

# 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

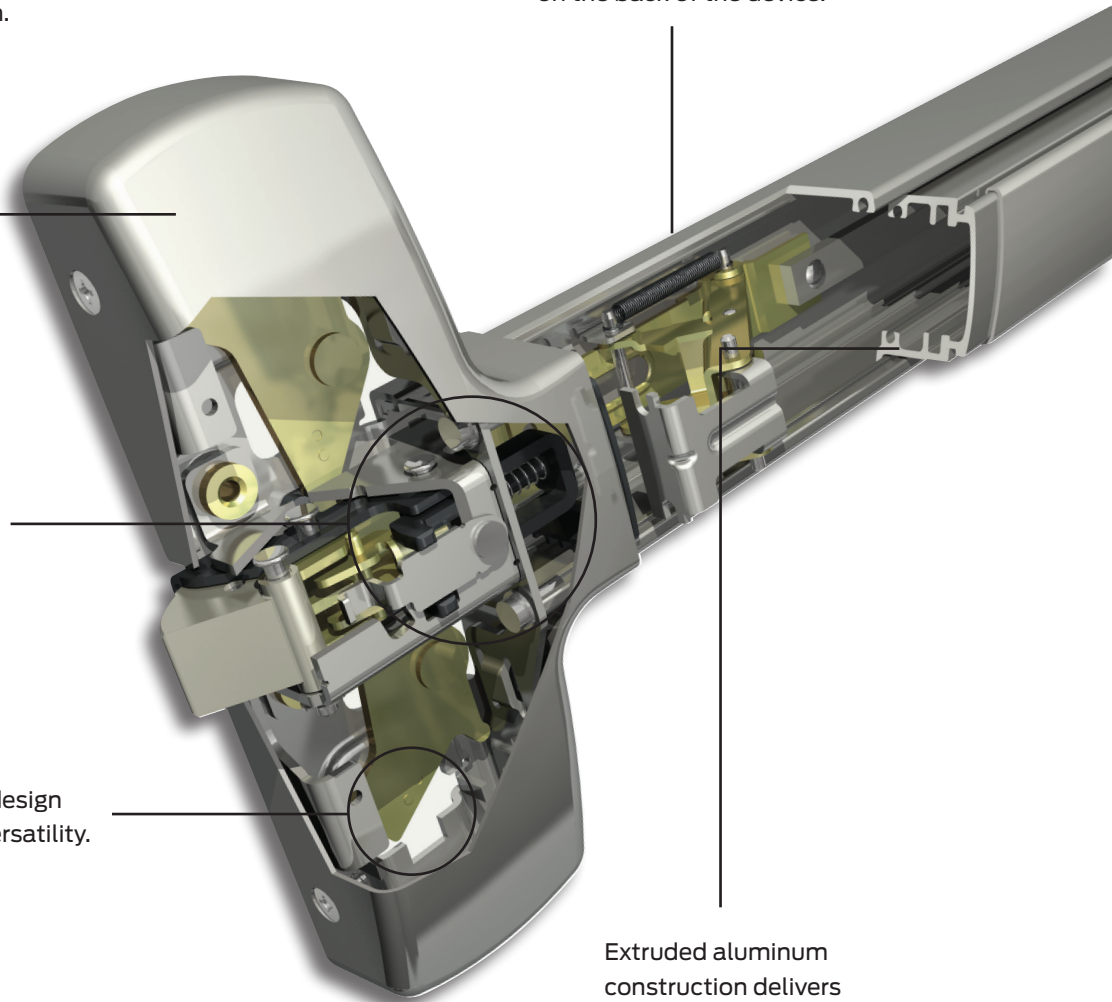
Streamlined design includes flush-end cap for clean lines and a more attractive installation.

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.



