

FALCON

*Falcon
Monarch
Dor-O-Matic*

Monarch XX Series

Crossbar Exit Device



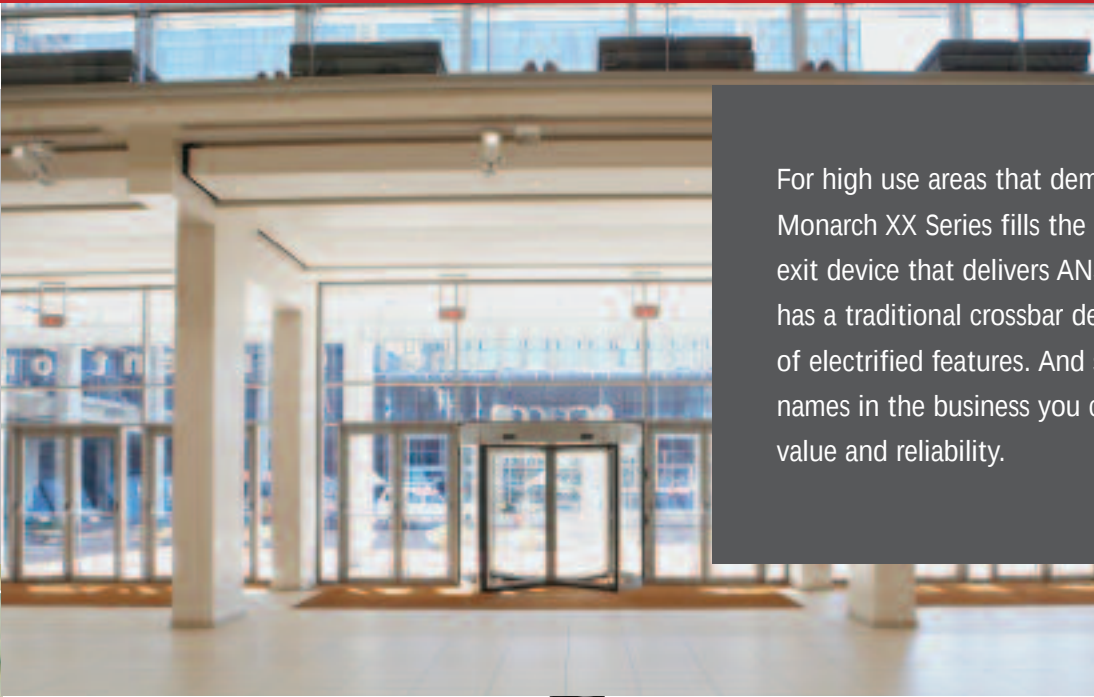
THE FALCON DIFFERENCE

S A F E T Y , S E C U R I T Y A N D U N C O M P R O M I S I N G V A L U E

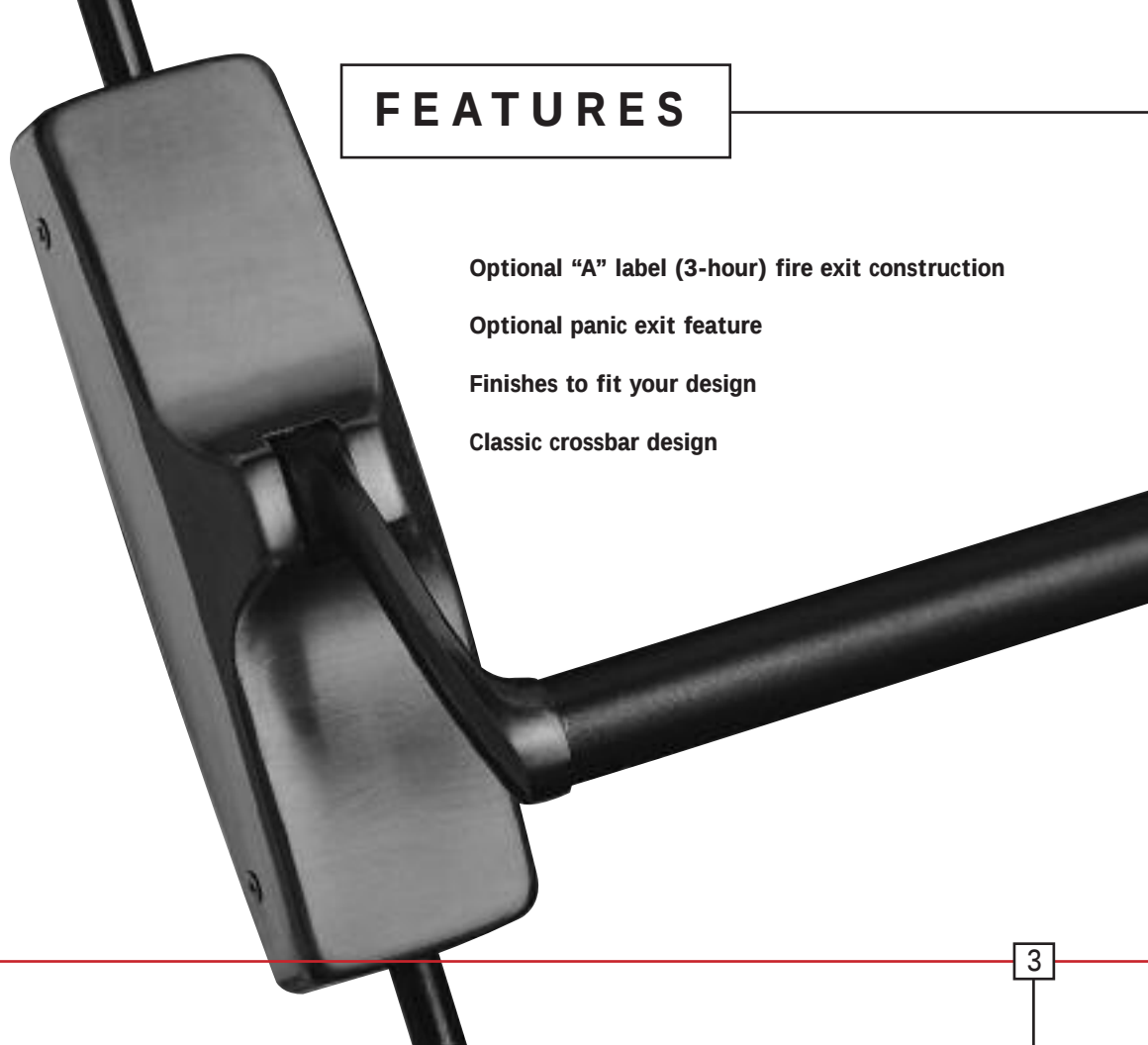
At Falcon, we know that every product you sell not only has to meet local building codes, but also your expectations for performance and quality. We take your expectations seriously, and that's why we build our door hardware to deliver durability, convenience and unmatched value. After all, we've built 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 door hardware a powerful choice no matter what your project.



MONARCH XX SERIES



For high use areas that demand high-performing products, the Monarch XX Series fills the bill with a sleek, tough and attractive exit device that delivers ANSI Grade 1 performance. The XX Series has a traditional crossbar design that is available with a full range of electrified features. And since it's backed by one of the best names in the business you can be sure you're getting the utmost value and reliability.



