

FALCON®

Exit devices



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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 touch bars 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 exits a powerful choice no matter what your project.

Falcon exit devices

Architectural push pads



24 Series



25 Series

Commercial push pads



19 Series



1690/1790

Selling features				
	24 Series	25 Series	19 Series	1690/1790
	• Maximum flexibility in a variety of applications • Wide range of features and options • Patent pending deadlocking technology	• Maximum flexibility in a variety of applications • Wide range of features and options • Patent pending deadlocking technology	• Lowest cost most dependable light-duty exit • Large trim selection • Standard deadlocking	• Hurricane rated option • Wide range of electrical options • Durable design
	• Frequent traffic • Offices, churches, hospitality, retail, education, healthcare • Interior, exterior, new construction, retro-fit	• Frequent traffic • Offices, churches, hospitality, retail, education, healthcare • Interior, exterior, new construction, retro-fit	• Moderate traffic • Commercial, multi-family, office, retail • Interior, exterior, retro-fit	• Moderate traffic • Commercial, multi-family, office, retail • Interior, exterior, retro-fit
Device options	• Rim, SV, CV, M • 6 functions /9 finishes • 4 lever designs • 10-year warranty	• Rim, SV, CV, M • 6 functions /9 finishes • 4 lever designs • 10-year warranty	• Rim, SV • 7 functions /4 lever designs • 3 finishes • 10-year warranty	• CV = 1690/Rim = 1790 • 4 functions/7 finishes • 4 length options • 10-year warranty

Crossbars



1990



2090

Selling features		
	1990	2090
	• Classic industry look • Balanced appearance, dependable performance and economical pricing • Hardened steel latches • Adjustable strike to ensure safety, security and smooth operation	• 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
	• Light traffic • Commercial, multi-family, office, retail • Interior, exterior, retro-fit	• Light traffic • Commercial, multi-family, office, retail • Interior, exterior, retro-fit
Device options	• CV • 4 functions/10 finishes • 2 length options • 10-year warranty	• Rim • 4 functions/10 finishes • 2 length options • 10-year warranty

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 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

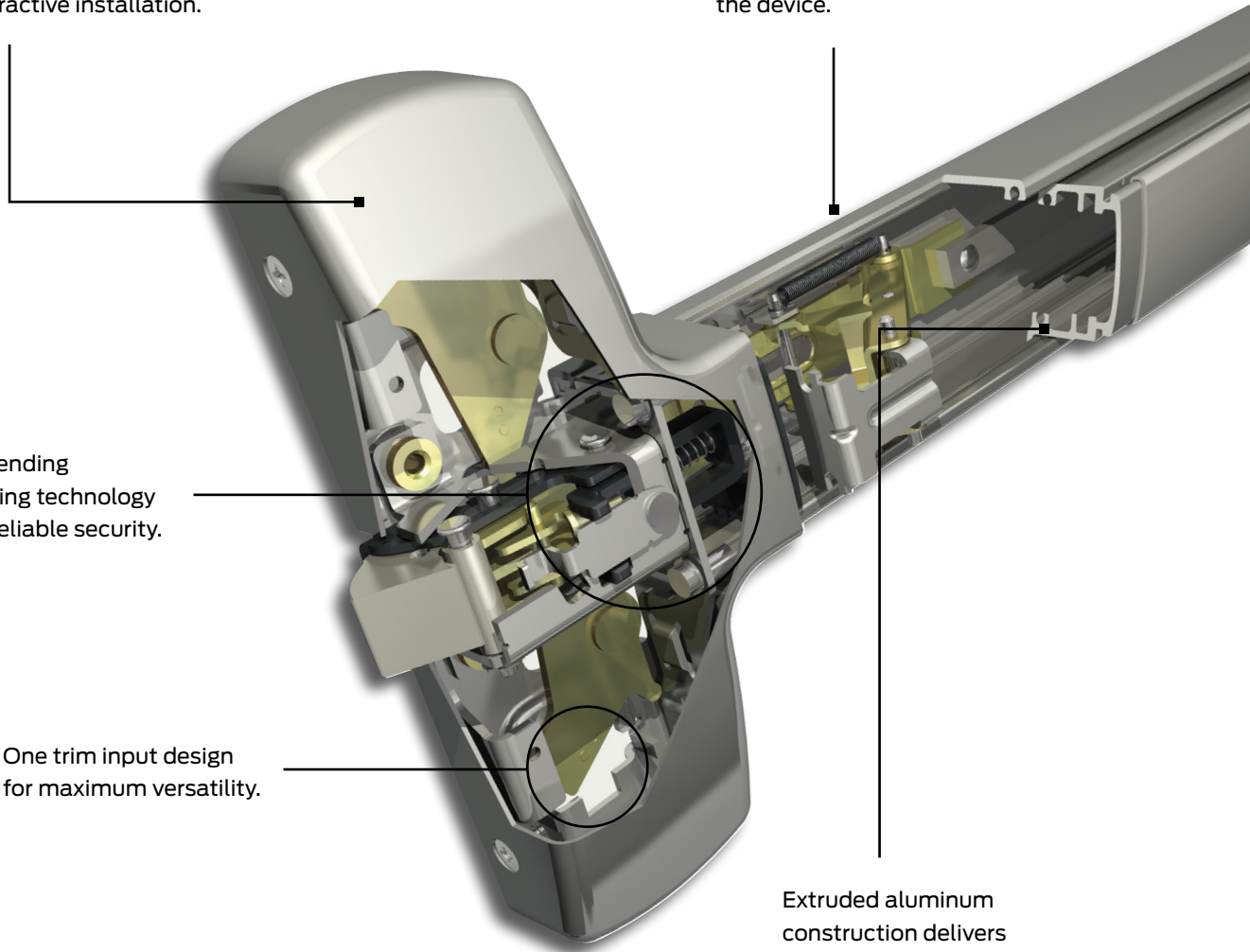
Streamlined design includes flush-end cap for clean lines and a more attractive installation.

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.



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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (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
Double cylinder – classroom security:	Available with L function for 25-R-L less dogging and F-25-R-L devices only. Specify handing. Cylinders sold separately. See price book for compatible cylinder options.
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. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available
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 grade 1 standards
Center case and 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

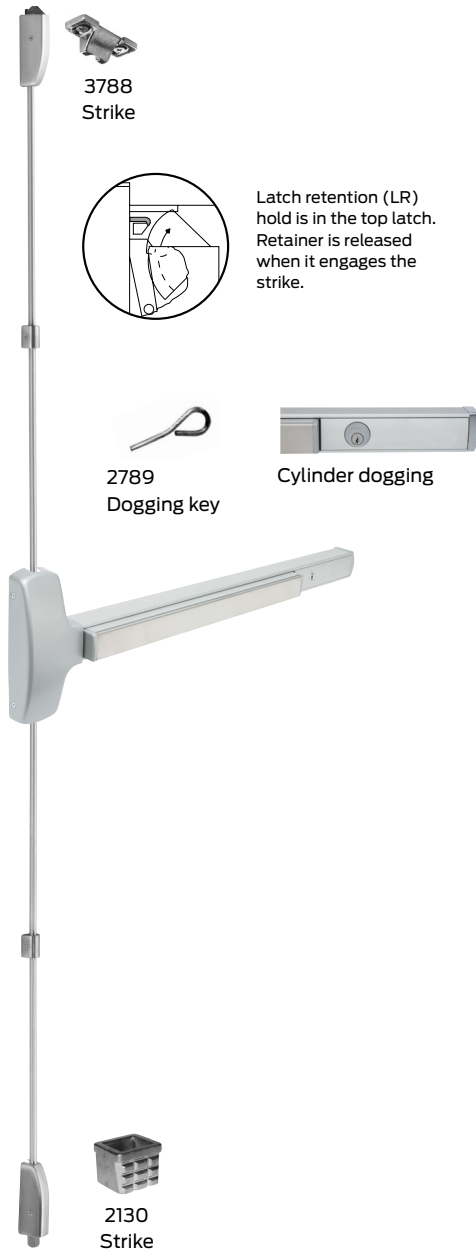
Hand:	Non-handed
UL:	"A" label (3 hr.); 4'0" x 8'0"; 8'0" x 8'0" with F-4023 mullion "B" label (1 1/2 hr.); 8'0" x 8'0"; with KRF4023
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	299F strike standard; 499F standard for pairs with mullion
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Double cylinder – classroom security:	Available with L function for 25-R -L less dogging and F-25-R-L devices only. Specify handing. Cylinders sold separately. See price book for compatible cylinder options.
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. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
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 grade 1 standards
Center case and 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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (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. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
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 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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	3788 top strike is surface applied 2130 bottom strike is mortised into floor
Latchbolt:	Top stainless steel $\frac{3}{4}$ " throw; bottom bolt, $\frac{1}{2}$ " throw
Deadlocking latchbolt:	Standard in top latch
Latch retention hold:	Standard with top latch
Stock sizes:	See chart below
Doors:	$1\frac{3}{4}$ " thick, wood or metal; specify thickness if other than $1\frac{3}{4}$ "
Projections:	$2\frac{3}{4}$ " maximum
Stile :	See chart below
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available
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 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. Auxiliary fire pin required per pair. "A" Label (3 Hr) - 8' x 8'; 90 min. same egress - 8' x 8'.
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.
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
F-25-V	3'	All	$3\frac{1}{2}$ "	$2'7\frac{1}{8}$ "
F-25-V	4'	All	$3\frac{1}{2}$ "	$3'1\frac{1}{8}$ "

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.



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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	1279 standard, F1280 and 1281 optional
Latchbolt:	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. Motorized electric latch retraction (fail secure only, not available with MEL), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
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 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 3/16".
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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (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. Motorized electric latch retraction (fail secure only, not available with MEL), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
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 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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	4188 mortised top, 2130 bottom standard, 4155
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. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
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 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.



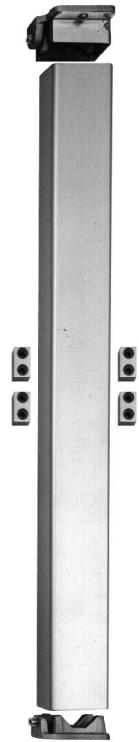
Specifications

Hand:	Field reversible
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)
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	4188 mortised top, 2130 bottom standard
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" minimum
Mounting height	40 1/4" from CL to finished floor
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
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 grade 1 standards
25-C-LBR:	Less bottom rod, auxiliary fire pin required per pair
Vertical rods:	Furnished to length based on 40 1/4" horizontal CL to finished floor and a 7'0" door. Variations from these standards must be specified when ordering.
Shim kits:	Consult factory

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

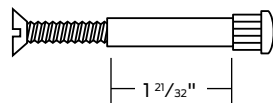
Strike	Installed with mullion	Min stile	B*
299	2923	4 1/8"	3"
299	4023	4 3/8"	3 1/4"
499-F	F-4023	4 1/2"	3 5/16"
264	2923	4"	2 7/8"
264	4023	4 1/4"	3 1/8"
1439	2923	3 7/8"	2 3/4"
1439	4023	4 1/8"	3"
1606	2923	4 1/4"	2 5/8"
1606	4023	4 1/2"	2 7/8"
1609	Surface 25-V	4"	2 3/8"

Cylinder reference

Device	Trim	Standard key cylinder	IC key cylinder
25 Series device	Cylinder dogging	985 - 1 1/8" Mortise (#4 cam)	C987 - 1 3/8" Mortise #5 cam (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 Mortise	Cylinder only (NL - OP)	* 986 - 1 1/4" Mortise (#4 cam)	** C987 - 1 3/8" Mortise (#5 cam)
25 Series trims	L, K, TP, NL	986 - 1 1/4" Mortise (#4 cam)	C987 - 1 3/8" Mortise (#5 cam)
25 Series trims concealed	718C, 718NL	986 - 1 1/4" Mortise cylinder	N/A
KR4023 mullion	N/A	986 - 1 1/4" Mortise cylinder (use Schlage B520-731 cam or similar)	C987 (#5 cam, 1/8" blocking ring)

*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 1/16"
(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.

