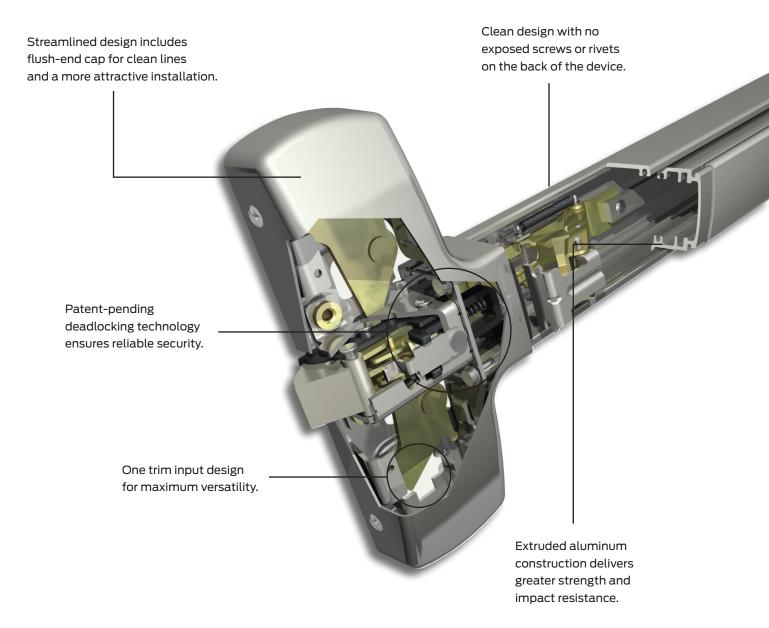
The Falcon 24 and 25 Series

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



Falcon exit devices

Architectural pushpads		Commercial pushpads	. PUS	
	24/25 Series	19 Series	1490/1590	1690/1790
Selling features	 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 	 Steel operating mechanisms Aluminum push bar and end caps Durable design Surface vertical and rim options available 	 Patented pending latchbolt for hurricane ratings #1 selling exit device for aluminum doors Full compliment of electrical options Durable design
Applications	 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 	 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 • 7 functions /4 lever designs • 3 finishes • 10-year warranty	• CV=1490/Rim=1590 • 4 functions/10 finishes • 3 length options • 10-year warranty	 CV = 1690/Rim = 1790 4 functions/7 finishes 4 length options 10-year warranty

Recessed/ concealed devices Crossbars ΧХ 1990 2090 2390 Classic looks in a rim device Reduced projection recessed Classic traditional design Classic industry look Designed for high use Dependable and attractive Balanced appearance, device Economic crossbar option dependable performance and abuse Tough, reliable performance 1/2" inch steel latchbolt Panic and fire rated options and economical pricing Easy rod adjustment simplifies Hardened steel latches Surface mounted strikes for full installation Adjustable strike to ensure frame or blade type stops Smooth, reliable operation safety, security and smooth operation Light/moderate traffic Light traffic Light traffic Moderate/ frequent traffic Commercial, multi-family, office, Commercial, multi-family, office, Commercial, multi-family, office, · Healthcare, assisted living, retail retail retail education Interior, exterior, retro-fit Interior, exterior, retro-fit Interior, exterior, retro-fit Interior, new construction · Rim. SV. CV. M ٠CV • Rim ٠CV •13 functions/8 finishes • 4 functions/10 finishes • 4 functions/10 finishes • 3 functions/4 finishes 5 lever options 2 length options 2 length options 2 length options • 10-year warranty · 10-year warranty • 10-year warranty · 10-year warranty



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

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 $3/4$ " throw. Bottom bolt, $1/2$ " 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 $1^{1}/_{6}$ " long mortise cylinder with standard cam.
Stock sizes:	See chart to below.
Doors:	1 ³ /4" thick, wood or metal. Specify thickness if other than 1 ³ /4".
Projections:	2 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 A156.3-2001 grade 1 standards.
Vertical rods:	Furnished to length based on a 40 ¼" 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	31/2"	2'71/8"
25-V	4'	All	3 1/2"	3'11/8"
25-V x 25-R	3'	1609	3 1/2"	2' 7 5/8" for 3 1/2" Min. Stile
25-V x 25-R	4'	1609	3 1/2"	2' 1 ⁵ /8" for 3 ¹ /2" Min. Stile