# Falcon exit devices

## Architectural pushpads



**24/25 Series**

- Maximum flexibility in a variety of applications
- Wide range of features and options
- Patent pending deadlocking technology

## Commercial pushpads



**19 Series**

- Lowest cost most dependable light-duty exit
- Large trim selection
- Standard deadlocking



**1490/1590**

- Steel operating mechanisms
- Aluminum push bar and end caps
- Durable design
- Surface vertical and rim options available



**1690/1790**

- Patented pending latchbolt for hurricane ratings
- #1 selling exit device for aluminum doors
- Full compliment of electrical options
- Durable design

Selling features

Applications

Device options

- 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

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- Commercial, multi-family, office, retail
- Interior, exterior, retro-fit

- Moderate traffic
- Commercial, multi-family, office, retail
- Interior, exterior, retro-fit

- 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

## Crossbars



**XX**

- Classic traditional design
- Dependable and attractive
- Economic crossbar option
- Panic and fire rated options



**1990**

- Classic industry look
- Balanced appearance, dependable performance and economical pricing
- Hardened steel latches
- Adjustable strike to ensure safety, security and smooth operation



**2090**

- 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



**2390**

- Reduced projection recessed device
- Tough, reliable performance
- Easy rod adjustment simplifies installation
- Smooth, reliable operation

- Light/moderate traffic
- Commercial, multi-family, office, retail
- Interior, exterior, retro-fit

- Light traffic
- Commercial, multi-family, office, retail
- Interior, exterior, retro-fit

- Light traffic
- Commercial, multi-family, office, retail
- Interior, exterior, retro-fit

- Moderate/ frequent traffic
- Healthcare, assisted living, education
- Interior, new construction

- Rim, SV, CV, M
- 13 functions/8 finishes
- 5 lever options
- 10-year warranty

- CV
- 4 functions/10 finishes
- 2 length options
- 10-year warranty

- Rim
- 4 functions/10 finishes
- 2 length options
- 10-year warranty

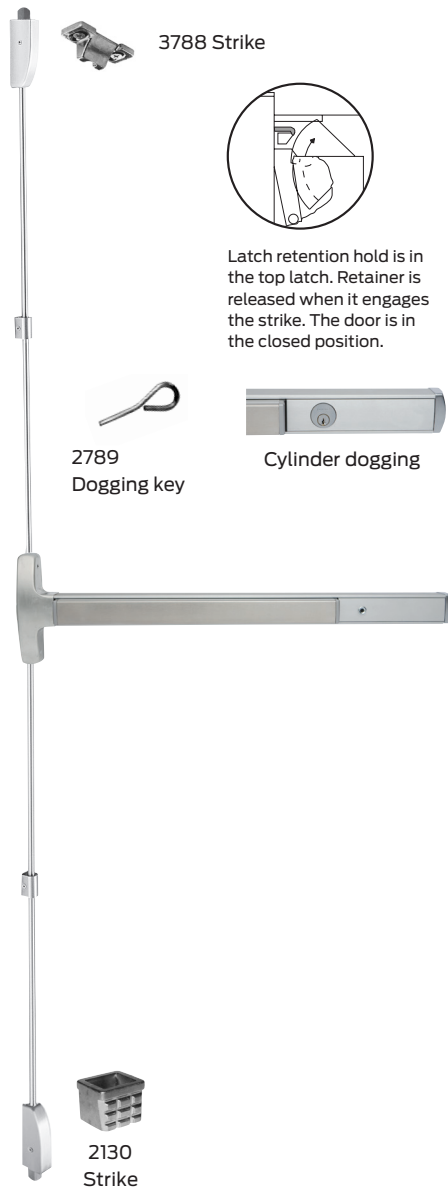
- CV
- 3 functions/4 finishes
- 2 length options
- 10-year warranty

# 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 $\frac{1}{4}$ "

# 24 Series

## Accessories and strikes

### Strikes

#### For rim devices



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



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



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



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



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

#### For surface and concealed vertical rod devices



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



**3788**  
Furnished top  
of (F)24-V.

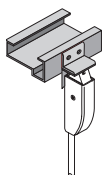


**4155**  
Optional strike.  
Panic device only.



**4188**  
Top strike for  
(F)24-C.

### Accessories



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



#### Surface vertical extension rods

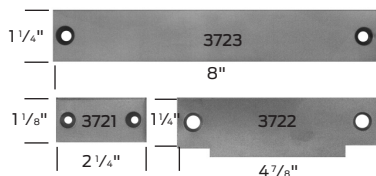
Extension rods are  
available in 12", 24"  
and 36" lengths in  
all finishes. Both  
ends tapped and  
all-thread included  
as connector.