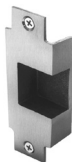


4188
Top strike for
(F)25-C.

For mortise lock devices

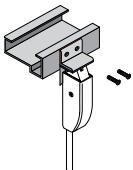


1279
Closed strike used on
single doors and on fire
exit hardware doors with
coordinator.



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.

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.

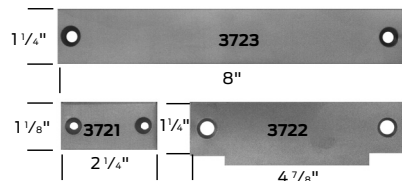


Concealed extension rods

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



Filler Plates



3721/ 3722/ 3723
Steel filler plates

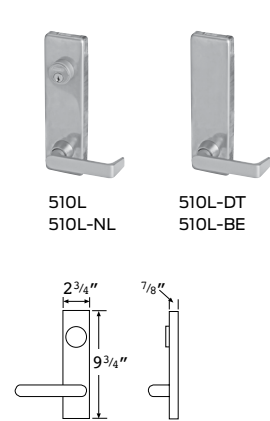
- 3721 Cylindrical lock front filler
- 3722 Strike filler - set no. SC for 161 cutout
- 3723 Mortise lock front filler
- 3722 Strike filler - set no. SM for 86 cutout

25 Series

Trim designs

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

Lever trims (510L)



Lever designs



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 lever designs including Avalon, Boardwalk, Broadway, Dane, Danish, Latitude, Longitude, Sutro, and Quantum

Pull trims (512)



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.

Delta (717)

Knob trims (513K)



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 and finish chart

Function

	Lock/ unlock	NL	DT	BE	FSA/ FSE
Lever (510)	510L	510L-NL	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

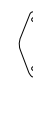
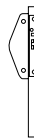
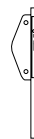
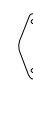
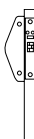
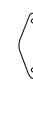
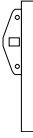
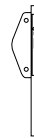
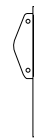
	Color	US number	BHMA number
	Brass, bright	US3	605
	Brass, satin	US4	606
	Bronze, satin	US10	612
	Bronze, aged	US11	643e*
	Nickel, satin	US15	619*
	Black, matte	US19	622*
	Chromium, bright	US26	625
	Chromium, satin	US26D	626
	Anodized aluminum	US28	628
	Stainless Steel, bright	US32	629
	Stainless Steel, satin	US32D	630
	Anodized duranodic	313AN	710

*Available on select devices and trims

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) EO (01) Exit only, no trim.	(F)-25-R  25-R-EO	(F)-25-V  25-V-EO	(F)-25-M  25-M-EO	(F)-25-C  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) (03) Entrance by knob or lever when latchbolt is retracted by key. Lever/knob is rigid. 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

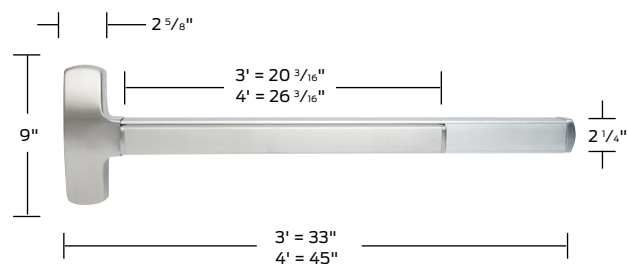
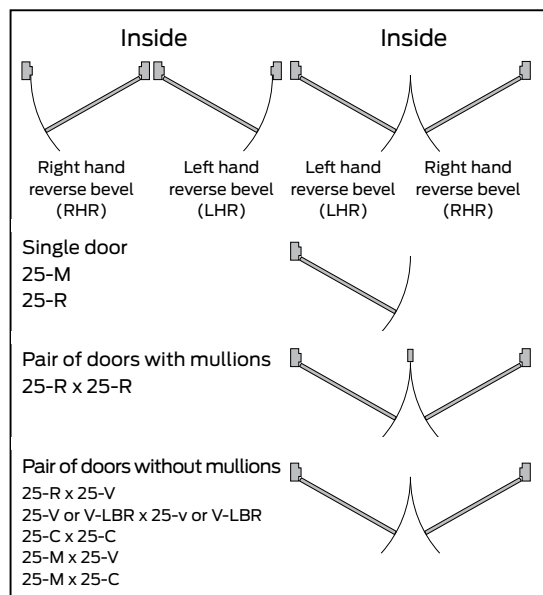
Label doors

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 $1\frac{3}{4}$ " doors standard. Specify door thickness if other than $1\frac{3}{4}$ ".

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.



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"
24-R	4'	299 x 2923	3 1/2"	3' 1 1/2"
		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"

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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	299F strike standard. See page 27 for optional strikes.
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
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. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
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 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

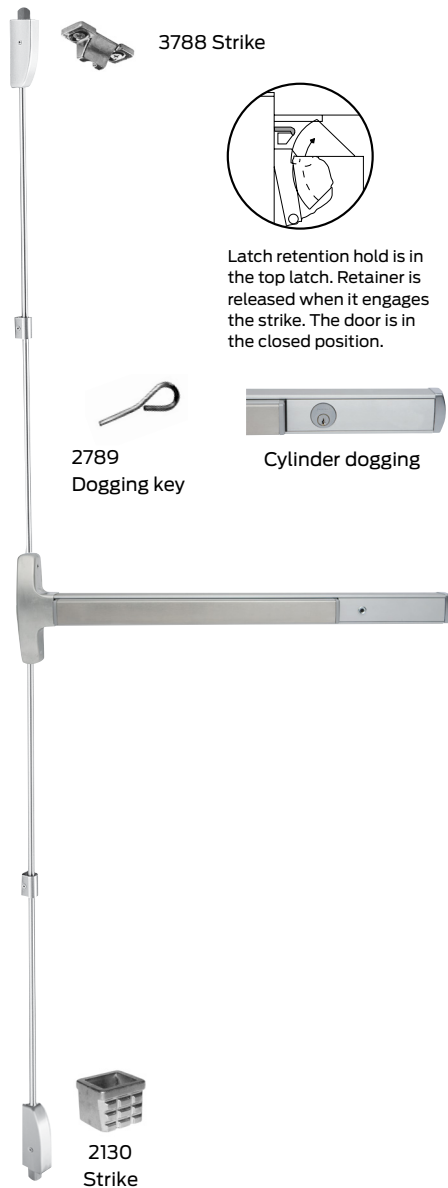
Hand:	Non-handed
UL:	"B" label (1 1/2 hr.); 4'0" x 8'0"
Functions	F-24-REO (Exit only) has all functions built in. Order trim with the device, or add it later. (see trim selection chart on page 29)
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (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. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
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 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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (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:	2 $\frac{1}{8}$ " minimum when used in pairs
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
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

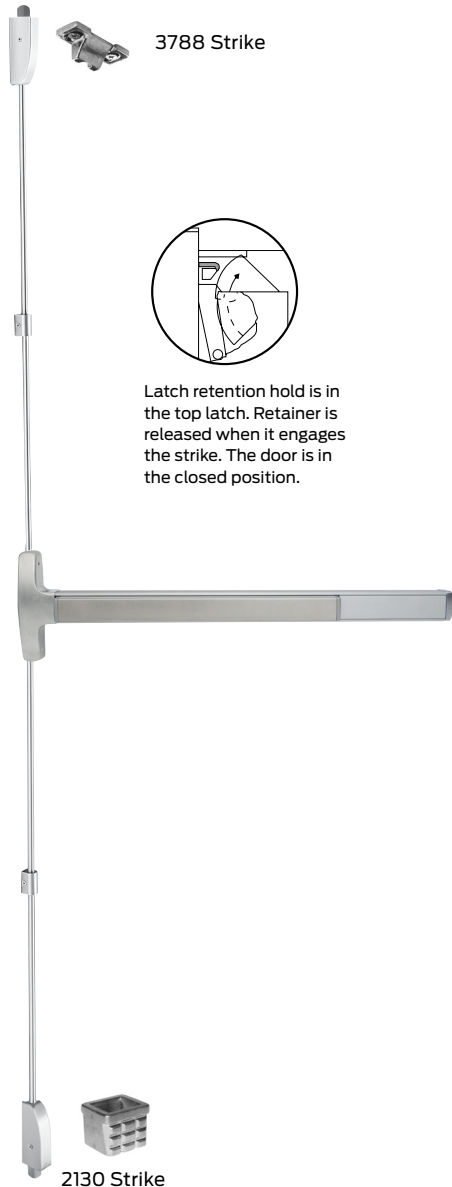
Device	Door size	Door strike	Min stile (in)	Min door opening width
24-V	3'	All	2 $\frac{1}{8}$ "	2' 7 $\frac{1}{4}$ "
24-V	4'	All	2 $\frac{1}{8}$ "	3' 1 $\frac{1}{4}$ "

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.



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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (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. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
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 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. Auxiliary fire pin required per pair. "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

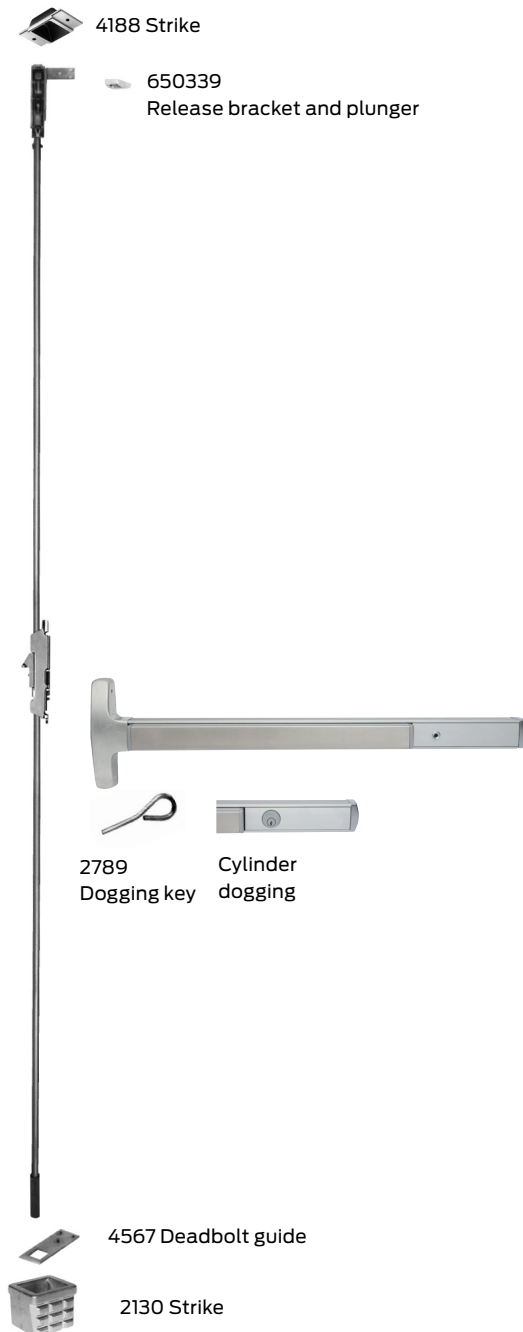
Device	Door size	Door strike	Min stile (in)	Min door opening width
F-24-V	3'	All	$2\frac{1}{8}$ "	$2'7\frac{1}{4}$ "
F-24-V	4'	All	$2\frac{1}{8}$ "	$3'1\frac{1}{4}$ "

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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (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. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
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 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.