FEATURES

Optional "A" label (3-hour) fire exit construction

Optional panic exit feature

Finishes to fit your design

Classic crossbar design

ADDITIONAL INFORMATION

How to Order Sequence Example

Prefixes

CD	Cylinder Dogging
AE	Touchbar Request to Exit
DM	Latchbolt and Device Monitor Switch
LK	Locking Trim Monitor Switch
LM	Latchbolt Status Switch
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

XX	Crossbar Device
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Device Type

R	Rim	C	Concealed Vertical rod
V	Surface 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	TL	Thumb Lever
C	Cylinder Trim Less Pull	KIL	Key in Lever
TP	Thumbpiece		

Latch Option

-2	Double Cylinder, Inside Lock/Unlock of Trim	DL	Dead Locking
-20C	Dual Outside Cylinder Operation		

Finish

US3	US10	US26	US32
US4	US10B	US26D	US32D

Door Width

—	Specify Exact Door Width
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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
RCB	Reinforced Crossbar

Accessories

CYL	Cylinder	SNB	Sex Bolts
		AMS	All Machine Screws

Other Miscellaneous Door Information

HMD	Hollow Metal Door	SCDC	Steel Channel Door Construction	—	Door Label (20 min, 45 min, 90 min 1-1/2 hr)
HMF	Hollow Metal Frame	—	Specify other Door or Frame	—	Stile Width
WD	Wood Door		Material information	—	Frame Stop Height
WDF	Wood Frame	—	Door Height	SGL	Single Door
ALD	Aluminum Door	—	Door Thickness	PR	Pair of Doors Swinging Same Direction
ALF	Aluminum Frame	—	Door Undercut	DE	Double Egress Doors

DOOR APPLICATION

Label Doors

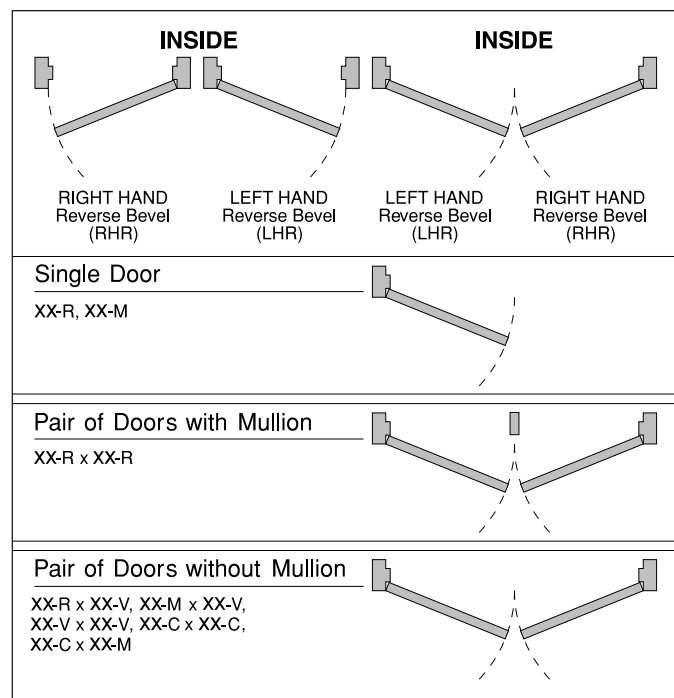
Monarch models F-XX-R, F-XX-V, F-XX-M, and F-XX-C are labeled for use as  fire exit hardware. UL and Warnock Hersey listed.

Door Thickness

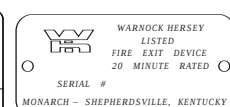
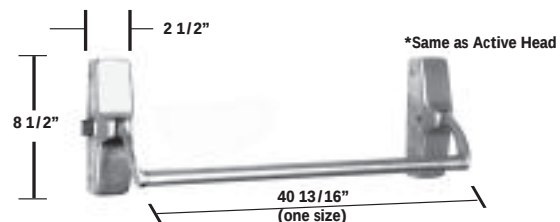
All devices and components supplied for 1 $\frac{3}{4}$ " doors standard. Specify door thickness if other than 1 $\frac{3}{4}$ ".

DEVICE	Label	Opening	Application
Hollow Metal Door			
F-XX-R	3 hr.	4' x 8'	Single, pair, same egress w/ F-4023 Mullion or KR-F4023 Mullion (1 $\frac{1}{2}$ hr.)
	"A"	8' x 8'	
F-XX-M	3 hr.	4' x 10'	Single, pair, same egress
	"A"	8' x 10'	F-XX-M x F-XX-V or F-XX-M x F-XX-C
F-XX-V	3 hr.	4' x 10'	Pair, double egress, same egress
	"A"	8' x 10'	F-XX-M x F-XX-V
F-XX-C	3 hr.	4' x 10'	Pair, double egress, same egress
	"A"	8' x 10'	F-XX-M x F-XX-C
F-XX-V-LBR	3 hr.	4' x 8'	Pair, double egress, same egress
	"A"	8' x 8'	
F-XX-C-LBR	3 hr.	4' x 8'	Pair, double egress, same egress
	"A"	8' x 8'	
Wood Door			
F-XX-C-WDC	45 min.	4' x 8'	Pair, wood comp., double egress (steel channel construction)
		8' x 8'	
F-XX-C-WDC	1 $\frac{1}{2}$ hr.	4' x 8'	Pair, wood comp., same egress (steel channel construction)
	"B"	8' x 8'	
F-XX-C-WDC-LBR	20 min.	4' x 8'	Pair, wood comp., same/double egress (steel channel construction)
		8' x 8'	
F-XX-C-WDC	20 min.	4' x 9'	Pair, wood comp., same egress (reinforcement plates)
		8' x 9'	
F-XX-V-LBR	20 min.	4' x 8'	Pair, wood comp., double egress, same egress
		8' x 8'	
F-XX-C-WDC-LBR	20 min.	4' x 9'	Pair, wood comp., same egress (reinforcement plates)
		8' x 9'	

Door Application Chart



Device Dimensions



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

NON-HANDED RIM DEVICE XX-R SERIES

Panic Exit Hardware

The Monarch XX-R Series Rim Device is produced to meet the demanding requirements of higher traffic installations. This device is a single point, rim type latch with the traditional crossbar design.

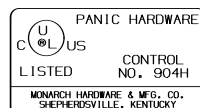


DEVICE	Length	Strike	Min. Stile	Door Opening Width
XX-R-EO	4'	565 Flush	3 1/4"	2'6" up to 3'10"
		565	3 3/4"	2'6" up to 3'11"
		F570/F490	4"	2'6" up to 4'0"
		579	3 1/2"	2'6" up to 3'10"

Note: See page 15 for additional strike information.
Approximate. See appropriate templates.

Specifications

Hand:	Field reversible.
Functions:	All functions built into "EO" (Exit Only) device. For K or L trim, add 3755 K hub. See Trim Selection Chart on pages 16 and 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).
Strikes:	F570 adjustable strike standard. 565, 571, 571A, 579, F490 strike optional.
Arms:	Forged brass, aluminum and investment cast stainless steel.
Crossbars:	1" O.D., brass, bronze and stainless steel. Reinforced crossbars available.
Latchbolt:	Stainless steel, 3/4" throw.
Deadlocking Latchbolt:	Optional. Specify "DL" prefix.
Dogging Feature:	1/2 turn hex dogging standard. No threaded parts to wear out.
Cylinder Dogging:	Specify "CD" prefix. Uses rim cylinder (supplied).
Stock Sizes:	4'0" standard.
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projection:	5" maximum; 4" dogged.
Mounting Height:	40 1/4" from CL to finished floor.
Electric Function:	Can be interfaced with building security systems. Lock/unlock and security monitoring available. (See separate electrical brochure.)
Fasteners:	All mounting screws are concealed. Sheet metal screws standard. Machine screws available, specify AMS.
Sex Bolts:	When device is used with hollow core wood, composite or light gauge Hollow Metal doors, specify 8-#2729 SNB when through-bolted trims is used, specify 4-#2729 SNB.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Double Cylinder:	ANSI functions 07 and 10, specify TP2, K2 or L2.
Double Outside Cylinder:	ANSI functions 07 and 10 with both cylinders on outside. Specify TP(2 O.C.), K(2 O.C.) or L(2 O.C.).
Center Case & Working Parts:	Center case is pressure die cast aluminum with heavy wrought, forged, investment cast and sintered metal parts.