#### Concealed extension rods

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

#### Filler plates



#### 3721/3722/3723

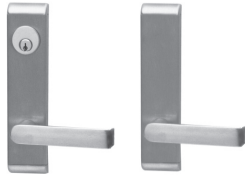
Steel filler plates

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

# 24 Series

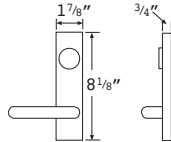
## Trim designs

### Lever trims (712L)



712L  
712L/NL

712L/DT  
712L/BE



### Knob trim (711K)



711K  
711-NL

Round ball knob  
Escutcheon: 8 1/8" x 1 7/8"  
Projection: 3 7/8"  
Brass  
For keyed functions, see page 26 for cylinder requirements.

### Athena (715)



715DT

Grip overall: 9 1/8"  
Width: 1 1/16"  
Pull: 6 1/4" C x C  
Projection: 2 1/4"

### 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"

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 & finish chart

### Function

	Lock/ unlock	NL	DT	BE	NLOP
Lever <sup>1</sup> (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		

<sup>1</sup> Specify hand.



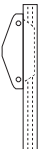












## 24 Series finishes

	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
<b>EO (01)</b> Exit only, no trim.	 <b>24-R-EO</b>	 <b>24-V-EO</b>	 <b>24-C-EO</b>
<b>DT (02)</b> 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.	 <b>24-R-DT</b>	 <b>24-V-DT</b>	 <b>24-C-DT</b>
<b>NL (03)</b> Entrance by trim when latchbolt is retracted by key. Key removable only when locked.	 <b>24-R-NL</b>	 <b>24-V-NL</b>	 <b>24-C-NL</b>
	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
<b>L or K (08)</b> Entrance by knob or lever. Key locks or unlocks knob.	 <b>24-R-L or K</b>	 <b>24-V-L or K</b>	 <b>24-C-L or K</b>
<b>L (NL) or K (NL) (09)</b> Entrance by knob or lever only when released by key. Key removable only when locked.	 <b>24-R-L or K(NL)</b>	 <b>24-V-L or K(NL)</b>	 <b>24-C-L or K(NL)</b>

# 24 Series

## Door application

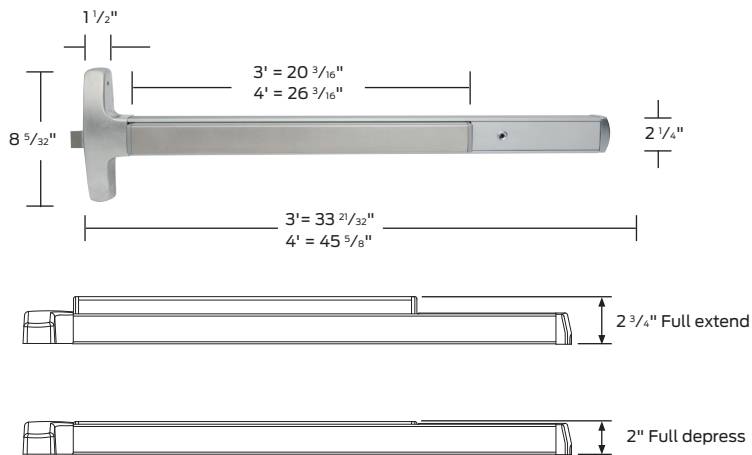
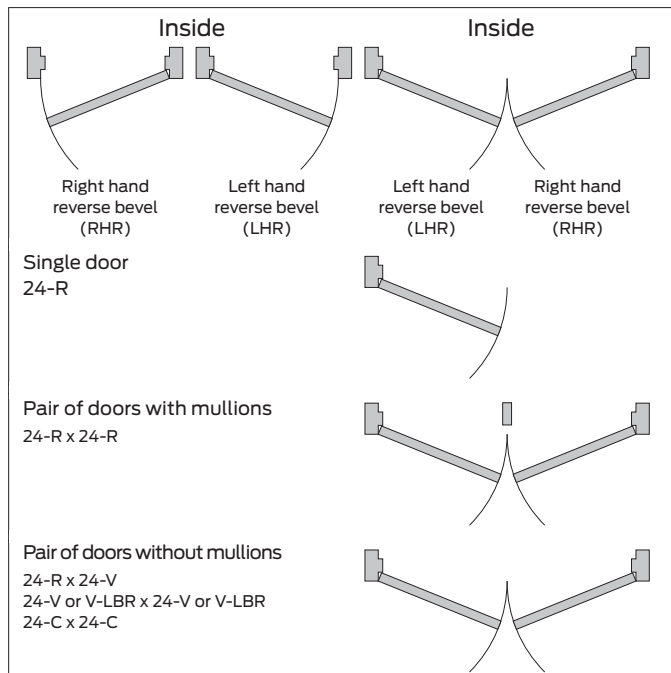
### Label doors