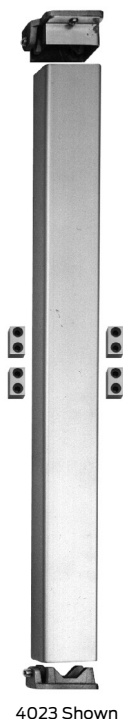
Specifications

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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (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:	3 5/8" minimum when used in pairs (6" minimum on wood doors)
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
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 grade 1 standards
F-24-C-LBR	Less bottom rod concealed vertical device. Auxiliary fire pin required per pair. "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	3 5/8" (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



Removable mullion

- The 2923, 4023, KR4023 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 or the 4023 mullion.
- Strikes are not furnished with the mullion. Please see page 27 for strike information.
- Mullions may be cut on the job for doors under stock lengths.

Mullion features

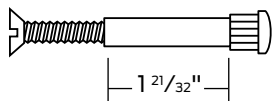
- Mullion fittings – ductile iron
- 4023 – 2" x 3" x height
- KR4023 cylinder removable mullion – 2" x 3" x height and uses 1 1/4" mortise cylinder not furnished
- 2923 mullion – 1 1/2" x 2 1/2" x height
- 423 mullion – T shape (1" on latch edge) supplied with 4396 adjustable strike
- Prime coat only
- 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"

Cylinder reference

Device	Trim	Standard key cylinder	IC key cylinder
24 Series device	Cylinder dogging	985 - 1 1/8" Mortise (#4 cam)	C987 - 1 3/8" Mortise #5 cam (Blocking ring plus security collar must equal 1/4" thick)
24 Series trims	L, K	986 - Mortise (#4 cam)	C987 - Mortise cylinder
24 Series trims	NL - Rim and surface vertical 718C, 718NL	951- Rim cylinder	C953 - Rim cylinder
24 Series trims	Concealed 718C, 718NL	986 - 1 1/4" Mortise (#4 cam) C (Schlage B520-731 cam or similar must be used)	N/A

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
2 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.

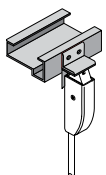


4155
Optional strike.
Panic device only.



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

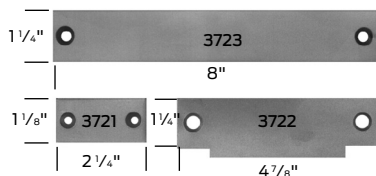
Extension rods are
available in 12", 24"
and 36" lengths in
all finishes. Both
ends tapped and
all-thread included
as connector.



Concealed extension rods

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

Filler plates



3721/3722/3723

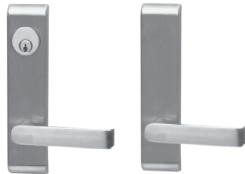
Steel filler plates

- 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

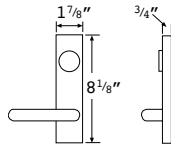
Lever trims (712L)



712L
712L/NL



712L/DT
712L/BE



Lever designs



Avalon (AVA)
Projection 3 1/4"



Quantum (QUA)
Projection 3 1/4"



Dane (DAN)
Projection 3"



Broadway (BRW)
Projection 3 1/5"



Boardwalk (BRK)
Projection 3 1/5"



Danish (DSH)
Projection 2 9/10"



Latitude (LAT)
Projection 3 1/10"



Longitude (LON)
Projection 3 1/10"



Sutro (SUT)
Projection 3 1/4"

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 11/16"
Pull: 6 1/4" C x C
Projection: 2 1/4"

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.

Delta trims



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 and 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 and finish chart

Function

	Lock/ unlock	NL	DT	BE	NLOP
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.

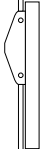
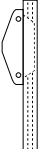
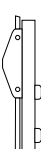
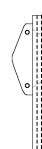
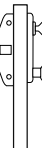
24 Series finishes

	Color	US number	BHMA number
	Brass, bright	US3	605
	Brass, satin	US4	606
	Bronze, satin	US10	612
	Bronze, aged	US11	643e*
	Nickel, satin	US15	619*
	Black, matte	US19	622*
	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

*Available on select devices and trims

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

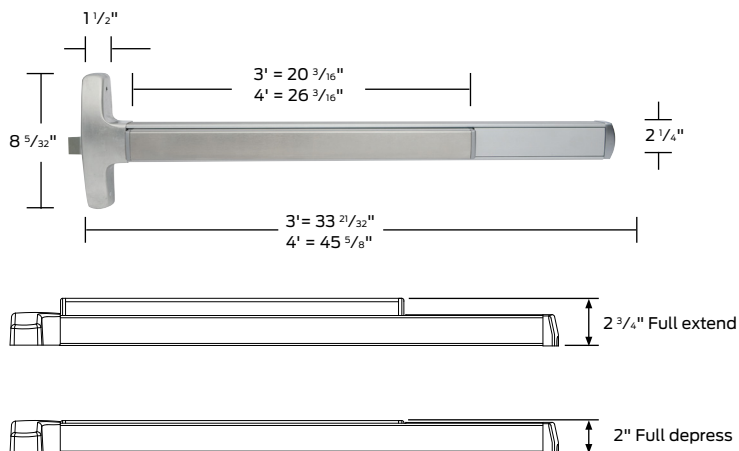
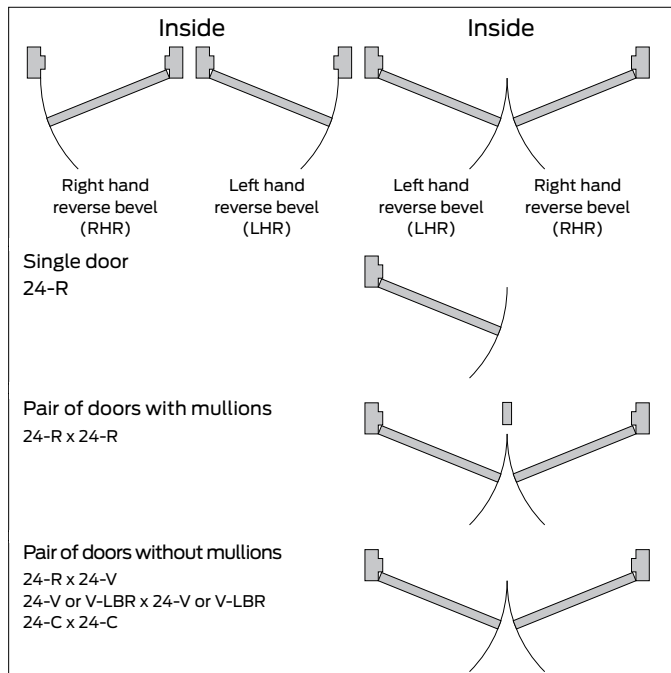
Label doors

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 $1\frac{3}{4}" - 3'0" \times 7'0"$ doors standard. Specify door thickness if other than $1\frac{3}{4}"$.

Door application chart



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

Motorized electric latch retraction

Motorized electric latch retraction for 24 and 25 Series devices

Motorized electric latch retraction (MEL) provides energy efficient electronic control of an exit device for an affordable around the door solution. The MEL option is Falcon's solution of choice for multifamily and commercial real estate facilities where cost competitive electromechanical latch retraction is desired. It is available on most Falcon 24 and 25 Series exit devices (not available for mortise 25-M or F-25-M).

These devices always provide mechanical egress. Motorized electric latch retraction can be used with credential readers to unlatch doors momentarily for authorized users, or it can be incorporated with systems to retract latches for extended periods of time to allow free entry. This is a convenient alternative to mechanical dogging. Doors with automatic operators also may use exit devices with electric latch retraction.

The MEL option is available on panic and fire rated devices. Because fire exit hardware must be self latching, an automatic fire alarm system must be incorporated to drop power to fire rated MEL devices in case of fire.

Features and benefits

- MEL option available on 24 and 25 Series exit devices, except 25-M (mortise)
- Energy efficient motorized latch retraction enables longer wire runs and the use of a standard Schlage power supply with option board (see page 33)
- Modular design allows for a simplified installation of the available MEL Conversion kit to existing mechanical Falcon 24 or 25 exit devices
- On-board installation and troubleshooting diagnostics built into the motor assembly
- Self-calibrating motor assembly
- Pushbar is pulled in electronically when dogged
- Vandal resistant – detects and responds to events of attack and tampering



MEL system requirements

The MEL has a low inrush current = 1.0 amps, so it can be used with standard Schlage power supplies. When powering multiple components, verify that the amperage requirement of all components combined does not exceed the power supply output rating.

- The MEL device is compatible with the following equipment: PS900 Series power supplies - PS902, 904, 906, 914; 900 Series Option Boards - 900-2RS, 900-4R and 900-4RL
- A power transfer (EPT, electrified hinge, or door loop) is required and sold separately

Compatible options

- Security monitoring (DM, LM, RX)
- Fail Safe/Fail Secure electric trim (FSA/FSE)

How to order:

- To order the MEL feature add "MEL" prefix to device designation (example: MEL-25-R-EO)¹
- To order the MEL feature with Allegion Connect, add "MEL" prefix and "CON" suffix to device designation
- To order the MEL conversion kit, please specify finish with part number (see BHMA Finish codes)²

1. Mechanical dogging is not an option with MEL.

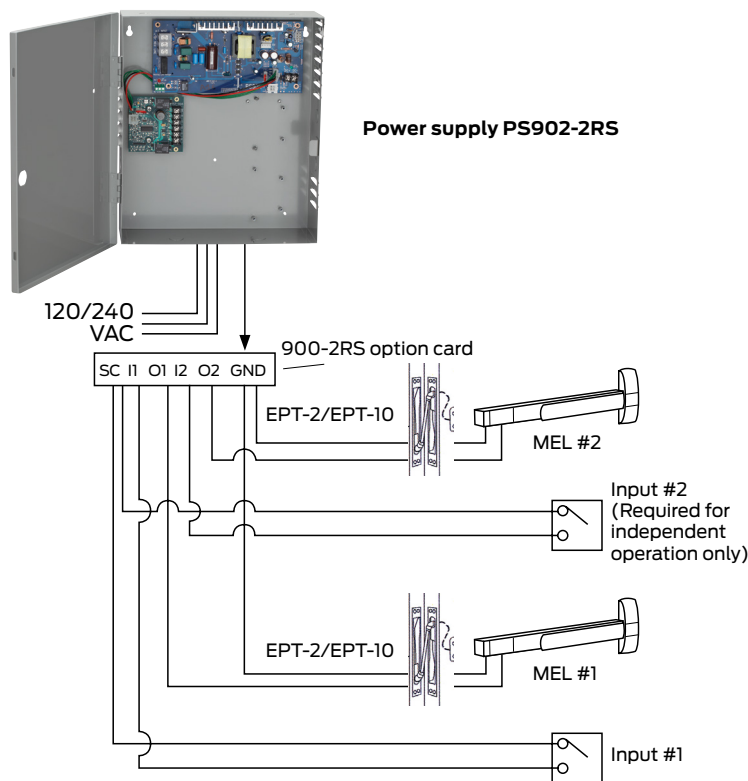
2. MEL kits may not be used to convert an EL device. MEL conversion kits are only compatible with mechanical Falcon 24 and 25 series exit devices.

Model no.	Description	Part number	Part number with Allegion Connect (-CON)
25-MELK-3	25 Motorized electric latch retraction kit 3'	47266630	47266630
25-MELK-4	25 Motorized electric latch retraction kit 4'	47266631	47266631
24-MELK-3	24 Motorized electric latch retraction kit 3'	47266632	47266632
24-MELK-4	24 Motorized electric latch retraction kit 4'	47266633	47266633

Motorized electric latch retraction

Application and wiring

Popular application and wiring - motorized electric latch retraction (MEL)



Popular application shown above.
See page 39 for other power supply details.