NON-HANDED RIM DEVICE F-XX-R SERIES

🔥 Fire Exit Hardware

The Monarch F-XX-R Series 🔥 Fire Rated Rim Device is produced with the demanding standards required for a quality fire rated device. The investment cast stainless steel chassis, stainless steel latchbolt and standard deadlocking feature provide years of reliable service in higher traffic installations. The F-XX-R device is a single point, rim type latch with the traditional crossbar design.



DEVICE	Length	Strike	Min. Stile	Door Opening Width
F-XX-R-EO	4"	F570/ F490	4"	2' 6" up to 4' 0"

Note: Approximate. See appropriate templates.

Specifications

Hand:	Field reversible.
UL:	"A" label (3 hr.); 4' 0" x 8' 0"; 8' 0" x 8' 0". "B" label (1½ hr.) 8' 0" x 8' 0" with KRF-4023 mullion.
Functions:	All functions built into "EO" (Exit Only) device. For K or L trim, add 3755 K hub. See Trim Selection Chart on pages 16 and 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).
Strikes:	Stainless steel, F570 or F490.
Arms:	Forged brass, aluminum and investment cast stainless steel.
Crossbars:	1" O.D., brass, bronze and stainless steel. Reinforced and crossbars available.
Latchbolt:	Stainless steel, ¾" throw.
Deadlocking Latchbolt:	Standard.
Stock Sizes:	4' 0" standard.
Doors:	1¾" thick, wood or metal. Specify thickness if other than 1¾".
Projection:	5" maximum.
Mounting Height:	40¼" from CL to finished floor.
Electric Function:	Can be interfaced with building security systems. Lock/unlock and security monitoring available. Subject to code requirements, state and local. (See separate electrical brochure.)
Fasteners:	All mounting screws are concealed. Furnished with all machine screws.
Sex Bolts:	When used with wood, composite or non-reinforced Hollow Metal, sex bolts must be specified, 10-#2729 SNB required. If through-bolted trim is used, 6-#2729 SNB required.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Double Cylinder:	ANSI functions 07 and 10, specify TP2, K2 or L2.
Double Outside Cylinder:	ANSI functions 07 and 10 with both cylinders on outside. Specify TP(2 O.C.), K(2 O.C.) or L(2 O.C.).
Center Case & Working Parts:	Center case is investment cast stainless steel with heavy wrought, forged, investment cast and sintered metal parts.



REVERSIBLE VERTICAL ROD DEVICE XX-V SERIES

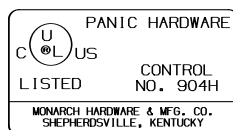
Panic Exit Hardware

The Monarch XX-V Series Vertical Rod Device is designed to meet the demanding requirements of higher traffic installations. The XX-V device is a surface-applied (including strikes) vertical rod type with the traditional crossbar design.



Specifications

Hand:	Field reversible.
Functions:	See Trim Selection Chart pages on 16 & 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).
Strikes:	3788 strikes are surface applied. 2130 strike is mortised into floor.
Angle Bracket:	Use 4215 angle bracket in flush transom installations. Allows use of standard 3788 strike.
Arms:	Forged brass, aluminum and investment cast stainless steel.
Crossbars:	1" O.D., brass, bronze and stainless steel. Reinforced crossbars available.
Latchbolt:	Top stainless steel, 3/4" throw. Bottom stainless steel bolt, 1/2" throw.
Deadlocking Latchbolt:	Standard.
Latch Retention Hold:	Standard with top latch.
Dogging Feature:	1/2 turn hex dogging standard. No threaded parts to wear out.
Cylinder Dogging:	Specify "CD" prefix, uses rim cylinder.
Stock Sizes:	4'0" standard.
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projection:	5" maximum, 4" dogged.
Stile:	2 3/4" minimum when used in pairs.
Electric Function:	Can be interfaced with building security systems. Lock/unlock and security monitoring available. (See separate electrical brochure.)
Fasteners:	All mounting screws are concealed. Sheet metal screws standard. Machine screws available, specify AMS.
Sex Bolts:	When device is used with hollow core, composite or light gage Hollow Metal, specify 14-#2729 SNB. When used with through-bolted trim, deduct 4 SNB.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
XX-V:	Latch retention latch top. 3788 strike top, bottom bolt 2130 flush strike bottom.
XX-V-LBR:	Less bottom rod vertical device.
Vertical Rods:	Furnish to length based on a 40 3/4" horizontal CL from finished floor, and a 7'0" door standard. Variations from these standards must be specified when ordering.



REVERSIBLE VERTICAL ROD DEVICE F-XX-V SERIES

🔥 Fire Exit Hardware

The Monarch F-XX-V Series 🔥 Fire Rated Vertical Rod Device is designed to meet the demanding requirements of higher traffic installations. The F-XX-V is a surface-applied (including strikes) vertical rod type with the traditional crossbar design.

3788
Strike



2130 Strike

Specifications

Hand:	Field reversible.
UL:	"A" label (3 hr.); 8' 0" x 10' 0" double egress; 8' 0" x 10' 0" (F-XX-M x F-XX-V).
Functions:	See Trim Selection Chart on pages 16 & 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).
Strikes:	3788 strikes are surface applied, standard. 2130 strike is mortised into floor.
Arms:	Forged brass, aluminum and investment cast stainless steel.
Crossbars:	1" O.D., brass, bronze and stainless steel. Reinforced crossbars available.
Latchbolt:	Top stainless steel, 3/4" throw. Bottom stainless steel bolt, 1/2" throw.
Deadlocking Latchbolt:	Standard.
Latch Retention Hold:	Standard with top latch.
Stock Sizes:	4' 0" standard.
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projection:	5" maximum.
Stile:	2 3/4" minimum when used in pairs.
Electric Function:	Can be interfaced with building security systems. Lock/unlock and security monitoring available. Subject to code requirements, state and local. (See separate electrical brochure.)
Fasteners:	All mounting screws are concealed. All machine screws standard.
Sex Bolts:	When device is used with wood, composite or non-reinforced Hollow Metal, specify 14-#2729 SNB. When used with through-bolted trim, deduct 4-#2729 SNB.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
F-XX-V:	Latch retention latch top. 3788 strike top, bottom bolt 2130 flush strike bottom.
F-XX-V-LBR:	Less bottom rod vertical device with side-of-door-mounted auxiliary fire latch (AFL), "A" label (3 hr.), 8' 0" x 8' 0" double egress. (20 min. fire rating on wood doors.)
Vertical Rods:	Furnished to length based on a 40 3/4" horizontal CL from finished floor, and a 7' 0" door standard. Variations from these standards must be specified when ordering.



REVERSIBLE MORTISE DEVICE XX-M SERIES

Panic Exit Hardware

The Monarch XX-M Series Mortise Device offers great value with attractive styling and the security of a mortise lock. This device is a single-point, mortise latch type featuring the traditional crossbar design. The heart of the XX-M device is the Monarch mortise lock, which is known for its reliability and trouble-free operation.



