



**TRADEMARK  
HARDWARE**

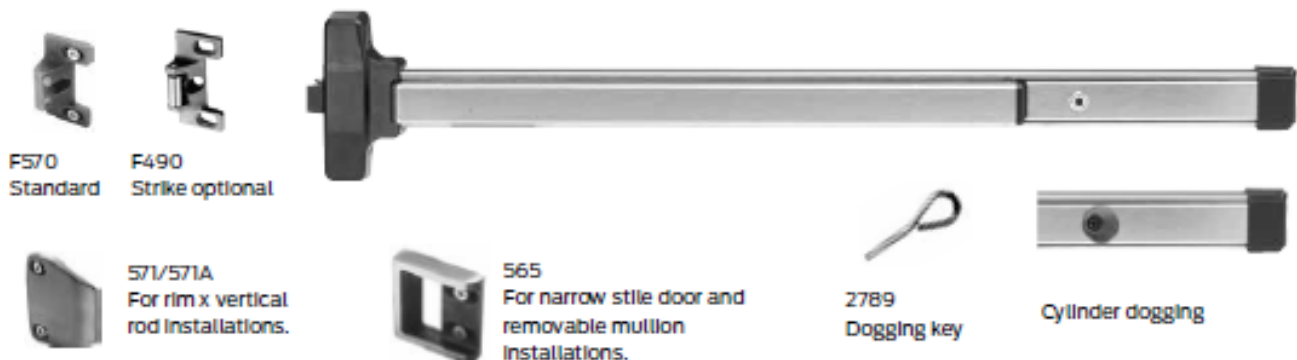
WORLD OF QUALITY HARDWARE

# PRODUCT SPECS

## 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 17.



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:	SP28, SP313, US32D. 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 1/4" 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.

## SKU: 19-R; F-19-R



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# FALCON 19-R; F-19-R

## TRIM DESIGN OPTIONS

### Control trim

SP28, SP313 and US-32D.

#### K-control L-control



**911K**  
BE  
NL



**L-Control-Avalon  
912L**  
BE  
L-DT  
NL



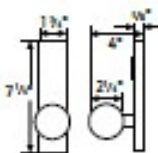
**L-Control-Dane  
912L**  
BE  
L-DT  
NL



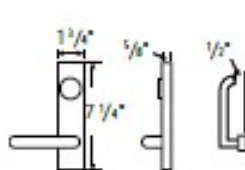
**L-Control-Sutro  
912L**  
BE  
L-DT  
NL



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



Key locks or unlocks trim. Knob retracts latchbolt when trim is unlocked.



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

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

#### DT-control

#### NL-control

#### Pull



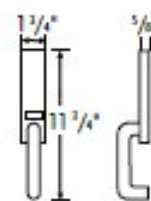
**918 DT**  
Pull when  
dogged.



**918NL**  
Key retracts  
latchbolt.



**9970**  
Can be used  
with all  
devices.



9 1/4" center to center  
2 1/4" projection  
1 1/4" 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



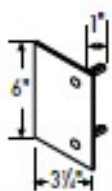
**914KIL**



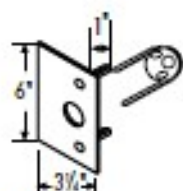
**914-KIL-IC**

\*For type 86 cutout specify 4174 inside cover plate.

### Centron trim



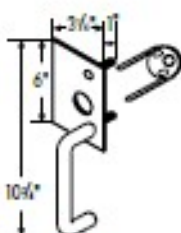
**930 EO**



**930 C**



**930 DT**



**930 NL**

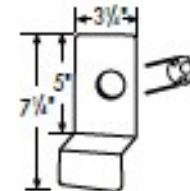


**Pull only 917 DT**  
CTC - 5 1/2" round - 3/4" dia.  
Pull when dogged.

### Trident trim



**920 DT**



**920 NL**

# FALCON 19-R; F-19-R



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## 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	—	—

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

### KIL

Device	KIL*	KIL-LS/LK*	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.



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

 Fire exit hardware    Use "F" prefix for fire exit hardware.