Device	Door size	Door strike	Minimum door opening width (Add 3.5" to standard)
MEL-24-R	3'	299	2' 11"
		264	2' 10 ⁷ / ₈ "
		1439	2' 10 ¹ / ₄ "
		1606	2' 10 ⁵ / ₈ "
MEL-24-R	4'	299	3' 5"
		264	3' 4 ⁷ / ₈ "
		1439	3' 4 ¹ / ₄ "
		1606	3' 4 ⁵ / ₈ "
MEL-24-C	3'	All	2' 10 ⁵ / ₈ "
MEL-24-C	4'	All	3' 4 ⁵ / ₈ "
MEL-24-V	3'	All	2' 10 ⁵ / ₈ "
MEL-24-V	4'	All	3' 4 ⁵ / ₈ "
MEL-25-R	3'	299	2' 11"
		264	2' 10 ⁷ / ₈ "
		1439	2' 10 ¹ / ₄ "
		1606	2' 10 ⁵ / ₈ "
MEL-25-R	4'	299	3' 5"
		264	3' 4 ⁷ / ₈ "
		1439	3' 4 ¹ / ₄ "
		1606	3' 4 ⁵ / ₈ "
MEL-25-C	3'	All	2' 10 ⁵ / ₈ "
MEL-25-C	4'	All	3' 4 ⁵ / ₈ "
MEL-25-V	3'	All	2' 10 ⁵ / ₈ "
MEL-25-V	4'	All	3' 4 ⁵ / ₈ "

Power transfer - motorized electric latch retraction (MEL)

A power transfer (EPT, electrified hinge, door loop) provides a wiring path from the door to the frame. If an EPT (Electric Power Transfer) is utilized, the door and frame must be factory prepped.

EPT options

- EPT-2: Two 18AWG wires with a max rating of 24VDC, 5A or 120 VAC NEC class 3
- EPT-10: Ten 24AWG wires with a max rating of 24VDC, 1A

EPT can be used for:	EPT cannot be used for:
Door thickness - 1 ³ / ₄ " minimum	1 ¹ / ₂ " offset pivots
0-180 degree opening with up to 5" butt hinges ¹	Larger than 6" butt hinges
0-130 degree opening with up to 5 ¹ / ₂ " butt hinges ¹	Pocket pivots
0-110 degree opening with up to 6" butt hinges ¹	Swing clear hinges
0-180 degree opening with up to 3 ³ / ₄ " offset pivots ¹	Center hung doors (center pivot)
	Balanced door

1. Specifications only apply to a 1 ³/₄" thick door.

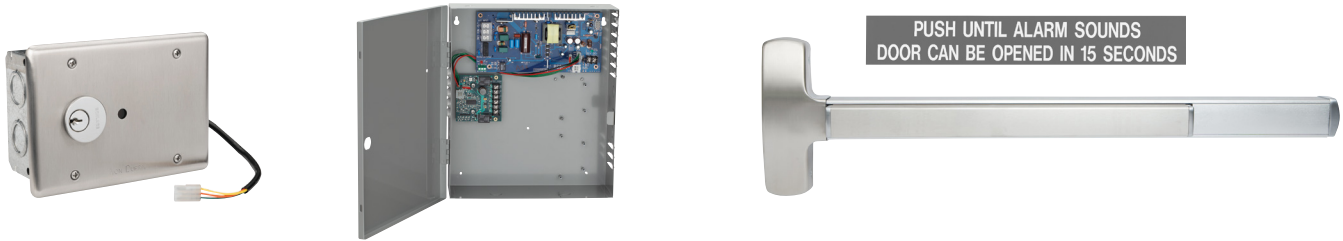
Delayed egress system components

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:

- DE5300 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.

Power supply

- **PS900 Series** - A PS900 Series power supply can be safely used with the delayed egress system (see page 39 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.

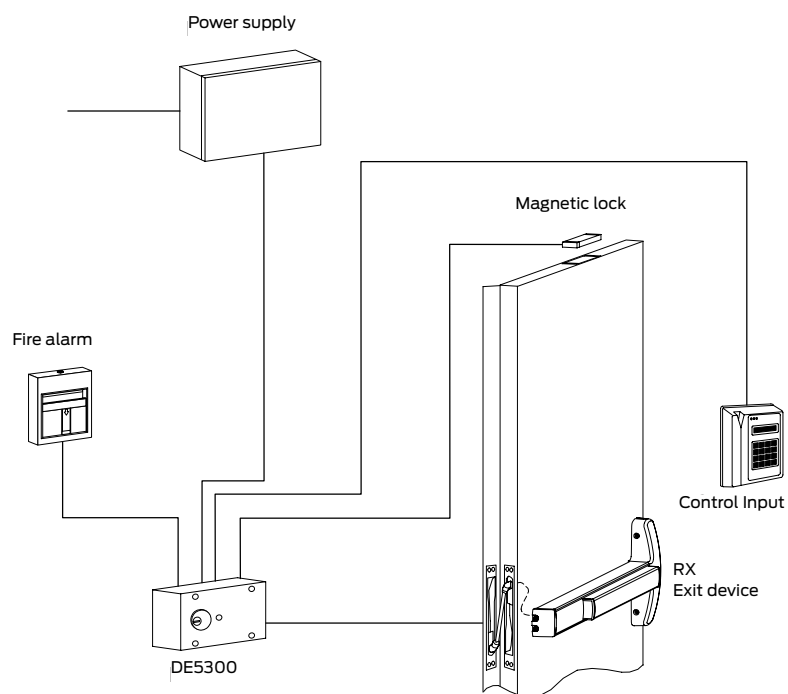
Application and wiring

Popular delayed egress diagram

Minimum door opening sizes

(Jamb to jamb, or for double door- jamb to center of opening)

Device	Door size	Door strike	DE5300 for standard devices
24-R	3'	299	2' 7 1/2"
		264	2' 7 3/8"
		1439	2' 6 3/4"
		1606	2' 7 1/8"
24-R	4'	299	3' 1 1/2"
		264	3' 1 3/8"
		1439	3' 1 1/8"
		1606	3' 1 1/8"
24-C	3'	All	2' 7 1/8"
24-C	4'	All	3' 1 1/8"
25-R	3'	299	2' 7 3/4"
		264	2' 7 3/8"
		1439	2' 6 3/4"
		1606	2' 7 1/8"
25-R	4'	299	3' 1 1/2"
		264	3' 1 3/8"
		1439	3' 1 1/8"
		1606	3' 1 1/8"
25-C	3'	All	2' 7 3/8"
25-C	4'	All	3' 1 3/8"
25-M	3'	All	2' 7 1/2"
25-M	4'	All	3' 2"



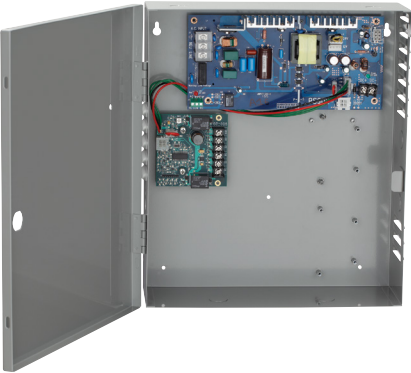
Electric lock or unlock trim

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

The electric lock or unlock (FSA/FSE) feature allows the controlling of trim while still maintaining free egress at all times. The lock or 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

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 MEL (Motorized 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 39 for more information

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

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 door opening width
EA-24-R	3'	299	2' 9 1/4"
		264	2' 9 1/8"
		1439	2' 8 3/8"
		1606	2' 8 7/8"
EA-24-R	4'	299	3' 3 1/4"
		264	3' 3 1/8"
		1439	3' 3 7/8"
		1606	3' 3 7/8"
EA-24-C	3'	All	2' 9 1/8"
EA-24-C	4'	All	3' 3 1/8"
EA-24-V	3'	All	2' 8 7/8"
EA-24-V	4'	All	3' 2 7/8"
EA-25-R	3'	299	2' 9 1/4"
		264	2' 9 1/8"
		1439	2' 8 3/8"
		1606	2' 8 7/8"
EA-25-R	4'	299	3' 3 1/4"
		264	3' 3 1/8"
		1439	3' 3 7/8"
		1606	3' 3 7/8"
EA-25-C	3'	All	2' 8 7/8"
EA-25-C	4'	All	3' 2 7/8"
EA-25-M	3'	All	2' 9 1/4"
EA-25-M	4'	All	3' 3 1/4"
EA-25-V	3'	All	2' 8 7/8"
EA-25-V	4'	All	3' 2 7/8"

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 trim) 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, 612) (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 inrush current for powering solenoid-driven 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 MEL or EL panic device control board

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	MEL device w/EPT, electric hinge, door loop (one way)
200'	18 AWG
320'	16 AWG
500'	14 AWG
800'	12 AWG

Electrical options summary

Electrical options matrix - 25 Series

Option	Electric dogging	Motorized electric latch retraction (MEL)	Delayed egress	Electric lock /unlock trim (FSA/FSE)	Device monitor (DM)	Latch monitor (LM)	Authorized egress (RX)	Key override (KOR)	Exit alarm (EA)
Motorized electric latch retraction (MEL)	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 alarm (EA)	X	X	V	V	V	V	V	X	—

Electrical options matrix - 24 Series

Option	Electric dogging	Motorized electric latch retraction (MEL)	Delayed egress	Device monitor (DM)	Latch monitor (LM)	Authorized egress (RX)	Key override (KOR)	Exit alarm (EA)
Motorized electric latch retraction (MEL)	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 24-R/F-24-R.

V = Works with
X = Doesn't work

UL Listed fire exit hardware

Label and opening size - 25 Series

Check with door manufacturers to confirm listing compatibility.

Exit device	Door material	Single door	Double door					
			With F-4023 mullion	With KR-F-4023 mullion	V x V same direction	V x FB (Inactive) same direction	V x Mortise same direction	V x V double egress
F-25-R	Metal	3 Hour 4' x 8'	3 Hour 8' x 8'	90 Min 8' x 8' (with 499F strike)	—	—	—	—
F-25-V	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
F-25-V	Composite (Wood or Plastic covered)	—	—	—	90 Min 8' x 10'	90 Min 8' x 10'	—	90 Min 8' x 10'
F-25-V-LBR-F	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
F-25-V-LBR-F*	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-25-V-LBR-F*	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-25-C	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
F-25-C -LBR-F	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
F-25-C-WDC-LBR-F*	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-25-C-WDC-LBR-F*	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-25-M	Metal	3 Hour 4' x 10'	—	—	—	—	3 Hour 8' x 10'	—
F-25-M	Composite (Wood or Plastic covered)	90 Min 4' x 10'	—	—	—	—	90 Min 8' x 10'	—

*Not listed for Canada.

UL Listed fire exit hardware

Label and opening size - 24 Series

Check with door manufacturers to confirm listing compatibility.

Exit device	Door material	Single door	Double door					
			With F-4023 mullion	With KR-F-4023 mullion	V x V same direction	V x FB (Inactive) same direction	V x Mortise same direction	V x V double egress
F-24-R	Metal	90 Min 4' x 8'			—	—	—	—
F-24-V	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
F-24-V	Composite (Wood or Plastic covered)	—	—	—	90 Min 8' x 10'	90 Min 8' x 10'		90 Min 8' x 10'
F-24-V-LBR-F	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
F-24-V-LBR-F*	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-24-V-LBR-F*	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-24-C	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
F-24-C -LBR-F	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
F-24-C-WDC-LBR-F*	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-24-C-WDC-LBR-F*	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'

*Not listed for Canada.