Specifications

Hand:	Easily reversible.
Functions:	Mortise lock determines function. When ordering device only, specify device with function less trim. See Trim Selection Chart on pages 16 and 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).
Strikes:	1279 standard; F1280/1280A and 1281 optional.
Arms:	Forged brass, aluminum and investment cast stainless steel.
Crossbars:	1" O.D., brass, bronze, and stainless steel. Reinforced crossbars available.
Latchbolt:	¾" throw.
Deadlocking Latchbolt:	Standard.
Dogging Feature:	½ turn hex dogging standard. No threaded parts to wear out.
Cylinder Dogging:	Specify "CD" prefix. Uses standard rim cylinder.
Stock Sizes:	4'0" standard.
Doors:	1¾" thick, wood or metal. Specify thickness if other than 1¾".
Projection:	5" maximum, 4" dogged.
Stile:	4½" minimum.
Electric Function:	Can be interfaced with building security systems. Lock/unlock and security monitoring available. (See separate electrical brochure.)
Mounting Height:	40¼" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990.
Fasteners:	All mounting screws are concealed. Sheet metal screws standard for device, mortise lock is machine screws. All machine screws available, specify AMS.
Sex Bolts:	When device is used with hollow core wood, composite or light gauge Hollow Metal, specify 8-#2729 SNB. When through-bolted trim is used, specify 4-#2729 SNB.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Double Cylinder:	ANSI functions 07 and 10; specify TP2, K2 or L2.
Mortise Lock:	Heavy wrought lock case with investment cast or sintered stainless steel parts. Lock face is forged brass—fits standard cutout. Locks are designed to fit standard preparation ANSI A115.1 for 1¾" doors. Deadlocked when auxiliary bolt is depressed ⅝".



REVERSIBLE MORTISE DEVICE F-XX-M SERIES

🔥 Fire Exit Hardware

The Monarch F-XX-M Series 🔥 Fire Rated Mortise Device offers great value, good looks and security of a mortise lock. This device is a single-point, mortise-latch type, featuring the traditional crossbar design. The heart of the F-XX-M device is the Monarch mortise lock, which is known for its reliability and trouble-free operation.



1279
Standard Strike



F1280
Optional Strike



Specifications

Hand:	Easily reversible.
UL:	"A" label (3 hr.); 4' 0" x 8' 0"; 8' 0" x 10' 0" (F-XX-M x F-XX-V or F-XX-C). "B" label (1½ hr.) with F1280 open back strike.
Functions:	Mortise lock determines function. When ordering, specify device with function less trim. See Trim Selection Chart on pages 16 and 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).
Strikes:	1279 standard. F1280 optional, "B" label (1½ hour).
Arms:	Forged brass, aluminum and investment cast stainless steel.
Crossbars:	1" O.D., brass, bronze and stainless steel. Reinforced crossbars available.
Latchbolt:	¾" throw.
Deadlocking Latchbolt:	Standard.
Stock Sizes:	4' 0" standard.
Doors:	1¾" thick, wood or metal. Specify thickness if other than 1¾".
Projection:	5" maximum.
Stile:	4½" minimum.
Electric Function:	Can be interfaced with building security systems. Lock/unlock and security monitoring available. Subject to code requirements, state and local. (See separate electrical brochure.)
Mounting Height:	40¼" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990.
Fasteners:	All mounting screws are concealed. All machine screws standard.
Sex Bolts:	When device is used with wood, composite or non-reinforced Hollow Metal doors, specify 8-#2729 SNB. When through-bolted trim is used, specify 4-#2729 SNB.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Double Cylinder:	ANSI function 07 and 10, specify TP2, K2 or L2.
Mortise Lock:	Heavy wrought lock case with investment cast or sintered stainless steel parts. Lock face is forged brass—fits standard cutout. Locks are designed to fit standard preparation ANSI A115.1 for 1¾" doors. Deadlocked when auxiliary bolt is depressed ⅝".



REVERSIBLE CONCEALED VERTICAL ROD DEVICE XX-C SERIES

Panic Exit Hardware

The Monarch XX-C Series Concealed Vertical Rod Device offers great value and design with the security of two-point latching and panic exit functionality. The XX-C device is a concealed vertical rod type with the traditional crossbar design.



Specifications

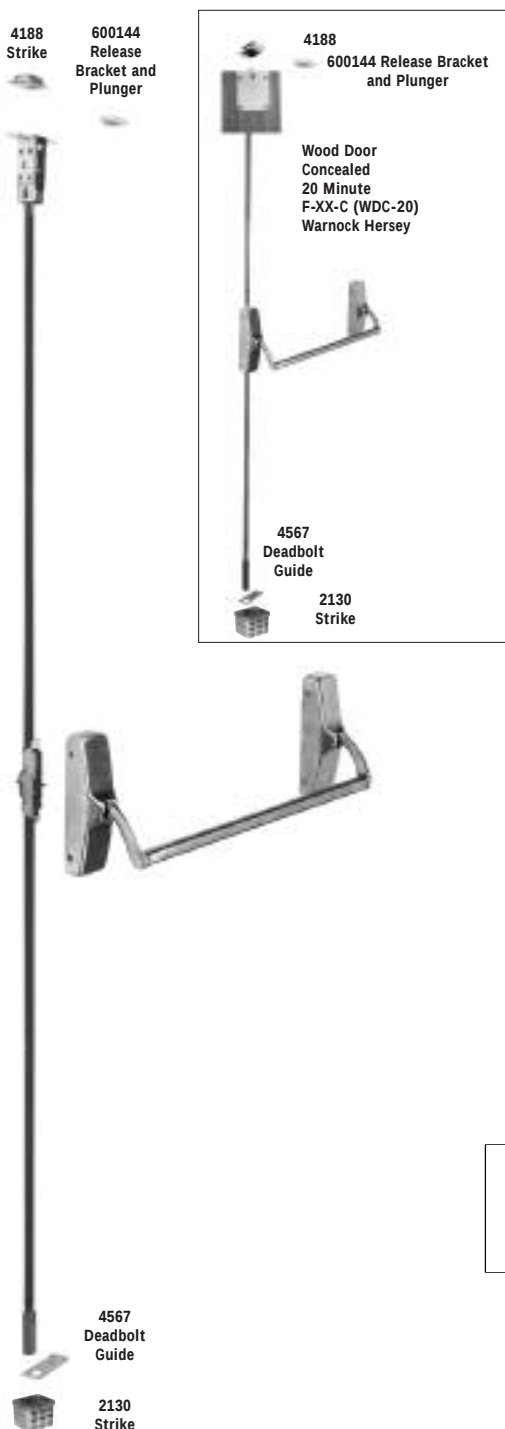
Hand:	Handed, specify when ordering.
Functions:	See Trim Selection Chart on pages 16 & 17. Delta trim only.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).
Strikes:	4188 mortised top; 2130, 2126A and 4155 flush strike bottom.
Arms:	Forged brass, aluminum and investment cast stainless steel.
Crossbars:	1" O.D., brass, bronze and stainless steel. Reinforced crossbars available.
Latchbolt:	Top stainless steel, 3/4" throw. Bottom stainless steel bolt, 1/2" throw.
Deadlocking Latchbolt:	Standard.
Latch Retention Hold:	Standard in top latch.
Dogging Feature:	1/2 turn hex dogging standard. No threaded parts to wear out.
Cylinder Dogging:	Specify "CD" prefix. Uses standard rim cylinder.
Stock Sizes:	4'0" standard.
Doors:	1 3/4" thick, metal or wood. Specify thickness if other than 1 3/4".
Projection:	5" maximum, 4" dogged.
Stile:	3" minimum when used in pairs. (6" minimum on wood doors.)
Electric Function:	Can be interfaced with building security systems. Security monitoring available. (See separate electrical brochure.)
Fasteners:	All mounting screws are concealed. Sheet metal screws standard. Machine screws available, specify AMS.
Sex Bolts:	When non-reinforced hollow metal doors are used specify 8-#2729 SNB; with through-bolted trim, use 4-#2729 SNB.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
XX-C-LBR/XX-C-WDC-LBR:	Reinforcement plates supplied standard for wood door only.
Vertical Rods:	Furnished to length based on a 40 1/4" horizontal CL from finished floor, and a 7'0" door standard. Variations from these standards must be specified when ordering.
Patented Centerslide:	For ease of adjustment.