25 Series Accessories and options

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 sercurity 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 - 1½" 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	C987 - 1 ³ /8" Mortise (#5 cam) (blocking ring plus security collar must equal 1/4")
KR4023 mullion	N/A	986 - 1 1/4" Mortise (#4 cam)	C987 (#5 cam, ½" 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 ${}^3/{}_8{}^{\prime\prime}$ via a recessed blocking ring.



Strikes

For rim devices



264 2⁷/8" x 1¹/4" x ⁹/16" $(H \times W \times D)$ Panic device only.



299 7⁷/8" x 1¹/4" x ¹³/16" $(H \times W \times D)$ Panic device only.



299F 2⁷/8" x 1¹/4" x ¹³/16" $(H \times W \times D)$



3 5/8" x 1 1/2" x 16/16" $(H \times W \times D)$



1439 Blade stop 1³/₄" x 1⁷/₈" x ¹/₂" $(H \times W \times D)$ Panic device only.



1606 2⁷/8" x 1³/8" x ³/8" $(H \times W \times D)$ Panic device only.



1609 3¹/₄" x 1¹/₁₆" x ³/₈" $(H \times W \times D)$ 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



3788 Furnished top of (F)25-V.



4155 Optional strike. Panic device only.



4188 Top strike for (F)25-C.

masonry floors.

For mortise lock devices



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

4215



F1280

Open back strike used on pairs of 1³/₄" doors without astragal or coordinator. Can be used on stock hollow metal doors. F1280 "B" label (11/2 hr.) stainless steel strike available.

Extension rods are

available in 12", 24"

and 36" lengths in

all finishes. Both

ends tapped and

all-thread included as connector.

1281



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

Accessories

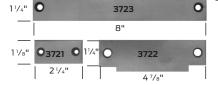


Angle bracket for flush transom applications. Does not require elimination of latch retention feature. Accepts 3788 strike for 25-V device.

Filler Plates



Steel filler plates



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

Concealed extension rods Surface vertical extension rods

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

25 Series Trim designs

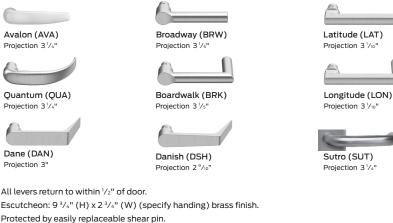
Functionality built into the trim, facilitating easy door preps, easy field retrofit and easy ordering.

Lever trims (510L)





Lever designs



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 AI56.3 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

0

Pull trims (512)



Escutcheon: 16" x 2 ³/₄" Grip: 6 ¹/₄" C- C Projection: 2 ¹¹/₁₆"

512TP

512TP-BE



717DT

Delta (717)

Knob trims (513K)



513K-DT 513K 513K-BE 513K-NL

Round ball knob Escutcheon: 9 ³/₄" x 2 ³/₄" Projection: 4" Brass For keyed functions, see page 14 for cylinder requirements.

Cylinder only (NL-OP)

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

Brass For keyed functions, see page 14 for cylinder requirements.

512DT

512NL

25 Series Trim chart & 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



This page shows all 25 Series device and trim functions.

Functions (ANSI)



DT (02) Entrance by trim when actuating bar is locked down.

NL (03)

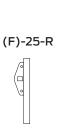
Entrance by trim when latchbolt is retracted by key. Key removable only when locked.



Key locks or unlocks thumbpiece.

L or K (08) Entrance by knob or lever. Key locks or unlocks knob.

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.