How to order

25 Series

		MEL	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											
MEL	Motorized 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											
V	Surface vertical rod											
C	Concealed vertical rod											
					C-WDC	Concealed vertical rod wood door (20 or 90 min.)						
					M	Mortise						
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												
605	612	622	626	629	710							
606	619	625	628	630								
Door width												
3'	Standard default											
4'												
Door thickness												
	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											
SK	Shim kit											
					SNB	Sex bolts						
					AMS	All machine screws (for vertical and concealed only)						
Other miscellaneous door information												
HMD	Hollow metal door	—										
HMF	Hollow metal frame	—										
WD	Wood door	—										
WDF	Wood frame	—										
ALD	Aluminum door	—										
ALF	Aluminum frame	—										
SCDC	Steel channel door construction	SGL										
—	Specify other door or frame	PR										
—	Material information											
—	Door height											

24 Series

*Not available for F-24-R

How to order

Trim

		510	L	R	US26D	LHR	SUTRO	FSE	CYL
24 Series	25 Series								
711	510								
712	511								
715	512								
717	513								
718	717								
	718								
Trim function (see trim pages for all functions)									
EO	Exit only								
DT	Dummy trim								
NL	Night latch								
C	Cylinder trim less pull								
TP	Thumbpiece								
K	Knob								
L	Lever (Dane standard)								
KIL	Key in lever								
TL	Thumb lever								
Device type									
R	Rim								
V	Surface vertical rod								
C	Concealed vertical rod (includes WDC)								
M	Mortise								
Finish									
605	612	619	625	629	689				
606	613	622	626	630	695				
Handing									
RHR	Right hand reverse								
LHR	Left hand reverse								
Lever style									
Dane (DAN)									
Sutro (SUT)									
Quantum (QUA)									
Avalon (AVA)									
Boardwalk (BRK)									
Broadway (BRW)									
Danish (DSH)									
Latitude (LAT)									
Longitude (LON)									
Other miscellaneous door information									
FSA	Electric Lock or Unlock-Fail Safe (FSA device required)								
FSE	Electric Lock or Unlock-Fail Secure (FSE device required)								
CON	Allegion Connect								
Accessories									
CYL	Cylinder								
KD	Cylinder keyed different								
Door thickness									
Specify door thickness other than 1 3/4"									

1690 Concealed vertical rod touchbar device

The design of the 1690 is ideal for demanding, moderate-traffic applications. The vertical rods and latch mechanisms are concealed in the vertical door stile, ensuring trouble-free operation. Cast metal cover plates and end caps hold up to rigorous use. A quick, single-point dogging feature in the housing deactivates the device, permitting unrestricted traffic flow. The 1690 may also be used to retrofit a 1990 Series crossbar device.

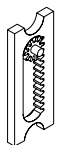


Length	Minimum door size (non-EL)	Minimum door size (EL)
30"	24"	28 1/2"
36"	30"	34 1/2"
42"	36"	40 1/2"
48"	42"	46 1/2"

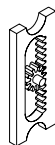


Positioning retractor as shown for NL or HB functions.

Install retractor as shown below for both RHR and LHR doors; this makes all keys function in the same direction.



Hold back (HB)



Night latch (NL)

Specifications

Hand	Field reversible, non-handed
Functions	See trim selection chart on this page.
Finishes:	628, 710, 711, 605, 612, 625, 626 Centercase and end cap are powder-coated black only.
Strikes	PB48 top
Latches	Standard top - SU latch Standard bottom - hex bottom bolt Optional top - ES - electric strike top latch, device must be less bottom rod (LBR). Optional bottom - RL - rod bottom latch - PL - pullman bottom latch
Dogging feature	Hex key dogging standard, except EL where must use hold back feature on outside cylinder.
Cylinder	Rim, night latch (NL) or hold back (HB) feature available. Field selectable
Sizes	30", 36", 42", and 48"
Doors	1 3/4" thick metal doors, specify if other*
Projections	3 3/8" in neutral position, 2 3/8" in dogged position; Pushbar height is 2 1/2"
Stile	1 3/4" minimum
Electric functions	MEL - motorized electric latch retraction, requires PS900 series power supply; RX - request to exit switch, monitors pushpad OSPTD switch
Fasteners	All machine screw mounting. Device mounting fasteners are concealed, latch fasteners are exposed to egress side.
End caps	Black powder-coated metal end caps
Vertical rods	7' standard, extension rods available up to 10' Rod extension kits available.
ANSI	Certified ANSI A156.3 grade 1 standards
Hurricane	1690 devices are used for hurricane rated door openings. Consult door manufacturer's listing.

Model	Trim package	Type	Function
1690	No outside trim	6	01
1691	Pull only (9970)	6	02
1692	Cylinder only	6	03/04
1694	Pull and cylinder	6	02/03/04

* 9970 is for use on HM and Alum doors only. Not for use on wood doors.

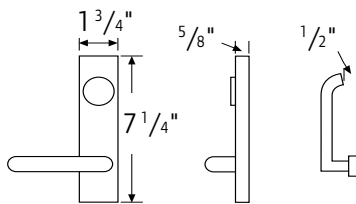
1790 Rim touchbar device

The 1790 rim device is typically used in applications where maintenance is a concern because the rim device has fewer parts and pieces than current exit devices. The result is less maintenance and adjustment. The streamlined design has no openings for chains, reducing the risk for code infringements and offering increased building security by eliminating the possibility of tampering and forced entry through the use of coat hangers and other tools. The 1790 may also be used to retrofit a 2090 series crossbar device.



Length	Minimum door size (non-EL)	Minimum door size (EL)
30"	24"	28 1/2"
36"	30"	34 1/2"
42"	36"	40 1/2"
48"	42"	46 1/2"

- Lock/unlock capability
- ADA accessible
- Lever designs
 - Dane
 - Sutro
 - Quantum



Lever projection: Quantum = 3"
 Sutro = 2 7/8"
 Dane = 2 7/8"

Key locks or unlocks trim. Lever retracts latch bolt when trim is unlocked. Dane, Quantum and Sutro levers return to within 1/2" of door.

Specifications

Hand	Non handed
Functions	See trim selection chart on this page.
Finishes	628, 710, 711, 605, 612, 625, 626 Centercase and end cap are powder-coated black only.
Strikes	TD35 strike supplied standard, see page 11 for other rim strikes available.
Latch bolt	1" thickness, 3/4" throw
Dogging feature	Hex key dogging standard, except EL where must use hold back feature on outside cylinder.
Cylinder	Rim, night latch (NL) or hold back (HB) available (field selectable).
Sizes	30", 36", 42", and 48"
Doors	1 3/4" thick metal or wood, specify if wood door**
Projections	3 3/8" in neutral position, 2 3/8" in dogged position. Pushbar height is 2 1/2".
Stile	1 3/4" minimum
Electric functions	MEL - motorized electric latch retraction, requires PS900 series power supply; RX - request to exit switch, monitors pushpad OSPTD switch
Fasteners	All machine screw mounting. Device mounting fasteners are concealed, latch fasteners are exposed to egress side.
End caps	Black powder-coated metal end caps
ANSI	Carry UL label and approved for life safety. Certified ANSI A156.3 grade 1 standards.
Mullions	Removable mullions are available for pairs of doors, see page 26.

Model	Trim package	Type	Function
1790	No outside trim	4	01
1791	Pull only (9970)	4	02
1792	Cylinder only	4	03/04* or 08/09*
1794	Pull (9970) and cylinder	4	02/03/04

* Requires use of 179L

** 9970 is for use on HM and Alum doors only. Not for use on wood doors.

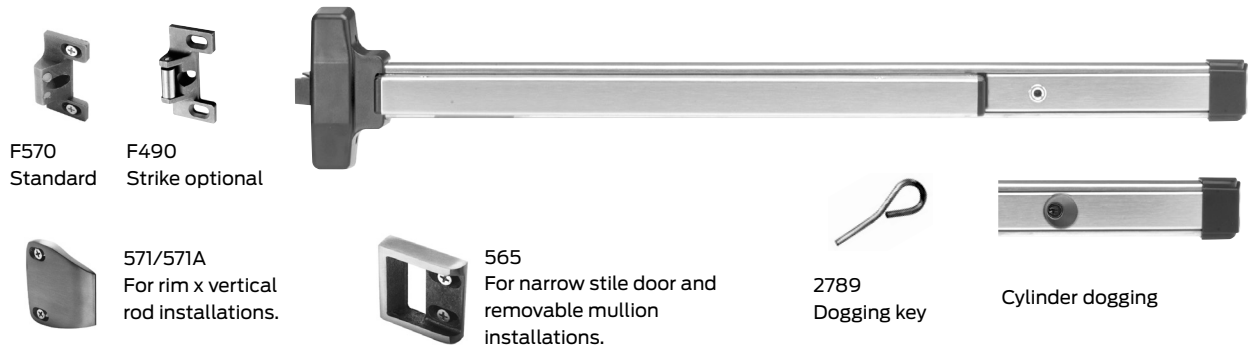
19-R Series non-handed rim device

Panic exit hardware

The Falcon 19-R Series rim device that delivers superior panic hardware with modern touchbar styling.

This non-handed device covers a 161 cutout and may be used on 1 3/4" narrow stile aluminum doors.

The "EO" (exit only) device is ready to accept any trim function shown on page 12.



Device & trim	ANSI type	ANSI function
19-R-EO	1 or 4	01
19-R-DT	1 or 4	02
19-R-NL	1 or 4	03
19-R-K (or L or KIL)	1 or 4	08
19-R-K-NL (or L-NL or kil-nl)	1 or 4	09
19-R-TP-BE	1 or 4	
19-R-K-BE	1 or 4	
19-R-K-DT	1 or 4	
19-R-L-BE	1 or 4	
19-R-L-DT	1 or 4	
19-R-KIL-BE	1 or 4	
19-R-KIL-DT	1 or 4	

Note: For blank escutcheon specify BE.

Specifications

Hand	Non-handed
Functions	See trim selection chart on this page
Finishes	689, 695, 630 Centercase and end cap are powder-coated black only.
Strikes	Standard - F570 Optional - F490, 565, 571, 571A
Latch	Stainless steel, 3/4" throw dead locking
Dogging feature	Hex key dogging standard. Cylinder dogging or less dogging optional.
Sizes	3' for doors from 2'5" up to 3' 4' for doors from 3' up to 4'
Doors	1 3/4" thick metal or wood doors, specify if other
Projections	2 1/2" in neutral position, 1 7/8" in dogged position. Pushbar height is 1 3/4"
Stile	1 3/4" minimum
Fasteners	All machine screw mounting. Device mounting fasteners are concealed, latch fasteners are exposed to egress side.
End caps	Black plastic end caps
ANSI	Certified ANSI A156.3 grade 1 standards

F-19-R Series non-handed rim device

Fire exit hardware

The F-19 Rim fire exit device is an excellent addition to the touchbar. This device is non-handed and is listed by UL for B label fire door installations on 4'0" x 7'2" single doors and/or 8'0" x 7'2" double doors with an F-4023 removable mullion or KRF-4023. The "EO" (exit only) device is ready to accept any trim function shown on page 12.