 Security monitor     Electric function

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

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







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# FALCON 19-R; F-19-R

## DOOR APPLICATIONS

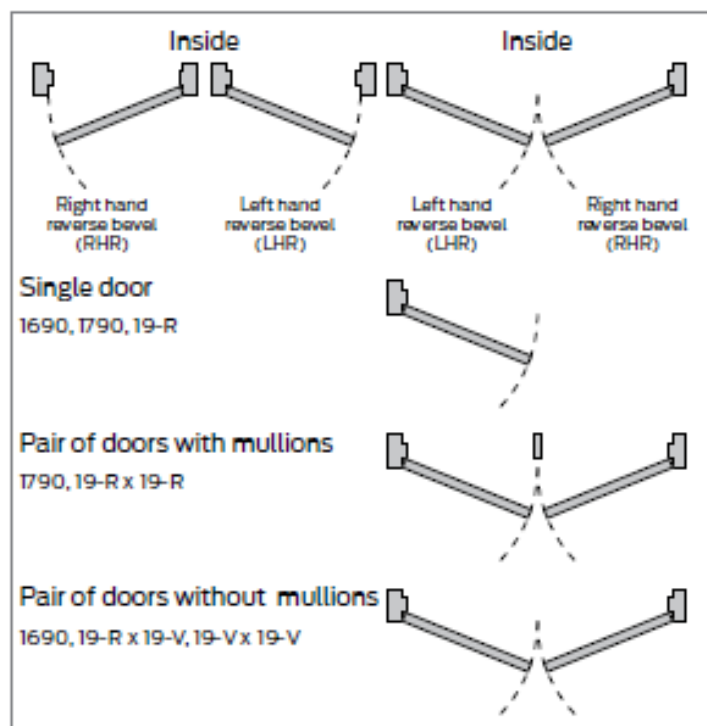
### Door thickness

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

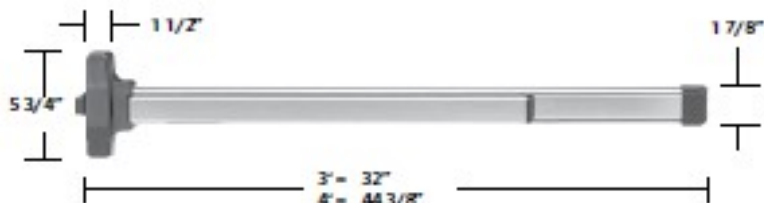
U.S. standard	BHMA	Description
US28	628	Anodized aluminum – clear
DC13	710	Anodized aluminum – dark bronze
DC35	711	Anodized aluminum – black
P28	689	Painted aluminum – silver
P13	695	Painted aluminum – dark bronze
P35	622	Painted aluminum – black
US3	666	Bright brass
US4	667	Satin brass
US9	705	Bright 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
<b>Hollow metal door</b>			
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
<b>Wood door</b>			
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:



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# FALCON 19-R; F-19-R STRIKES AND ACCESSORIES

## 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 1/16" (H x W x D)

### 1790 Rim device



#### STK45

Strike for inactive leaf, pair of doors with 1790 device. 3 1/4" x 1 1/16" 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 1/8" x 1 1/4" x 9/16" (H x W x D)



#### F490

Optional strike. 2 1/8" x 1 1/4" x 1/4" (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 1/16" 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

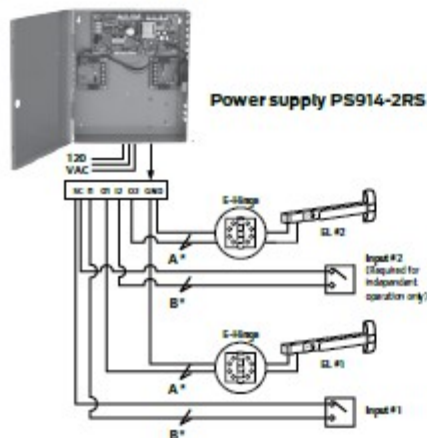
Angle bracket for 19-V devices flush transom applications. Does not require elimination of latch retention feature.



#### Extension rods

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

## Popular EL application



### EL Device wire selection size

A*	Run length	EL device w/EPT or door loop
	0-100 ft.	14 gauge
	100-200 ft.	12 gauge
A*	Run length	EL device w/electric hinge/pivot
	0-75 ft.	14 gauge
	76-150 ft.	12 gauge
B*	Wire selection	Switch wire size
	1200 ft. max.	18 gauge





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# FALCON 19-R; F-19-R

## PRODUCT SPECS

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-BP 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-BP 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 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







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# FALCON 19-R; F-19-R

## PRODUCT SPECS



F-4023 Shown

### Mullions



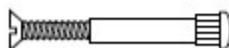
RM 170



Mullion brackets



525 Mullion stabilizer  
for RM170



### 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)

### 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 1/8" 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.

### 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 1/4". 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

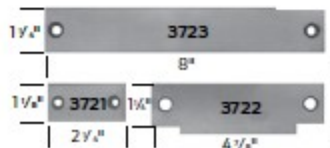
Adjustable mortise strikes (pair).

2 7/8" tall

1 3/4" wide

1" thick

### Filler plates



### 3721/3722/3723

Steel filler plates

3721 Cylindrical lock frontfiller  
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