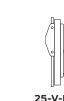
Rim device

ANSI type 1

25-R-EO

25-R-DT

25-R-NL



Vertical rod

ANSI type 2

device

(F)-25-V

25-V-EO

25-V-DT



25-V-NL



25-R-TP

k

25-R-L/K

25-R-L/K(NL)



25-V-TP

b

25-V-L/K



Mortise lock device ANSI type 3 (F)-25-M

25-M-EO

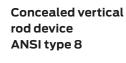
25-M-DT

25-M-NL

25-M-TP

25-M-L/K

25-M-L/K(NL)







25-C-EO



25-C-DT



25-C-NL



25-C-TP



25-C-L/K





25 Series Door application

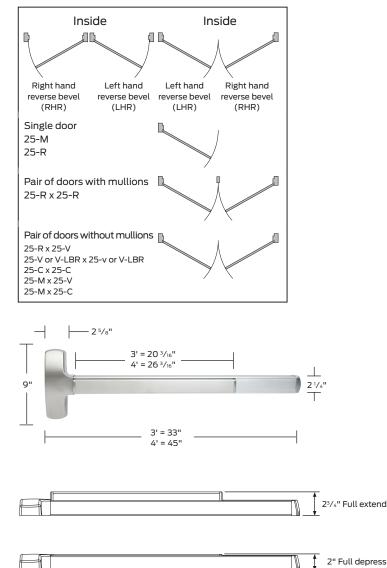
Label doors

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

Door thickness

All devices and components supplied for 1³/₄" doors standard. Specify door thickness if other than 1³/₄".

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 (MEL) 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 (US3, US4, US10, US26, US26D, US32D, SP28, SP313)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

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

		Device	Door size	Door strike	Minimum door opening width (Add 3.5" to standard)
		MEL-24-R	3'	299	2' 11"
	Power supply PS902-2RS			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"
120/240				1606	3' 4 ⁵ /8"
VAC 900-2	RS option card	MEL-24-C	3'	All	2' 10 ⁵⁄ ₈ "
SC 11 01 12 02 GND		MEL-24-C	4'	All	3' 4 ⁵ /8"
EPT-2/E	РТ-10	MEL-24-V	3'	All	2' 10 5/8"
	MEL #2	MEL-24-V	4'	All	3' 4 5/8"
		put #2 Required for			
		dependent MEL-25-R	3'	299	2' 11"
		peration only)		264	2' 10 7/8"
				1439	2'10 1/4"
]		1606	2' 10 5/8"
EPT-2/E		MEL-25-R	4'	299	3' 5"
	MEL #1	-		264	3' 4 ⁷ /8"
				1439	3' 4 1/4"
				1606	3' 4 5/8"
		put #1 MEL-25-C	3'	All	2' 10 5/8"
	<u> </u>	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 "

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

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 /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.

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.



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



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 32 for more information

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

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

	EMERGENCY EXIT PUSH TO OPEN	ALARM WILL SOUND	
	EA-25-R-EO Exit alarm device with warr	ning label.	

Minimum door width required for standard devices

Device	Door size	Door strike	Min door opening width
EA-24-R	3'	299	2'91/4"
		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	3'31/4"
		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 avialable for your existing devices

How to order

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

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

Minimum power supply - PS902

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

Device monitoring Device monitoring for most 24 and all 25 Series devices*

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

*DM, *LM, RX Monitoring

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

How to order

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

Key override option (KOR)

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

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

This feature is not available with EA feature, cylinder/standard dogging. To order KOR feature add KOR prefix to device designation. (example: KOR-DM-24-R-TP)

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

Power supply



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

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

Features:

- Constant output rating at both 12 VDC and 24 VDC provides superior performance; includes field selectable jumper
- Polarized connectors for option boards eliminate need for racks and side connectors
- Flat mounting of option boards provides easier access to terminal blocks for connection of electrified devices
- High voltage protective cover
- Battery back-up board auto-selects voltage
- Fire alarm relay can be configured to provide either switched or un-switched outputs from a power supply
- PS914 designed with high in rush current for powering 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.