F570
Standard



F490
Strike optional



Device & trim	ANSI type	ANSI function
F-19-R-EO	1 or 4	01
F-19-R-NL	1 or 4	03
F-19-R-K (or L or KIL)	1 or 4	08
F-19-R-K-NL (or L-NL or KIL-NL)	1 or 4	09

Note: For blank escutcheon specify BE

Specifications

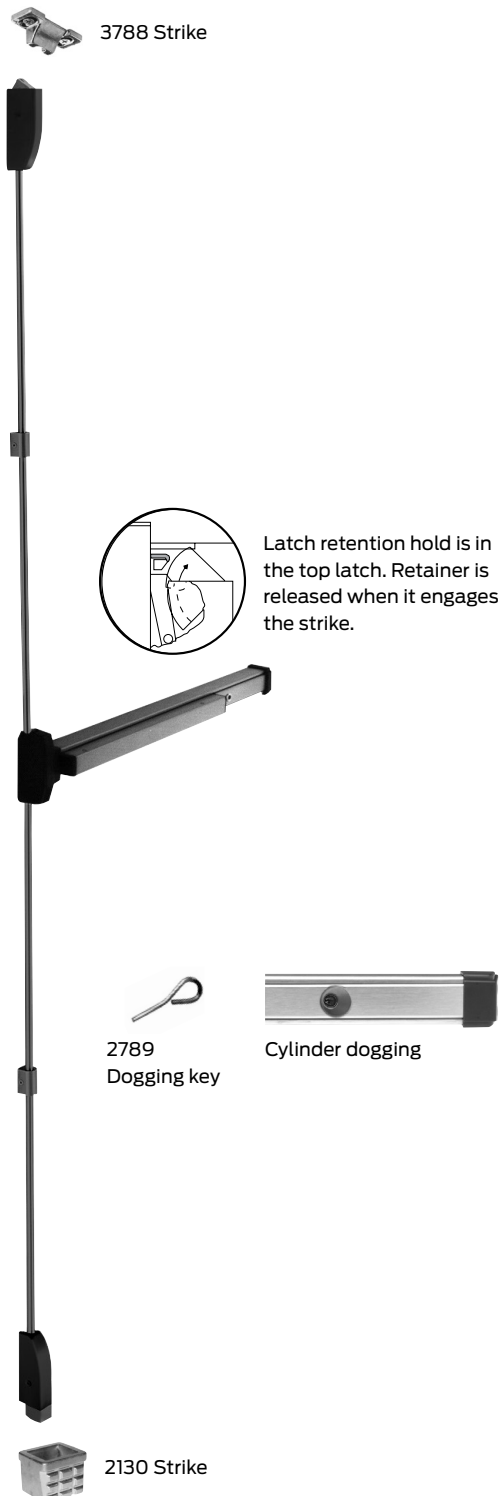
UL	"B" label (1 1/2" hr.); 4'0" x 7'2"
Functions	All functions built into "EO" device. All 19 series trim works with rim or vertical devices. See trim selection chart on pages 16 and 17.
Finishes	Power-coated aluminum-689; power-coated duranodic-695; stainless steel 630
Strikes	Stainless steel, F570 or F490
Latch bolt	Stainless steel, 3/4" throw
Deadlocking latch bolt	Standard
Sizes	3' for doors from 2'5" up to 3' 4' for doors from 3' up to 4'
Doors	1 3/4" thick wood or metal; Specify thickness if other than 1 3/4" (SNB must be specific on wood or composite doors.)
Projections	2 1/2" in neutral position, 1 7/8" in depressed position. Pushbar height is 1 3/4"
Sex bolts	When used with wood, composite or non-reinforced hollow metal, sex bolts must be specific, 3-#4122 (1/4"-20) SNB standard. An additional 2-#2729 (10-24) SNB must be specified.
ANSI	Certified ANSI A156.3 grade 1 standards
Shim kit	For glass lite applications; 1/4" thick specify SK 19-R-1/4"
161 Cutout	Device covers 161 cutout with KIL and Centron trims. Other trim requires cover plate.



19-V Series non-handed vertical rod device

Panic exit hardware

Manufactured to the same standards as the 19 Rim, the 19-V exit device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch with latch retention and square bolt at bottom. The "EO" (exit only) device is ready to accept any trim function shown on page 16.



Device & trim	ANSI type	ANSI function
19-V-EO	2 or 5	01
19-V-DT	2 or 5	02
19-V-NL	2 or 5	03
19-V-K (or L)	2 or 5	08
19-V-K-NL (or KIL)	2 or 5	09

Note: For blank escutcheon specify BE.

Specifications

Hand	Field reversible
Functions	All functions built into "EO" device. All 19 Series trim works with rim or vertical devices. See Trim Selection Chart on pages 16 and 17.
Finishes	Powder-coated aluminum-689; powder-coated duranodic-695; stainless steel 630
Strikes	3788 strike is surface applied standard, 2130 strike is mortised into floor.
Angle bracket	Use 4215 angle bracket in flush transom or rabbeted installations. Allows use of standard 3788 strike.
Latch bolt	Top stainless steel $\frac{3}{4}$ " throw. Bottom square bolt $\frac{1}{2}$ " throw
Deadlocking latch bolt	Standard
Dogging feature	Half turn hex dogging standard. No threaded parts to wear out.
Cylinder dogging	Specify "CD" prefix. Use $1\frac{1}{8}$ " long mortise cylinder with standard "A" cam
Stock sizes	3' for doors from 2'5" up to 3'. 4' for doors from 3' up to 4'.
Doors	$1\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than $1\frac{3}{4}$ ".
Narrow stile doors	To $1\frac{3}{4}$ " N.S. aluminum. With control trim- $2\frac{1}{4}$ " min. stile
Projection	$2\frac{1}{2}$ " max., $1\frac{7}{8}$ " dogged
Fasteners	All mounting screws are concealed. Furnished with sheet metal screws. Machine screws available, specify AMS.
Sex bolts	3-#4122 ($\frac{1}{4}$ "-20) SNB standard. Hollow core wood, light gauge hollow metal, etc. require additional sex bolts. 19-V: 6-#2729 #10-24 SNB; 19-V-LBR: 3-#2729 #10-24 SNB
ANSI	Certified ANSI A156.3 grade 1 standards.
19-V	Latch retention and 3788 strike top, deadbolt and 2130 flush strike bottom.
19-V-LBR	3788 strike top
Vertical rods	Furnished to length based on $40\frac{5}{16}$ " horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
Shim kit	For glass lites applications; $\frac{1}{4}$ " thick specify SK-19-V- $\frac{1}{4}$ ".
161 cutout	Device covers 161 cutout with KIK/KIL and Centron trims. Other trim requires cover plate.

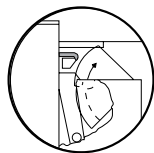
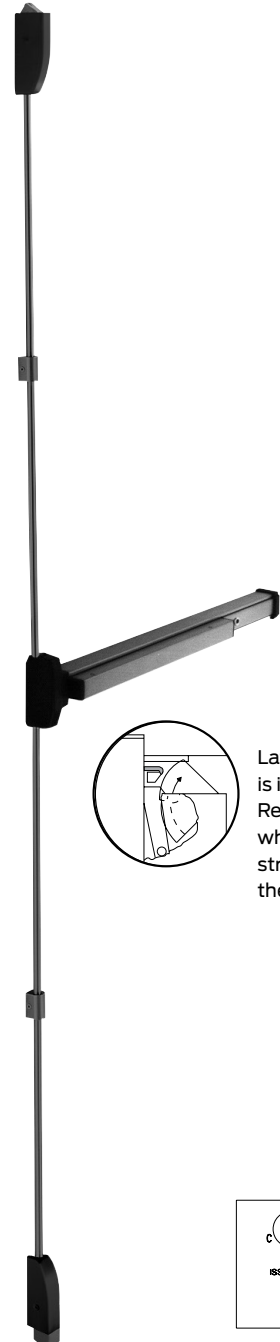
F-19-V Series non-handed vertical rod device

Fire exit hardware

Manufactured to the same standards as the F-19 Rim, the F-19-V Fire exit device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch retention and square bolt at bottom. (This device is listed by UL for "B" label fire door installations.) The "EO" (exit only) device is ready to accept any trim function shown on page 16.



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

Device & trim	ANSI type	ANSI function
F-19-V-EO	2 or 5	01
F-19-V-DT	2 or 5	02
F-19-V-NL	2 or 5	03
F-19-V-K (or L or KIL)	2 or 5	08
F-19-V-K-NL (or L-NL or KIL-NL)	2 or 5	09

Note: For blank escutcheon specify BE.

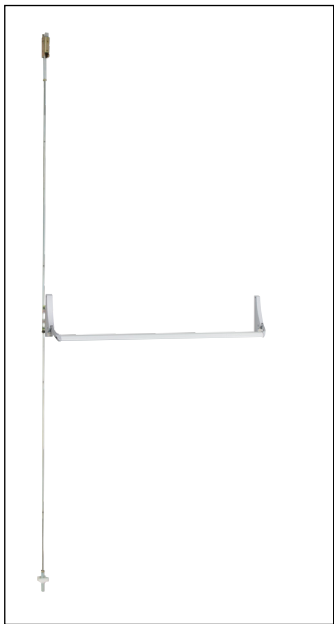
Specifications

Hand	Field reversible
Functions	All functions built into "EO" device. All 19 Series trim works with rim or vertical devices. See Trim Selection Chart on pages 16 and 17.
Finishes	Powder-coated aluminum-689; powder-coated duranodic-695; stainless steel 630.
Strikes	3788 strike is surface applied. 2130 strike is mortised into floor.
Latch bolt	Top stainless steel 3/4" throw; Bottom square bolt 1/2" throw
Deadlocking latch bolt	Standard
Stock Sizes	3' for doors from 2'5" up to 3' 4' for doors from 3' up to 4'
Doors	1 3/4" thick, wood or metal; specify if other than 1 3/4" thick.
Projection	2 1/2" maximum
Fasteners	All mounting screws are concealed. All machine screws standard.
Sex bolts	3- #4122 (1/4"-20) SNB standard. Composite or non-reinforced wood, hollow metal require additional sex bolts. F-19-V: 6- #2729 #10-24 SNB; F-19-V-LBR: 3- #2729 #10-24 SNB
ANSI	Certified ANSI A156.3 grade 1 standards
F-19-V	Latch retention and 3788 strike top deadbolt and 2130 flush strike bottom
F-19-V-LBR	Latch retention and 3788 strike top
Vertical rods	Furnished to length based on a 40 5/16" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
Shim kit	For glass lites applications; 1/4" thick specify SK-19-V-1/4"
161 cutout	Device covers 161 cutout with KIK/KIL and Centron trims. Other trim requires cover plate.

1990 Series concealed vertical rod crossbar device

Tough crossbar design.

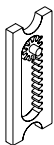
The classic look of 1990 has a long history of reliable performance. It is equipped with hardened steel latches and adjustable strike to ensure safety, security and quiet operation.



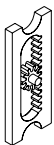
Specifications

Hand	Field reversible, non handed
Functions	See trim selection chart on this page
Finishes	622, 626, 689, 695
Strikes	PB48 top
Latches	Hex bottom latch (standard), RL - rod bottom latch, PL - Pullman bottom latch, ES - electric strike top latch (optional). Device needs to be less bottom rod (LBR).
Dogging feature	Hex dogging standard
Cylinder	Rim, key entry (NL) or hold back (HB) available (field selectable)
Sizes	Field adjustable width, 41" crossbar standard extra length cross bar available
Doors	1 3/4" thick metal doors
Projections	4 3/8" extended, 2 1/2" depressed
Stile	1 3/4" minimum
Fasteners	All mounting screws are concealed.
ANSI	Certified ANSI A156.3 grade 1 standards
UL	UL305 listed
Vertical rods	7' standard, extension rod kits available up to 10'

Positioning retractor as shown for NL or HB functions.
Install retractor as shown below for both RHR and LHR doors; this makes all keys function in the same direction.



Hold back (HB)



Night latch (NL)

Model	Trim Package	Type	Function
1990	No outside trim	6	01
1991	Pull only (9970)	6	02
1992	Cylinder only	6	03/04
1993	Pull and cylinder	6	02/03/04

20 Series grade 1 exit device

Falcon® prides itself on dependable, cost-effective products that meet or exceed life safety and building requirements. The Falcon 20 Series, pushbar exit devices are ideal for light-to-medium duty door applications, such as commercial, multi-family, office, and retail. This Grade 1, affordable exit device is offered in multiple functions, lever, and trim options. With the Falcon 20 Series, you're choosing a quality performing exit device with all metal construction at an unmatched value.

The Falcon 20 Series exit device is an affordable and reliable choice. Offered in Rim, Surface Vertical, Rim Fire and Surface Vertical Fire that will accommodate 161 door prep, this series can meet the needs of your application. This series offers 8 different trim functions including 161 key in lever.