REVERSIBLE CONCEALED VERTICAL ROD DEVICE F-XX-C SERIES

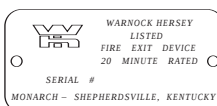
Fire Exit Hardware

The Monarch F-XX-C Series Fire Rated Concealed Vertical Rod Device offers dependable value, classic styling and aesthetics with the security of two-point latching. The F-XX-C device is a concealed vertical rod type with the traditional crossbar design.



Specifications

Hand:	Handed, specify when ordering.
UL:	"A" label (3 hr.); 4' 0" x 10' 0"; 8' 0" x 10' 0"; (F-XX-M x F-XX-C). Fire rated wood door concealed 4' 0" x 8' 0" single, 90 min.; 8' 0" x 8' 0" double egress, 45 min. (specify WDC-90); 20 min. wood door, 8' 0" x 9' 0", (specify WDC-20 Warnock Hersey label).
Functions:	See Trim Selection Chart on pages 16 & 17. Delta trim only.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).
Strikes:	4188 mortised top; 2130 flush strike bottom.
Arms:	Forged brass, aluminum and investment cast stainless steel.
Crossbars:	1" O.D., brass, bronze and stainless steel. Reinforced crossbars available.
Latchbolt:	Top stainless steel, 3/4" throw. Bottom stainless steel bolt, 1/2" throw.
Deadlocking Latchbolt:	Standard.
Latch Retention Hold:	Standard in top latch.
Stock Sizes:	4' 0" standard.
Doors:	1 3/4" thick metal or wood only. Specify thickness if other than 1 3/4". 6" minimum on wood doors
Projection:	5" maximum.
Stile:	3" minimum when used in pairs. 6" minimum on wood doors.
Electric Function:	Can be interfaced with building security systems. Security monitoring available. Subject to code requirements, state and local. (See separate electrical brochure.)
Fasteners:	All mounting screws are concealed. All machine screws standard.
Sex Bolts:	When non-reinforced Hollow Metal doors are used, specify 8-#2729 SNB; with through-bolted trim, use 4-#2729 SNB.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
F-XX-C-LBR:	Less bottom rod concealed vertical device with side-of-door mounted auxiliary fire latch (AFL) "A" label (3 hr.), 8' 0" x 8' 0" double egress.
F-XX-C-WDC-LBR:	Less bottom rod concealed vertical device with side-of-door mounted auxiliary fire latch (AFL). Wood door 20 min. device, 4' 0" x 9' 0", 8' 0" x 9' 0" (with top latch reinforcement plates) 20 min., 4' 0" x 8' 0", 8' 0" x 8' 0" (with steel channel door construction).
WDC-20:	Reinforcement plates supplied standard for 20 min. wood doors only.
Vertical Rods:	Furnished to length based on a 40 3/4" horizontal CL from finished floor, and a 7' 0" door standard. Variations from these standards must be specified when ordering.
Patented Centerslide:	For ease of adjustment.





Removable Mullion

- The 2923, (F)4023 and KR(F)-4023 steel mullions are for use with the XX-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.
- Monarch 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. Please see Price Book for ordering information.
- The (F)4023 and KR(F)-4023 fire-rated mullion also includes 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 1½" mortise cylinders with standard "A" cam.

Mullion Features

- Mullion fittings – ductile iron.
- (F)4023, cylinder removable mullions KR(F)-4023 - 2" x 3" x height.
- 2923 mullion – 1½" x 2½" x height.
- Prime coat only.
- 7' or 8' door opening standard, other door openings as specified.

Cylinders

- Cylinders for XX-R and XX-V Series devices with cylinder operation are rim cylinders with either horizontal or vertical tailpiece.
- Cylinders for XX-C and, XX-M and Series devices are mortise cylinders with standard thread (1½" -32). The standard cams furnished with most manufacturers' mortise cylinders will operate mortise locks, as well as concealed Delta trim operators for XX-C devices. (Cams measure approximately 1" overall and 5/16" wide at tip.) Exception: Concealed C & NL require cam supplied by factory.
- Cylinder supplied only when specified.
- 1½" long with standard cam and 'C' keyway only.
- On Delta C trim for vertical and concealed vertical C and NL functions 1" long cylinder by 1/8" blocking ring required with cam supplied by Monarch.
- Cylinders available keyed alike and keyed different.
- Mortise double cylinder functions use rim cylinder inside with 2¼" long tailpiece.
- XX-M devices using 811K or 812L trim require a 1½" cylinder.

Sex Bolts

Sex bolts are available in lengths (under the head) of 1²¹/₃₂". Screws to fit are available in ¾" and 2" lengths to cover a wide range of door thicknesses.

B-2729 (#10-24 Thread)

B-4122 (1/4-20 Thread)



STRIKES AND ACCESSORIES

Strikes

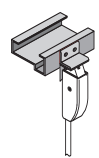
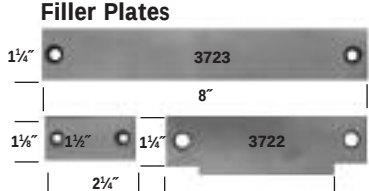
For (F) XX-R Rim Devices (center latching)

 565 Adjustable surface mounted for use with blade or applied stops.	 F570/F490 Adjustable strike.	 571/571A Used on inactive leaf for device on active leaf of pair of doors without removable mullion. 571 keeps 2$\frac{1}{8}$" backset. 571A is trimmer and projects less into opening.	 579 Semi-surface strike which allows use of XX-R on narrower stile widths as low as 3$\frac{1}{2}$". Also used for low projection.
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For All Mortise Lock Devices (F) XX-M

 1279 To ASA dimensions. Closed strike used on single doors and on fire exit hardware doors with coordinator.	 F1280 Open back strike used on pairs of 1$\frac{3}{4}$" doors without astragal or coordinator. To basic ASA dimensions and can be used on stock hollow metal doors. Use 1280A for 2$\frac{1}{4}$" doors. F-1280 B label (1$\frac{1}{2}$ hr.) stainless steel strike available.	 1281 Open back strike for 1$\frac{3}{4}$" doors. 8" x 1$\frac{1}{2}$" ears allow use in mortise lock cutout of stock Hollow Metal door.	 4188 Top strike for (F)XX-C.
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For (F) XX Surface Vertical Rod and Concealed Vertical Rod Devices

 4215 Angle bracket for flush transom applications. Does not require elimination of latch retention feature.	 3788 Standard top of (F) XX-V.	 2126A (F)XX-V optional bottom strike. (F)XX-C bottom strike.
 4155 4155 bottom strike for use with (F)XX-V and (F)XX-C.	 2130 (F)XX-V standard bottom strike for grouting into concrete or masonry floors. Also used with (F)XX-C.	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

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.