 \ast 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	2 amps	4 amps	6 amps	4 amps
following:				
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 (one way)	MEL device w/EPT, electric hinge, door loop
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)	Х	_	V	V	V	V	V	Х	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)	Х	Х	V	V	V	V	V	_	Х
Exit alarm (EA)	х	х	V	V	V	V	V	Х	_

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)	х	_	V	V	V	V	Х	Х
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)	Х	Х	V	V	V	V	_	Х
Exit alarm (EA)	Х	Х	V	V	V	V	Х	_

*Not available on 24-R/F-24-R.

V = works with

X = doesn't work

How to order

25 Series

				М	EL F	=	25	V	L-DANE	US3	3'	LHR	LBR	SNB WE
Prefixes CD RX DM EA KOR LD LM MEL FSA FSE	Cylinder doggin Touchbar reque Latchbolt and d Exit alarm Key bypass swit Less dogging Latchbolt statu Motorized elect Electric lock or d Electric lock or d	st to exit device monitor s tch s switch rric latch retracti unlock trim-fail :	on safe	_										
Rating F Blank	Fire exit hardwa Panic exit hardw				1									
Device serie 25	s Touch bar devic	ce, wide stile				1								
_														
Device type	5			~										
R	Rim	l ve el	C-WDC		aled verti									
v c	Surface vertical Concealed verti		Mortis	door (20	or 90 n	nin)								
			М	mortic										
Trim functio	on (see trim page	s for all functio	ons)											
EO	Exit only		К	Knob										
DT	Dummy trim		L		(Dane sta									
NL	Night latch		С		ler prim p	late								
NL-OP	Night latch opti	onal pull	511-L	VR trir	n									
TP	Thumbpiece													
Finish														
Finish US3	US10	USII	US15		11610									
US3 US32	US28	US4	US26D		US19 US32D	US26 313AI								
0352	0320	034	03200	·	03320	JIJA								
Door width		Door thicknes	S											
3' Standar	d default	1 ³ / ₄ " Standard	1											
4'		2 1/4" Optional												
Handing														
RHR	Right hand reve													
LHR	Left hand revers	se												
Less bottom	rod													
LBR	Less bottom roo	d												
Accessories														
CYL	Cylinder		SNB	Sex bo										
SK	Shim kit		AMS	All ma	achine scr	ews (fo	or vertic	aland	concealed c	only)				
Other !		6												
	llaneous door in				Doct thi	cknocc								
HMD HMF	Hollow metal de Hollow metal fr		_		Door thi Door un									
WD	Wood door		_		Door Unit									
	wood door Wood frame		_											
WDF			_		Stile wic		aht							
ALD	Aluminum door		_	~	Frame s		Rur							
ALF	Aluminum fram			GL	Single d				alture and t					
SCDC		loor construction	n P I	к	Pair of d	ioors sv	vinging	same	direction					
_	Specify other de													
	Material inform	ation												
	Door height													

How to order

Trim

				510	L	R	US26) LHR	SUTRO	D FSE	CYL
24 Series	25 Serie	25			\top	\top					\top
711	510										
712	511										
715	512										
717	513										
718	717										
	718										
Trim function	on (see trim page	es for all funct	tions)								
	only		Knob								
	nmy trim		Lever (Dane sta	andard)							
	ht latch		Key in lever	indara)							
0	nder trim less pul		Thumb lever								
-	mbpiece										
Device type											
R	Rim										
V	Surface vertica										
С	Concealed vert	ical rod (inclue	des WDC)								
М	Mortise										
Finish											
US3	US4	US10	US10B	US11			US19				
US26	US26D	US32	US32D	SP28	3 SP	313					
Handing											
RHR	Right hand reve	erse									
LHR	Left hand rever	se									
Lever style Dane (DAN)											
Sutro (SUT)											
Quantum (0											
Avalon (AVA											
Boardwalk											
Broadway (
Danish (DSI											
Latitude (LA											
Longitude (
Othermise	ollonoous de se in	formation									
FSA	ellaneous door ir Electric Lock or		afo (ESA dovio	o roquiros	4)						
FSA	Electric Lock of										
CON	Allegion Conne			nce requir	eu)						
Accessories											
	Cylinder										
CYL KD	Cylinder keyed	different.									

Door thickness

Specify door thickness other than 1 $^{3}/_{4}$ "