Available trim



Escutcheon lever -
Entrance (212-L)
Night latch
(212-L-NL)

Raised lip
pull plate -
Night latch
(240-NL)

Handle
pull plate -
Night latch
(218-NL)

Handle
pull plate -
Thumb piece
(218-TP)

Key in lever round rose -
Entrance (214-KIL)
Night latch (214-KIL-NL)
Passage (214-KIL-BE)

Specifications

Hand	Rim devices and trim are non-handed; surface vertical devices easily field reversible
Functions	See available trim section on this page
Finishes	689, 695
Strikes	PB48 top
Latches	11/16" throw, deadlocking standard
Dogging feature	Hex key dogging standard on all panic devices
Sizes	3' device fits 29"-36" door size, 4' device fits 33" to 48" door size
Doors	Fits standard 1 3/4" thick door
Projections	2 7/16" extended 1 11/16" depressed
Stile	3 1/2" minimum stile width
Fasteners	Universal hardware pack for wood and hollow metal
ANSI	ANSI/BHMA A156.3 Grade 1 standards
UL	UL305 listed panic devices, UL10 listed 3-hour fire rated devices
Vertical rods	7' standard, extension rod kits available up to 9'

20 Series finishes

Color	US number	BHMA number
Aluminum, sprayed	SP28	689
Satin stainless steel	US32D	630

2090 Series rim crossbar device

Classic looks in a rim exit device.

The 2090 provides balanced appearance, dependable performance and economical pricing, making it a popular choice where rim exit devices are required.

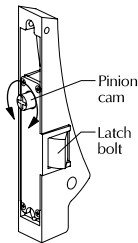


If cylinder is used, set pinion cam on back of active housing for hold-back (HB) or night latch (NL) operation.

Hold-back (HB)

Turning key one complete rotation retracts latch bolt. If key is removed in this position, latch bolt stays retracted. Returning key to original position before removing allows latch bolt to extend.

To set for hold-back: Turn pinion cam until latch bolt starts to retract, then turn pinion cam the other way as far as it will go. Leave pinion cam in this position.



Night latch (NL)

Turning key as far as it will go retracts latch bolt. Key must be returned to original position to be removed, leaving the door locked.

To set for night latch: Turn pinion cam until latch bolt starts to retract. Leave pinion cam in this position.

Specifications

Hand	Specify RHR or LHR, not reversible
Functions	See trim selection chart on this page
Finishes	622, 626, 689, 695
Strikes	SD36 standard, see page 21 for other rim strikes available
Latch bolt	1/2" throw hardened steel
Dogging feature	Hex dogging standard
Cylinder	Rim, key entry (NL) or hold back (HB) available (field selectable)
Sizes	Field adjustable width, 41" crossbar standard extra length crossbars available.
Doors	1 3/4" thick metal or wood doors, specify if wood door; 9970 is for use on HM and Alum doors only; Not for use on wood doors
Projections	4 3/8" extended, 2 1/2" depressed
Stile	1 3/4" minimum
Fasteners:	All mounting screws are concealed
UL	UL305 listed
Mullions	Removable mullions are available for pairs of doors, see page 23.

Model	Trim package	Type	Function
2090	No outside trim	4	01
2091	Pull only (9970)	4	02
2092	Cylinder only	4	03/04
2093	Pull and cylinder	4	02/03/04

Trim designs

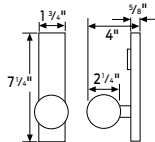
Control trim

SP28, SP313 and US-32D

K-control



911K
BE
NL

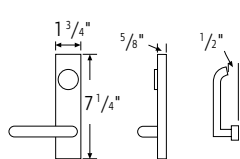


Key locks or unlocks trim. Knob retracts latch bolt when trim is unlocked.

L-control



L-Control-Dane
912L
BE
L-DT
NL



Lever Projection: Quantum = 3"
Sutro = 2 7/8"
Dane = 2 1/8"



L-Control-Sutro
912L
BE
L-DT
NL



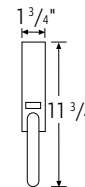
L-Control-Quantum
912L
BE
L-DT
NL

Key locks or unlocks trim. Lever retracts latch bolt when trim is unlocked. Dane, Quantum and Sutro levers return to within 1/2" of door.

DT-control



918 DT
Pull when dogged.



NL-control



918NL
Key retracts latch bolt.



Pull



9970
Can be used with all devices (not for use on wood doors).

9 1/4" center to center
2 7/8" projection
1 3/4" clearance

Cover plates



4167

3 1/4" x 15" x .050
Used with TP control & DT control
Covers 161 & 86 cutouts



4168

3 1/4" x 7 1/2" x .050
Used with EO device to cover No. 86 cutout for mortise lock



4170

3 1/4" x 7 1/2" x .050
Used with K control, DT/K control, L control, or DT/L control
Covers 161 & 86 cutouts

Key-in-lever



914KIL

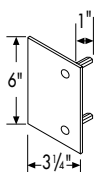


914-KIL-IC

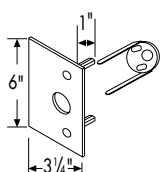
For 1-3/4" thick doors only

*For type 86 cutout specify 4174 inside cover plate.

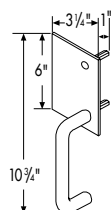
Centron trim



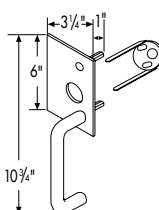
930 EO



930 C



930 DT



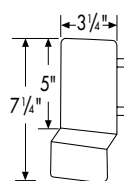
930 NL



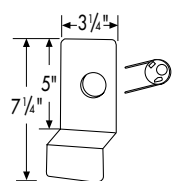
Pull only 917 DT

CTC - 5 1/2" round - 3/4" dia.
Pull when dogged.

Trident trim



920 DT



920 NL

Trim chart

Control

Device	DT	NL	T-BE	K	K-BE	K-DT
19-R/19-V	918	918	910	911	911	911
Cylinder type	—	rim	—	1 1/8" Mortise	—	—

Device	Dane*			Sutro*			Quantum*		
	L	L-BE	L-DT	L	L-BE	L-DT	L	L-BE	L-DT
19-R/19-V	912	912	912	912	912	912	912	912	912
Cylinder type	1 1/8" Mortise	—	—	1 1/8" Mortise	—	—	1 1/8" Mortise	—	—

KIL

Device	KIL*	KIL-LS/LK¹	KIL-NL*	KIL-IC*
19-R/19-V	914	914	914	914
	Falcon "C" keyway A23160	—	Falcon "C" keyway A23160	Small format

Trident trim

Centron

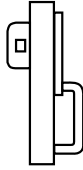
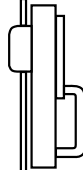
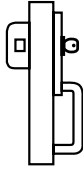
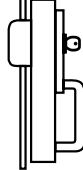
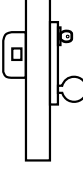
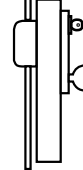
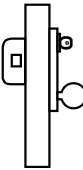
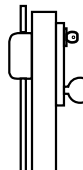
Device	NL	DT	C	DT	NL
19-R/19-V	920	920	930	930	930
Cylinder type	Rim	—	Rim	—	Rim

* Specify hand.

Note: For "NL" night latch function on K and L add "NL" after trim number.
All locking trim except KIL furnished less cylinder.

Type and functions

19 Series devices

Functions (ANSI)	Rim devices ANSI type 1 and 4	Vertical rod devices ANSI type 2 and 5
	(F)-19-R	(F)-19-V
EO or N (01) Exit only, no trim.		
	19-R-EO	19-V-EO
DT (02) Entrance by trim when actuating bar is dogged down.*		
	19-R-DT	19-V-DT
NL (03) Entrance by trim when latch bolt is retracted by key. Key removable only when locked.		
	19-R-NL	19-V-NL
K or L or KIL (08) Entrance by knob or lever. Key locks or unlocks knob.		
	19-R-19-R-K or L or KIK or KIL	19-V-K or L or KIK or KIL
K(NL) or L(NL) (09) or KIL (NL) Entrance by knob or lever only when released by key. Key removable only when locked.		
	19-R-K (NL) or L(NL) or KIK(NL) or KIL(NL)	19-V-K (NL) or L(NL) or KIK(NL) or KIL(NL)

*Latch, device, and authorize degress monitors. (See electrified hardware catalog.)

*Fire exit devices cannot be dogged down. Some codes permit electric dogging with fail secure circuitry.

Type and functions

Double doors

Device & trim	Length	Top strike	Bottom strike	Min. stile	Door opening width
(F) 19-V	3'0"	3788	2130	3 1/2"	2' 5 1/4" to 3'0"
(F) 19-V	4'0"	3788	2130	3 1/2"	3'0" to 4'0"

Note: For (F-) 19-V-LBR use "V" information less bottom strike. F-19-V-LBR requires use of auxiliary fire latch.

Single doors with 5/8" stop

Device & trim	Length	Strike	Min. stile	Door opening width
19-R	3'0"	F570	3 1/2"	2'5 1/4" to 3'0"
		565	1 3/4"*	2' 4 3/4" to 2' 9 1/4"
F-19-R	3'0"	F570	3 1/2"	2'5 1/4" to 3'0"
19-R	4'0"	F570	3 1/4"	3'0" to 4'0"
		565	1 3/4"*	3'0" to 3'9 3/4"
F-19-R	4'0"	F570	3 1/4"	3'0" to 4'0"

*For EO and NL functions only. 2- 1/4" minimum stile required for control trim.

Dimensions:

- Recommended height from finished floor - 40 5/16" at CL
- Touchbar projections: neutral - 2 1/2" depressed - 1 7/8"
- Extension rods or longer top rods available upon request
- Specify door height
- Dummy touchbar available. Specify 190 DT 3' or 4'
- Overall length: 3' 30 1/2"- 4' 42 5/8"
- Changes for minimum door size for charts on left:
 - For cylinder dogging, add 2 1/4" to minimum door size
 - For exit alarm, add 4 1/2" to minimum door size
 - To fit on smaller door, consult factory

Double doors with mullion

Device & trim	Length	Strike	Min. stile	Door opening width	Fire	Panic
19-R	3'0"	F570	3 1/2"	2'5 1/4" to 3'0"	—	2923 ¹
		565	3 3/4"	2'4 3/4" to 2'9 1/4"	—	4023/ KR4-23
			3 1/8"		—	2923 ¹
			3 3/8"		—	4023/KR4023
F-19-R	3'0"	F-570	3 3/4"	2'5 1/4" to 3'0"	(F)4023 KR(F)4023	— —
19-R	4'0"	F570	3 1/2"	3'0" to 4'0"	—	2923 ¹
		565	3 3/4"	3'0" to 3'9 3/4"	—	4023/ KR4-23
			3 1/8"		—	2923 ¹
			3 3/8"		—	4023/KR4023
F-19-R	4'0"	F-570	3 3/4"	3'0" to 4'0"	(F)4023 KR(F)4023	— —

¹ To cover 161 cutout on double door installation, specify 2923 mullion with 565 strike.

Door applications

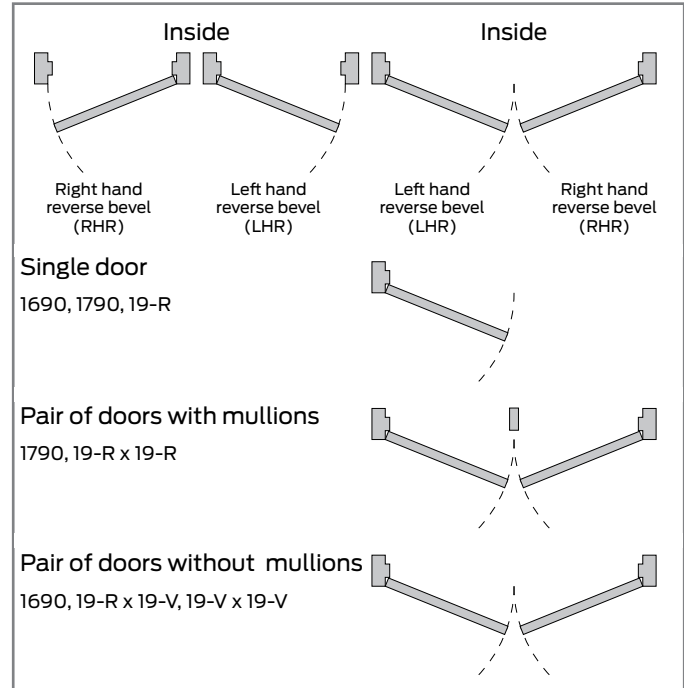
Door thickness

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

Number	BHMA/ANSI function
01	Exit only, no trim.
02	Entrance by trim when actuating bar is locked down.
03	Entrance by trim when latch bolt is retracted by key; key removable only when locked.
04	Entrance by trim when latch bolt is retracted by key or set in a retracted position by key.
08	Entrance by knob or lever; key locks or unlocks knob or lever.
09	Entrance by knob or lever only when released by keys; key removable only when locked.