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 (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)<sup>1</sup>
- 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)<sup>2</sup>

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.

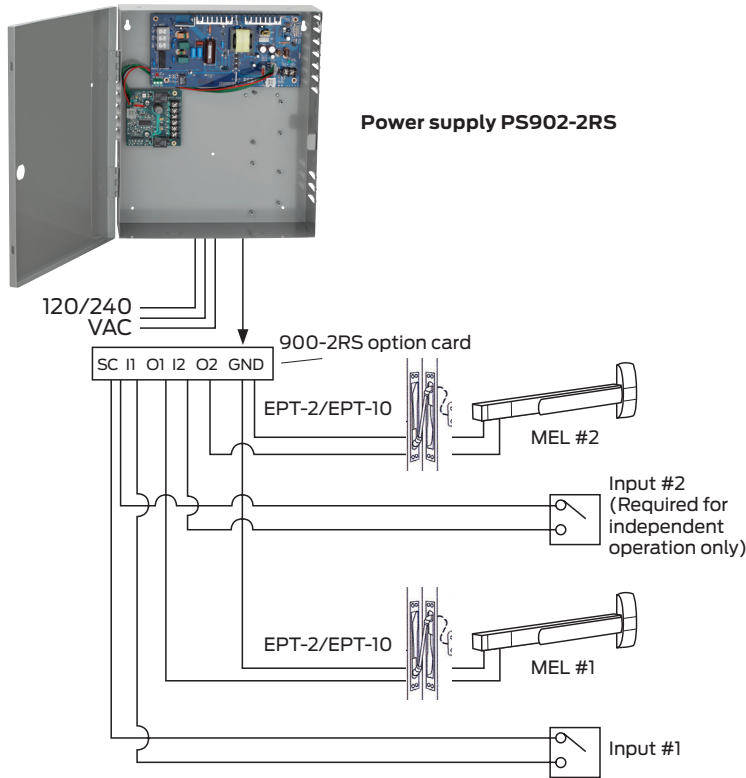


Model no.	Description	Part number	Part number with Allegion Connect (-CON)
25-MELK-3	25 Motorized electric latch retraction kit 3'	47266630	47266630
25-MELK-4	25 Motorized electric latch retraction kit 4'	47266631	47266631
24-MELK-3	24 Motorized electric latch retraction kit 3'	47266632	47266632
24-MELK-4	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 <sup>7</sup> / <sub>8</sub> "
		1439	2' 10 <sup>1</sup> / <sub>4</sub> "
		1606	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-24-R	4'	299	3' 5"
		264	3' 4 <sup>7</sup> / <sub>8</sub> "
		1439	3' 4 <sup>1</sup> / <sub>4</sub> "
		1606	3' 4 <sup>5</sup> / <sub>8</sub> "
MEL-24-C	3'	All	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-24-C	4'	All	3' 4 <sup>5</sup> / <sub>8</sub> "
MEL-24-V	3'	All	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-24-V	4'	All	3' 4 <sup>5</sup> / <sub>8</sub> "
MEL-25-R	3'	299	2' 11"
		264	2' 10 <sup>7</sup> / <sub>8</sub> "
		1439	2' 10 <sup>1</sup> / <sub>4</sub> "
		1606	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-25-R	4'	299	3' 5"
		264	3' 4 <sup>7</sup> / <sub>8</sub> "
		1439	3' 4 <sup>1</sup> / <sub>4</sub> "
		1606	3' 4 <sup>5</sup> / <sub>8</sub> "
MEL-25-C	3'	All	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-25-C	4'	All	3' 4 <sup>5</sup> / <sub>8</sub> "
MEL-25-V	3'	All	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-25-V	4'	All	3' 4 <sup>5</sup> / <sub>8</sub> "

### 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 <sup>3</sup> / <sub>4</sub> " minimum	1 <sup>1</sup> / <sub>2</sub> " offset pivots
0-180 degree opening with up to 5" butt hinges <sup>1</sup>	Larger than 6" butt hinges
0-130 degree opening with up to 5 <sup>1</sup> / <sub>2</sub> " butt hinges <sup>1</sup>	Pocket pivots
0-110 degree opening with up to 6" butt hinges <sup>1</sup>	Swing clear hinges
0-180 degree opening with up to 3 <sup>3</sup> / <sub>4</sub> " offset pivots <sup>1</sup>	Center hung doors (center pivot)