TRIM DESIGNS

Vanguard (820)



820 TP 820 NL

Escutcheon: 2 $\frac{5}{8}$ " x 16"
Grip: 6 $\frac{1}{4}$ " C-C
Projection: 2 $\frac{1}{16}$ "
Brass, Bronze,
Stainless Steel
and Aluminum

Apollo (810)



810TP 810NL

Pull: 5 $\frac{1}{2}$ " OC
Escutcheon: 3 $\frac{1}{4}$ " x 15"
Projection: 2 $\frac{1}{4}$ "
Brass, Bronze,
Stainless Steel
and Aluminum

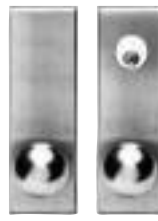
Athena (815)



815NL 815TP

Grip Overall: 9"
Width: 1 $\frac{5}{8}$ "
Pull: 6 $\frac{1}{4}$ " C-C
Projection: 2 $\frac{1}{4}$ "
Brass, Bronze, Plated
and Aluminum

811K



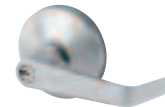
811K-DT 811K
811K-BE

Round Ball Knob
Escutcheon: 2 $\frac{5}{8}$ " x 9 $\frac{1}{2}$ "
Projection: 3 $\frac{3}{8}$ "
Brass, Bronze and
Stainless Steel

Key-In-Lever (814)



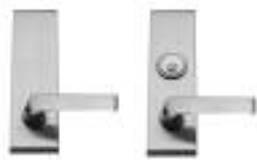
814KIL-IC



814KIL

812L

Dane



L/DT
L-BE

Projection: 2 $\frac{1}{16}$ "

Dane



Projection: 2 $\frac{1}{16}$ "

Sutro



Projection: 3 $\frac{1}{16}$ "

Quantum



Projection: 3 $\frac{1}{2}$ "

Avalon



Projection: 3 $\frac{1}{8}$ "

816L

Vandal Resistant



- Heavy duty, vandal resistant
- Trim operates device even in the "broken" position
- Breaks away in either direction (up or down), no internal shear
- Retrofits all existing Monarch lever or knob trims without additional door prep
- Works with all electric lock and unlock functions
- Works with rim and surface vertical devices

Lever: 4 $\frac{5}{8}$ " Escutcheon: 2 $\frac{5}{8}$ " x 9 $\frac{1}{2}$ " (Specify handing) Brass, Bronze and Stainless finishes.

- Dane, Quantum and Sutro lever trim return to within $\frac{1}{2}$ " of door.

Delta (for 18 concealed only)



719TL



719TLP



718TP



718DT



718C



718NL

All Delta pulls: 6 $\frac{1}{4}$ " C-C
Projection: 2"
719TP & 719DT: 13" overall length

TL: 7 $\frac{1}{4}$ " L x 1 $\frac{1}{4}$ " W x 1 $\frac{1}{2}$ " Projection
(Specify handing)
Brass, Bronze and Stainless Steel

For active trim when locking is not required specify (BE) blank escutcheon.



717DT



711K



712L Control

*Dane shown.

Escutcheon: 7 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "
Projection: 3 $\frac{3}{16}$ "
Knob: 2" round
Brass, Bronze, Stainless Steel
and Plated finishes

Lever: 4 $\frac{5}{8}$ "
Escutcheon: 7 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ "
Projection: 2 $\frac{1}{4}$ " - 3 $\frac{1}{4}$ "
*See L trim for lever styles
Brass, Bronze, Stainless Steel
and Plated finishes

TRIM CHART

Athena (815)				Vanguard (820)						
DEVICE	DT	NL	TP	DT	NL	TP	TP(BE)	TP2	TP(2 O.C.)	Blank(EO)
XX-R	815	815	815	820	820	820	820	820	820	820
XX-V	815	815	815	820	820	820	820	820	820	820
XX-M	815	815	815	820	820	820	820	820	820	820

Apollo (810)								Delta			811K		
DEVICE	DT	NL	TP	TP(BE)	TP2	TP(2 O.C.)	Blank(EO)	TL	K	K/DT	K(BE)	K2	K(2 O.C.)
XX-R	810	810	810	810	810	810	810	—	811	811	811	811	811
XX-V	810	810	810	810	810	810	810	719	811	811	811	811	811
XX-M	810	810	810	810	810	810	810	—	811	811	811	811	—

DEVICE	KIL*	KIL-BE**	KIL-NL*	KIL-IC
XX-XX	814	814	814	814

* Specify: KA, KD and RIM or VERTICAL. **Specify RIM or VERTICAL.

812 L

Sutro					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
XX-R	812	812	812	812	812
XX-V	812	812	812	812	812
XX-M	812	812	812	812	—

Dane					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
XX-R	812	812	812	812	812
XX-V	812	812	812	812	812
XX-M	812	812	812	812	—

Quantum					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
XX-R	812	812	812	812	812
XX-V	812	812	812	812	812
XX-M	812	812	812	812	—

Avalon					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
XX-R	812	812	812	812	812
XX-V	812	812	812	—	—
XX-M	812	812	812	812	—

816 L

Sutro					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
XX-R	816	816	816	816	816
XX-V	816	816	816	816	816
XX-M	816	816	816	816	—

Dane					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
XX-R	816	816	816	816	816
XX-V	816	816	816	816	816
XX-M	816	816	816	816	—

Quantum					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
XX-R	816	816	816	816	816
XX-V	816	816	816	816	816
XX-M	816	816	816	816	—

Avalon					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
XX-R	816	816	816	816	816
XX-V	816	816	816	—	—
XX-M	816	816	816	816	—

Delta

Dane				Avalon			Sutro			Quantum		
DEVICE	L	BE	DT	L	BE	DT	L	BE	DT	L	BE	DT
XX-C	712	712	712	712	712	712	712	712	712	712	712	712

DEVICE	TL	TLP	TP	TP-BE	DT	NL	DT	K	K-BE	K/DT	C
XX-C	719	719	718	718	718	718	717	711	711	711	718

Note: For night latch delta trim, add "NL" to trim number. All locking trim, except KIL, furnished less cylinder.
For active trim when locking is not required specify (BE) blank escutcheon.

TYPE AND FUNCTIONS

XX Series

These pages list all functions available for the XX Series devices. The XX-C devices use Delta trim only. See page 16.

Functions (ANSI)	Rim Device ANSI Type 1 (F)-XX-R	Vertical Rod Device ANSI Type 2 (F)-XX-V	Mortise Lock Device ANSI Type 3 (F)-XX-M	Concealed Vertical Rod Device ANSI Type 8 (F)-XX-C
BA or N (01) Exit only, no trim.	 XX-R-EO	 XX-V-EO	 XX-M-EO	 XX-C-EO
DT (02) Entrance by trim when actuating bar is locked down. Note: See original catalog.	 XX-R-EO	 XX-V-EO	 XX-M-EO	 XX-C-EO
NL (03) Entrance by trim when latchbolt is retracted by key. Key removable only when locked.	 XX-R-NL	Furnished Upon Request XX-V-EO	 XX-M-NL	Furnished Upon Request XX-C-EO
TP(05) Entrance by thumbpiece. Key locks or unlocks thumbpiece.	 XX-R-TP	 XX-V-TP	 XX-M-TP	 XX-C-TP
TP(NL) (06) Entrance by thumbpiece only when released by key. Key removable only when locked.	 XX-R-TP(NL)	 XX-V-TP(NL)	 XX-M-TP(NL)	 XX-C-TP(NL)
TP(2) (07) Entrance by thumbpiece. Inside key locks or unlocks thumbpiece. Outside key retracts latch.	 XX-R-TP2		 XX-M-TP2**	



Fire Exit Hardware
Security Monitor

Use "F" prefix for fire exit hardware.
Latch, device and authorized egress monitors.
(See Electrified Hardware catalog.)



Electric Function

Lock/unlock (See Electrified Hardware catalog.)
** Inside rim cylinder requires 2 1/4" long tailpiece

TYPE AND FUNCTIONS

XX Series

These pages list all functions available for the XX Series devices. The XX-C devices use Delta trim only. See page 16.

