | L-DANE | US3 | 3' | LHR | LBR | SNB | WD |
|---|--|--------------|-------------|--------------|--------|-----------------------|--|-----|-----|-----|----|
| Prefixes | | | | | | | | | | | |
| CD | Cylinder dogging | | | | | | | | | | |
| RX | Touchbar request to exit | | | | | | | | | | |
| DL | Deadlocking | | | | | | | | | | |
| DM | Latchbolt and device monitor switch | | | | | | | | | | |
| EA | Exit alarm | | | | | | | | | | |
| KOR | Key bypass switch | | | | | | | | | | |
| LD | Less dogging | | | | | | | | | | |
| LM | Latchbolt status switch | | | | | | | | | | |
| EL | Electric latch retraction | | | | | | | | | | |
| Rating | | | | | | | | | | | |
| F | Fire exit hardware | | | | | | | | | | |
| Blank | Panic exit hardware | | | | | | | | | | |
| Device series | | | | | | | | | | | |
| 24 | Touch bar device, narrow stile | | | | | | | | | | |
| Device type | | | | | | | | | | | |
| R | Rim | | | | | C | Concealed vertical rod | | | | |
| V | Surface vertical rod | | | | | C-WDC | Concealed vertical rod wood door (20 or 90 min) | | | | |
| Trim function (see trim pages for all functions) | | | | | | | | | | | |
| EO | Exit only | | | | | K | Knob | | | | |
| DT | Dummy trim | | | | | L | Lever (Dane standard) | | | | |
| NL | Night latch | | | | | | | | | | |
| C | Cylinder trim less pull | | | | | | | | | | |
| Finish | | | | | | | | | | | |
| US3 | US10 | US26 | US32 | 313AN | | | | | | | |
| US4 | US26D | US32D | US28 | | | | | | | | |
| Door width | | | | | | | | | | | |
| 3' | Standard default | | | | | Door thickness | | | | | |
| 4' | | | | | | 1 3/4" Standard | | | | | |
| | | | | | | 2 1/4" Optional | | | | | |
| Handing | | | | | | | | | | | |
| RHR | Right hand reverse | | | | | | | | | | |
| LHR | Left hand reverse | | | | | | | | | | |
| Less bottom rod | | | | | | | | | | | |
| LBR | Less bottom rod | | | | | | | | | | |
| Accessories | | | | | | | | | | | |
| CYL | Cylinder | | | | | SNB | Sex bolts | | | | |
| SK | Shim kit | | | | | AMS | All machine screws (for vertical and concealed only) | | | | |
| Other miscellaneous door information | | | | | | | | | | | |
| HMD | Hollow metal door | | | | | — | Door thickness | | | | |
| HMF | Hollow metal frame | | | | | — | Door undercut | | | | |
| WD | Wood door | | | | | — | Door label | | | | |
| WDF | Wood frame | | | | | — | Stile width | | | | |
| ALD | Aluminum door | | | | | — | Frame stop height | | | | |
| ALF | Aluminum frame | | | | | SGL | Single door | | | | |
| SCDC | Steel channel door construction | | | | | PR | Pair of doors swinging same Direction | | | | |
| — | Specify other door or frame material information | | | | | | | | | | |
| — | Door height | | | | | | | | | | |

*Not available for F-24-R

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®.

For more, visit www.allegion.com

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