	Balanced door

1. Specifications only apply to a 1 <sup>3</sup>/<sub>4</sub>" thick door.

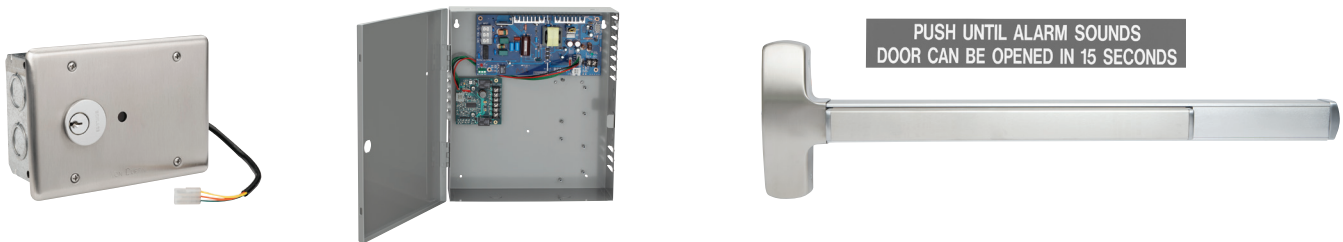
# Delayed egress system components

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.

# 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, 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 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
<b>Number of connectors on power supply for the following:</b>	<b>2 amps</b>	<b>4 amps</b>	<b>6 amps</b>	<b>4 amps</b>
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)	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

## 24 Series

\*Not available for F-24-R



# How to order

## Trim

		510	L	R	US26D	LHR	SUTRO	FSE	CYL
<b>24 Series</b>	<b>25 Series</b>								
711	510								
712	511								
715	512								
717	513								
718	717								
	718								
<b>Trim function (see trim pages for all functions)</b>									
<b>EO</b>	Exit only								
<b>DT</b>	Dummy trim								
<b>NL</b>	Night latch								
<b>C</b>	Cylinder trim less pull								
<b>TP</b>	Thumbpiece								
<b>Device type</b>									
<b>R</b>	Rim								
<b>V</b>	Surface vertical rod								
<b>C</b>	Concealed vertical rod (includes WDC)								
<b>M</b>	Mortise								
<b>Finish</b>									
<b>US3</b>	<b>US4</b>	<b>US10</b>	<b>US10B</b>	<b>US11</b>	<b>US15</b>	<b>US19</b>			
<b>US26</b>	<b>US26D</b>	<b>US32</b>	<b>US32D</b>	<b>SP28</b>	<b>SP313</b>				
<b>Handing</b>									
<b>RHR</b>	Right hand reverse								
<b>LHR</b>	Left hand reverse								
<b>Lever style</b>									
Dane (DAN)									
Sutro (SUT)									
Quantum (QUA)									
Avalon (AVA)									
Boardwalk (BRK)									
Broadway (BRW)									
Danish (DSH)									
Latitude (LAT)									
Longitude (LON)									
<b>Other miscellaneous door information</b>									
<b>FSA</b>	Electric Lock or Unlock-Fail Safe (FSA device required)								
<b>FSE</b>	Electric Lock or Unlock-Fail Secure (FSE device required)								
<b>CON</b>	Allegion Connect								
<b>Accessories</b>									
<b>CYL</b>	Cylinder								
<b>KD</b>	Cylinder keyed different								
<b>Door thickness</b>									
Specify door thickness other than 1 3/4"									