	Rim Device ANSI Type 1	Vertical Rod Device ANSI Type 2	Mortise Lock Device ANSI Type 3	Concealed Vertical Rod Device ANSI Type 8
Functions (ANSI)	(F)-XX-R	(F)-XX-V	(F)-XX-M	(F)-XX-C
L, K or KIL(08) Entrance by knob or lever. Key locks or unlocks knob.	 XX-R-L/K	 XX-V-L/K	 XX-M-L/K	 XX-C-L/K
L(NL) or K(NL) (09) Entrance by knob or lever only when released by key. Key removable only when locked.	 XX-R-L/K(NL)	 XX-V-L/K(NL)	 XX-M-L/K(NL)	 XX-C-L/K(NL)
L2 or K2 (10) Entrance by knob or lever. Inside key locks or unlocks knob. Outside key retracts latch.	 XX-R-L/K2		 XX-M-L/K2**	
TLP or TL (11) Entrance by control turnpiece. Key locks or unlocks control.		 XX-V-TL		 XX-C-TL or TLP
TLP(NL) or TP(NL) (12) Entrance by control turnpiece only when released by turning key. Key removable only when locked.		 XX-V-TL(NL)		 XX-C-TL or TLP (NL)
TP(2 O.C.) *Similar to 07. Entrance by thumbpiece. Lower cylinder locks or unlocks thumbpiece. Upper cylinder retracts latch.	 XX-R-P(2 O.C.)			
L(2 O.C.) or K(2 O.C.) *Similar to 10. Entrance by knob or lever. Lower cylinder locks or unlocks knob. Upper cylinder retracts latch.	 XX-R-L2/K(2 O.C.)			



**Fire Exit Hardware
Security Monitor**

Use "F" prefix for fire exit hardware.
Latch, device, and authorized egress monitors.
(See Electrified Hardware catalog.)



Electric Function

Lock/unlock. (See Electrified Hardware catalog.)
** Inside rim cylinder requires 2 3/4" long tailpiece



Ingersoll Rand's Security Technologies Sector is a leading global provider of products and services that make environments safe, secure and productive. The Sector's market-leading products include electronic and biometric access control systems; time and attendance and personnel scheduling systems; mechanical locks and portable security, door closers and exit devices, steel doors and frames, architectural hardware and technologies and services for global security markets.

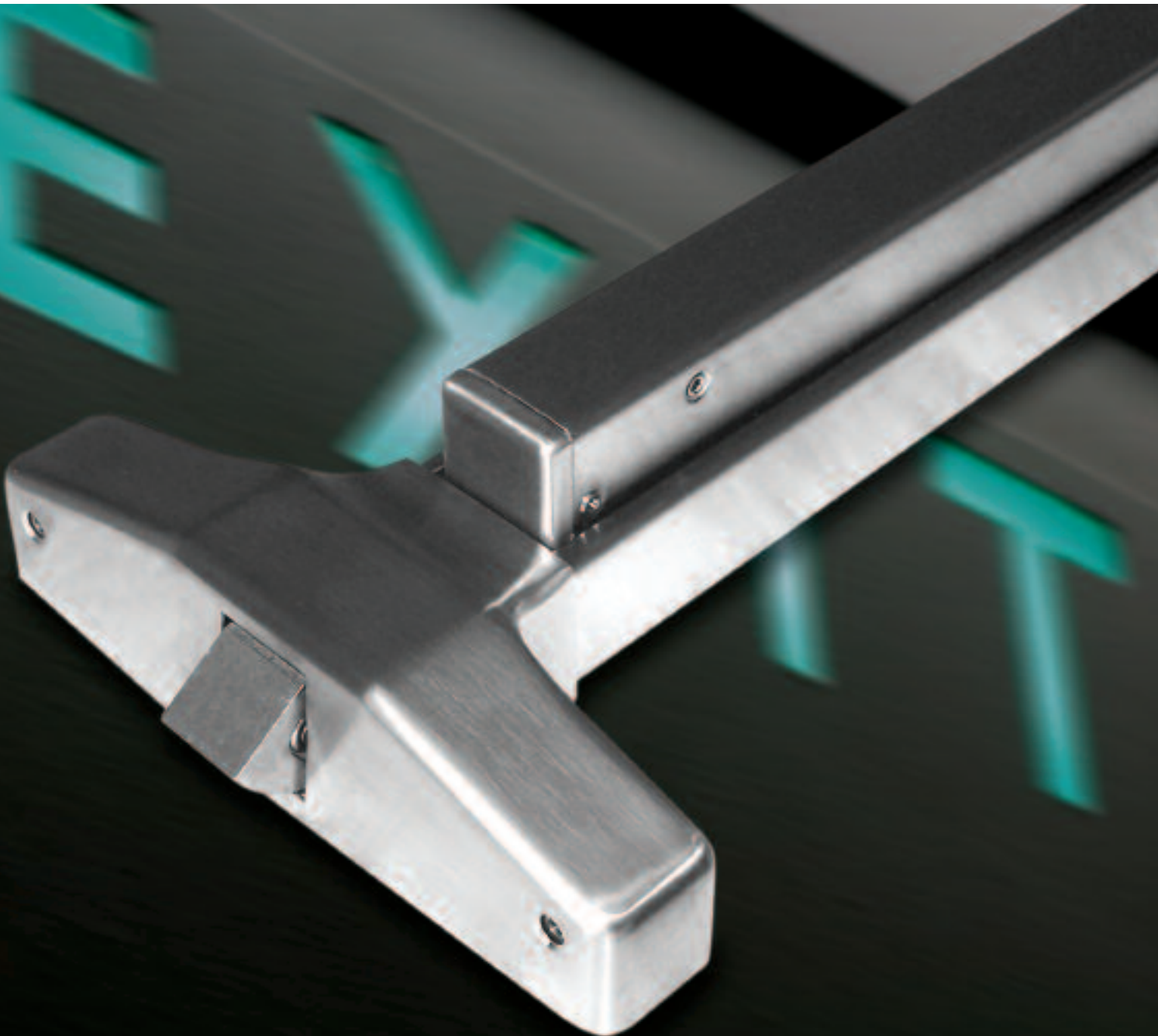
www.falcon.ingersollrand.com

FALCON

*Falcon
Monarch
Dor-O-Matic*

Monarch 17 Series

Touch Bar Exit Device



THE FALCON DIFFERENCE

S A F E T Y , S E C U R I T Y A N D U N C O M P R O M I S I N G V A L U E

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 door hardware 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 door hardware a powerful choice no matter what your project.



MONARCH 17 SERIES



Specifically designed for narrow stile doors, the 17 Series delivers trustworthy performance and a solid value. With an ANSI Grade 1 rating, available panic and electrified features, as well as a three-hour fire rating, the 17 Series is carefully crafted to meet the demands of a wide variety of applications. And since it's backed by one of the best names in the business you can be sure you're getting the utmost value and reliability.

FEATURES

Available electrified and panic functions

Hand-polished finish that stands up to constant use

Narrow stile design

Optional "B" label (1 1/2-hour) fire exit construction



ADDITIONAL INFORMATION

How to Order Sequence Example

Prefixes

CD	Cylinder Dogging
AE	Touchbar Request to Exit
DM	Latchbolt and Device Monitor Switch
KOR	Key Bypass Switch
LK	Locking Trim Monitor Switch
LM	Latchbolt Status Switch
SM	Solenoid Action Monitor Switch
ED	Electric Dogging
ELR	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

17	Touch Bar Device, Narrow Stile
----	--------------------------------

Device Type

R	Rim	C	Concealed Vertical rod
V	Surface Vertical Rod	C-WDC	Concealed Vertical rod Wood Door (20 or 90 Min)

Trim Function *(see Trim pages for all functions)*

EO	Exit Only	K	Knob
DT	Dummy Trim	L	Lever (Dane Standard)
NL	Night Latch	TL	Thumb Lever
C	Cylinder Trim Less Pull		
TP	Thumbpiece		

Latch Option

DL	Dead Locking
----	--------------

Finish

US3	US10	US26	US32
US4	US10B	US26D	US32D

Door Width

3'	Standard Default	2'	9" Touchbar
4'		2'5"	14" Touchbar
–	Specify Exact Door Width	3'6"	20" Touchbar