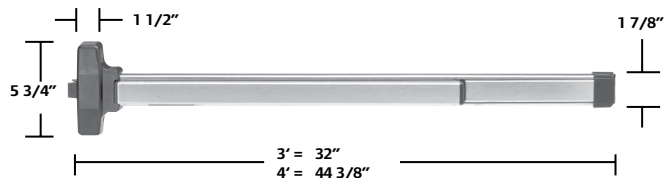
U.S. standard	BHMA	Description
US28	628	Anodized aluminum – clear
DC13	710	Anodized aluminium – dark bronze
DC35	711	Anodized aluminum – black
P28	689	Painted aluminum – silver
P13	695	Painted aluminum – dark bronze
P35	622	Painted aluminum – black
US3	666	Bright brass
US4	667	Satin brass
US9	705	Bright bronze
US10	668	Satin bronze
US10B	703	Oxidized satin bronze
US14	669	Bright nickel
US15	670	Satin nickel
US26	672	Bright chrome
US26D	702	Satin chrome

Door application chart



Device	Label	Door opening	Application
Hollow metal door			
F-19-R	1 1/2 hr. "B"	4' x 7'2" 8' x 7'2"	Single, pair, same egress w/ F-4023 mullion and KR-F-4023
F-19-V	1 1/2 hr. "B"	8' x 10'	Pair, double egress, same egress
F-19-V-LBR	1 1/2 hr. "B"	8' x 8'	Pair, double egress, same egress
Wood door			
F-19-V-LBR	20 min.	8' x 8'	Wood or comp., pair, double egress, same egress
F-19-R	1 1/2 hr. "B"	4' x 7'2" 8' x 7'2"	Single, pair, same egress w/ F-4023 mullion and KR-F-4023

19 Device dimensions:



Strikes

1690 Concealed vertical rod device



PB48

Top strike for 1690 device. Packed with three 0.050" thick shims. 1 1/16" x 1 1/16" x 7/16" (H x W x D)

1790 Rim device



STK45

Strike for inactive leaf, pair of doors with 1790 device. 3 1/4" x 1 5/16" x 1/4" (H x W x D)



TD35

Strike for single doors, 1790 device. Includes 1/8" shim. 3" x 2" x 1/2" (H x W x D)

(F) 19-R Rim devices



F570

Standard strike. 2 5/8" x 1 1/4" x 13/16" (H x W x D)



F490

Optional strike. 2 5/8" x 1 1/4" x 7/8" (H x W x D)



565

Adjustable surface mounted for use with blade or applied stops. Mounts flush for 1/2" stop height.



571/571A

Used on inactive leaf for device on active leaf of pair of doors without removable mullion. 571 keeps 2 5/16" backset. 571A is trimmer and projects less into opening.

(F) 19-V Surface vertical rod devices



3788

Top strike for 19-V.



2130

19-V bottom strike for grouting into concrete or masonry floors.



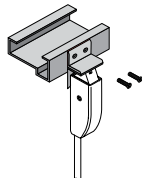
4155

19-V optional bottom strike.



2126A

19-V optional bottom strike.



4215

Angle bracket for 19-V devices flush transom applications. Does not require elimination of latch retention feature.



Extension rods

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

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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

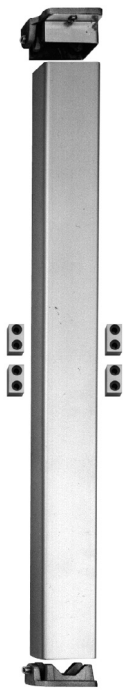
900-2RS: 2 relay EL panic device control board (PS914 only)

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

Accessories



F-4023 Shown

Removable mullion

- Removable mullions are easily removed and reinstalled for full width access
- Increased security and tighter closure
- Minimizes door warp age and sag
- Regulates the traffic flow in-and-out
- Rim devices are used on both leaves, attaining a perfect symmetrical opening
- Mullion assembly consists of a mullion, top and bottom fittings and mounting package
- Mullion can be cut on the job for doors under stock lengths

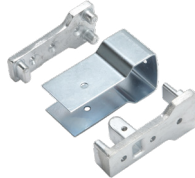
2923, (F)4023, (F)KR4023 Mullion

These steel mullions can be used with the 19-R and F-19-R devices. Soffit adapters are available for the 2923 and 4023 mullions. The F4023 and F-KR4023 fire-rated mullions also include four stabilizer blocks as required for labeled installations. Strikes are not included with mullion and should be specified with the 19-R or F-19-R device, see page 11 for strike information. KR mullions require 1 1/4" mortise cylinder with standard "A" cam. The mullion fittings are made from ductile iron. The (F)4023 and (F)KR4023 are 2" wide and 3" deep. The 2923 is 1 1/2" wide and 2 1/2" deep. Furnished in prime coat.

Mullions



RM 170



Mullion brackets



525 Mullion stabilizer for RM170

RM 170 Removable mullion

RM 170 for use with 1790 series. Comes complete with adjustable mortised strikes and security clips. Compatible with doors 7' to 10' and for use with stiles as narrow as 1 3/4". Made of aluminum, available in anodized aluminum or bronze finishes. Mullion is 3 1/2" deep, 1" wide on door side, and 1 5/8" at the widest point.

Mullion strikes

STK170

Adjustable mortise strikes (pair)

2 7/8" tall

1 3/4" wide

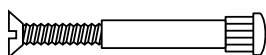
1" thick

Sex bolts

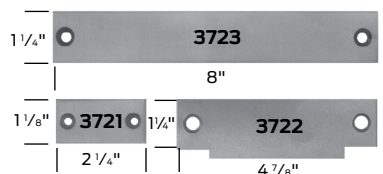
Sex bolts are available for 1 3/4" door thickness. Screws to fit are available in 3/4" and 2" lengths to cover a wide range of door thicknesses.

2729 (#10-24 thread)

4122 (1/4"-20 thread)



Filler plates



3721/3722/3723

Steel filler plates

3721 Cylindrical lock front filler

3722 ASA strike filler - set no. SC for 161 cutout

3723 Mortise lock front filler

3722 ASA strike filler - set no. SM for 86 cutout

Accessories

MEL application

MEL electronic specifications

MEL electric load

Voltage	24 VDC
Current	1.0 A Inrush (0.5 sec) 0.14 A holding

MEL wire run lengths

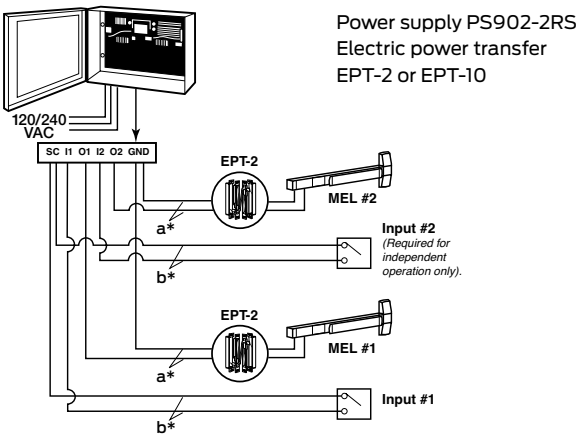
Distance (one way)	Wire Gauge
200'	18 AWG
320"	16 AWG
500'	14 AWG
800'	12 AWG

Accessories

The MEL has a low in rush current = 1.0 amps, so it can be used with standard Schlage power supplies. When powering multiple components, verify that the amperage requirements of all components combined does not exceed the power supply output rating, see table below for output ratings.

Schlage PS902	Schlage PS904	Schlage PS906
Up to 2 amps	Up to 4 amps	Up to 6 amps

MEL wire run lengths



The MEL device is compatible with the following equipment: PS900 Series power supplies - PS902, 904, 906, 914; 900 Series Option Boards - 900-2RS, 900-4R, 900-4RL, 900-2Q; PS873 Power Supply including 871-2, 871-2Q, 873-4TD/AO Option Boards. The power transfer is also sold separately. Please refer to Von Duprin catalog for more information on EPT-2/EPT-10 power transfers and PS900 series power supplies.

How to order

1690/1790

		MEL	1690	EO	36"	US28	RL*
HH	Hurricane device*						
RX	Request to exit switch						
MEL	Motorized electric latch retraction						
ED	Electric dogging						
1690	See model numbers on page 8						
1790	See model numbers on page 9						
EO	Exit only						
DT	Dummy trim						
NL-HBOP	Cylinder assembly—optional pull						
NL-HBP	Cylinder assembly with 9970						
30"	30" (optional)						
36"	36" (standard)						
42"	42" (optional)						
48"	48" (optional)						
628							
710							
711							
605							
612							
625							
626							
1690 Only							
HEX	Standard bottom latch						
RL	Rod bottom latch						
PL	Pullman bottom latch						
ES	Top latch for use with electric strike						
LESS RODS	Less rods (retrofit of 1990 device)						
LBR	Less bottom rods						

*Applies to 1690 Only

19 Series

		CD	F	19	V	L-DANE	US32D	3'	L	HR	LBR	SNB	WD
Prefixes													
CD	Cylinder dogging												
KOR	Key bypass switch												
Rating													
F	Fire exit hardware												
Blank	Panic exit hardware												
Device Series													
19	Touch bar device, narrow stile												
Device Type													
R	Rim												
V	Surface vertical rod												
Trim Function (see Trim pages for all functions)													
EO	Exit only												
DT	Dummy trim												
NL	Night latch												
C	Cylinder trim less pull												
K	Knob												
L	Lever (dane standard)												
TL	Thumb lever												
KIL	Key in lever												
Finish													
630													
689													
695													
Door Width													
3'	Standard default												
4'													
—	Specify exact door width												
Handing													
RHR	Right hand reverse												
LHR	Left hand reverse												
Less bottom rod													
LBR	Less bottom rod												
LBR-AFL	LBR w/auxiliary fire latch												
Other device options													
RBB	Round bottom bolt												
SSTB	Stainless steel touch bar												
VRP	Black pad on touch bar												
TAC	Tactile warning												
Accessories													
CYL	Cylinder												
SNB	Sex bolts												
SK	Shim kit												
AMS	All machine screws												
Other miscellaneous door information													
HMD	Hollow metal door												
HMF	Hollow metal frame												
WD	Wood door												
WDF	Wood frame												
ALD	Aluminum door												
ALF	Aluminum frame												
SCDC	Steel channel door construction												
—	Specify other door or frame												
—	Material information												
—	Door height												
—	Door thickness												
—	Door undercut												
—	Door label (20 min, 45 min, 90 min 1-1/2 hr)												
—	Stile width												
—	Frame stop height												
SGL	Single door												
PR	Pair of doors swinging same direction												

20 Series

		20	R	EO	SP28	3'
Rating	F – Fire exit Blank – Panic exit					
Series	20					
Type	R – Rim V – Surface vertical rod					
Function	EO – Exit Only					
Finish	689 630					
Door width	3' 4'					

		212	L	SP28
Type	212 – Lever trim 214 – Key-in-lever 218 – Handle pull plate 240 – Raised lip pull plate			
Function	L, L-NL KIL, KIL-NL, KIL-BE NL, TP			
Finish	689 630			

About Allegion

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