**FALCON®**

# Motorized Electric Latch Retraction-MEL

Featuring 24 and 25 Series  
exit devices



## Overview

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 Falcon 24 and 25 Series exit devices, except 25-M (mortise).

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 often incorporate 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
- 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
- Available with Allegion Connect (-CON) on full device and kits

## Specifications compliance

- MEL is designed for use on exit devices that are BHMA Certified to ANSI/BHMA A156.3
- Exit devices with MEL are UL and cUL Listed as "Panic Hardware" (UL 305) and as "Fire Exit Hardware" (UL 10C)
- The MEL Conversion Kit is UL Classified under "Accessories for Single-Point Locks and Latches and Fire Exit Hardware" (UL 10C)

## Electronic specifications

MEL electrical load		MEL wire run lengths	
Voltage	24 VDC	Distance (one way)	Wire gauge
Current	1.0 A Inrush (0.5 sec) 0.14 A Holding	200'	18 AWG
		320'	16 AWG
		500'	14 AWG
		800'	12 AWG

## Accessories

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. See table below for output ratings.

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

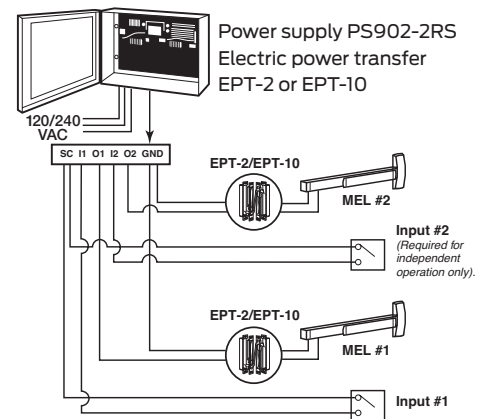
The MEL device is compatible with the following equipment: PS900 Series power supplies - PS902, 904, 906, 914; 900 Series Option Boards - 900-2RS, 900-4R and 900-4RL. The power transfer (EPT, electrified hinge, or door loop) is also sold separately. Please refer to Falcon catalog for more information on EPT-2/EPT-10 power transfers, electrified hinges, and PS900 series power supplies.

## How to order

- To order the MEL feature add "MEL" prefix to device designation (example: MEL-25-R-EO).  
NOTE: Mechanical dogging is not an option with MEL.
- To order the MEL conversion kit, please specify finish with part number (US3, US4, US10, US26, US26D, US32D, SP28, SP313). MEL conversion kits are only compatible with mechanical Falcon 24 and 25 series exit devices. MEL kits may not be used to convert an EL device.

Model No.	Description	Part number	Part number with Allegion Connect (-CON)
25-MELK-3	25 Motorized Electric Latch Retraction Kit 3'	47266630	47270546
25-MELK-4	25 Motorized Electric Latch Retraction Kit 4'	47266631	47270547
24-MELK-3	24 Motorized Electric Latch Retraction Kit 3'	47266632	47270548
24-MELK-4	24 Motorized Electric Latch Retraction Kit 4'	47266633	47270549

## Popular application



## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit [www.allegion.com](http://www.allegion.com).

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