Handing

RHR	Right Hand Reverse
LHR	Left Hand Reverse

Less Bottom Rod

LBR	Less Bottom Rod
LBR-AFL	LRB w/Auxiliary Fire Latch

Other Device Options

EA	Exit Alarm	RBB	Round Bottom Bolt	SSTB	Stainless Steel Touch Bar
HWEA	Exit Alarm-Hard Wired	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	SCDC	Steel Channel Door Construction	–	Door Label (20 min, 45 min, 90 min 1-1/2 hr)
HMF	Hollow Metal Frame	–	Specify other Door or Frame	–	Stile Width
WD	Wood Door	–	Material information	–	Frame Stop Height
WDF	Wood Frame	–	Door Height	SGL	Single Door
ALD	Aluminum Door	–	Door Thickness	PR	Pair of Doors Swinging Same Direction
ALF	Aluminum Frame	–	Door Undercut		

ELR	F	17	V	L-DANE	US3	3'	LHR	LBR	SNB	WD
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DOOR APPLICATION

Label Doors

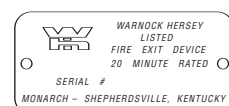
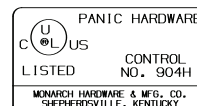
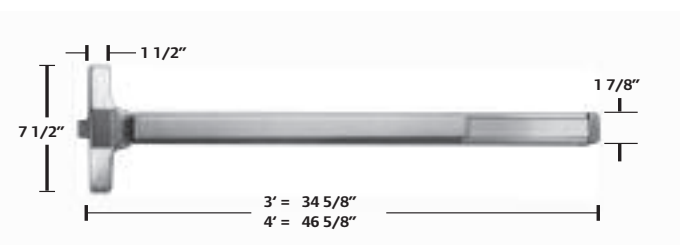
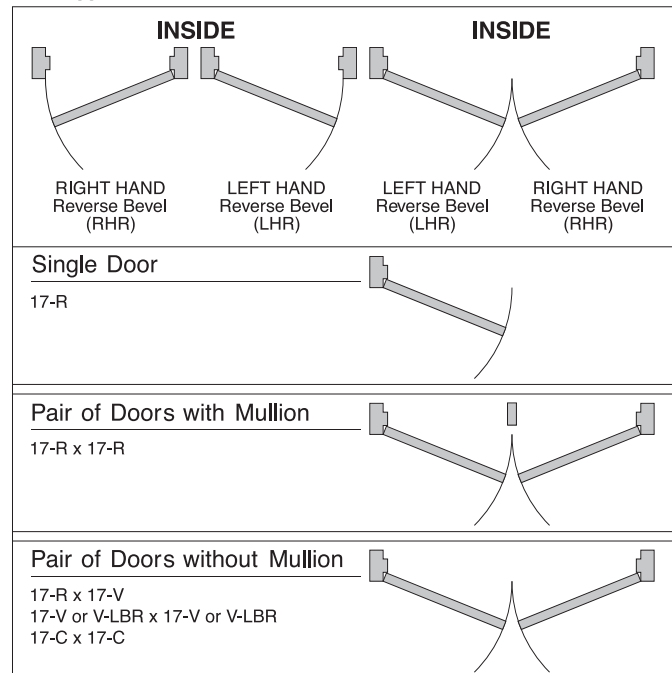
Monarch models F-17-R, F-17-C and F-17-V are labeled for use as  Fire Exit Hardware. UL and Warnock Hersey listed.

Door Thickness

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

DEVICE	Label	Door Opening	Application
Hollow Metal Door			
F-17-R	1 1/2 hr. "B"	4' x 8'	Single
F-17-V	3 hr. "A"	8' x 10'	Pair, double egress, same egress F-17-V x F-17-V
F-17-C	3 hr. "A"	8' x 10'	Pair, double, egress, same egress F-17-C x F-17-C
F-17-V-LBR	3 hr. "A"	8' x 8'	Pair, double, egress, same egress
F-17-C-LBR	3 hr. "A"	8' x 8'	Pair, double, egress, same egress
Wood Door			
F-17-C-WDC	45 min.	8' x 8'	Pair, wood comp., double egress steel channel door construction (SCDC)
F-17-C-WDC	1 1/2 hr. "B"	8' x 8'	Pair, wood comp., same egress steel channel door construction (SCDC)
F-17-C-WDC	20 min.	8' x 9'	Pair, wood comp., same egress Warnok Hersey (reinforcement plates)
F-17-C-WDC-LBR	20 min.	8' x 9'	Pair, wood, same egress, Warnok Hersey (reinforcement plates)
F-17-V-LBR	20 min.	8' x 8'	Wood comp., single, double egress, same egress
F-17-V	90 min.	8' x 8'	Pair, double egress, same egress, consult door manufacturer for approval

Door Application Chart



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

NON-HANDED RIM DEVICE 17-R SERIES

Panic Exit Hardware

The Monarch 17-R Series Rim Device is produced to meet the demanding requirements of higher traffic installations. This device is a single point, rim type latch with a modern pushbar design.

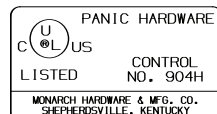


DEVICE	Length	Strike	Min. Stile	Door Opening Width
17-R-EO	3'	565 Flush	1 $\frac{3}{4}$ "	2'5 $\frac{1}{2}$ " to 3'0"
		565	2 $\frac{3}{4}$ "	2'6" to 3'0"
		F570/490	3 $\frac{1}{2}$ "	2'6 $\frac{1}{2}$ " to 3'0"
17-R-EO	4'	565 Flush	1 $\frac{3}{4}$ "	3'0" to 4'0"
		565	2 $\frac{3}{4}$ "	3'0" to 4'0"
		F570/490	3 $\frac{1}{2}$ "	3'1 $\frac{1}{2}$ " to 4'0"

Note: Cylinder dogging add 2 $\frac{1}{4}$ " to minimum door width.
Exit alarm and electric dogging add 4 $\frac{1}{2}$ " to minimum door width.

Specifications

Hand:	Non-Handed.
Functions:	17-R-EO (Exit Only) has all functions built in. Order trim with the device, or add it later. See Trim Selection Chart on pages 14 and 15.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630)
Strikes:	F570 adjustable strike standard. 565, F490 and 571/571A optional. 4396 used on 4423 mullion.
Latchbolt:	Stainless steel, $\frac{3}{4}$ " throw.
Deadlocking Latchbolt:	Optional. Specify "DL" prefix.
Dogging Feature:	$\frac{1}{2}$ 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 left.
Doors:	1 $\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than 1 $\frac{3}{4}$ ".
Projection:	2 $\frac{3}{8}$ " maximum, 1 $\frac{1}{8}$ " dogged.
Mounting Height:	40" from CL to finished floor.
Electric Function:	Can be interfaced with building security systems. Latch retraction, lock/unlock, security monitoring, electric dogging, exit indicator, latch retract indicator and exit alarm available (ELR and ED supplied fail secure.) Subject to code requirements, state and local. (See separate electrical brochure.)
Fasteners:	All mounting screws are concealed. Sheet metal screws standard. Machine screws available, specify AMS.
Sex Bolts:	1-#4122 ($\frac{1}{4}$ -20) SNB supplied standard. When device is used with hollow core wood, composite or light gauge Hollow Metal doors, specify 2-#2729 (10-24) SNB and 2-#4122 ($\frac{1}{4}$ -20). When through-bolted trim is used, 1-#4122 ($\frac{1}{4}$ -20) SNB supplied standard.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Center Case & Working Parts:	Wrought steel with heavy wrought and sintered metal parts.
Shim Kit:	For glass lite application, specify SK17-R- $\frac{1}{4}$.



NON-HANDED RIM DEVICE F-17-R SERIES

Fire Exit Hardware

The Monarch F-17-R Series Fire Rated Rim Device is produced with the demanding standards required for a quality fire rated device. The investment cast ductile iron chassis, stainless steel latchbolt and standard deadlocking features ensure years of reliable service in high traffic installations. The F-17-R device is a single point, rim type latch with a modern pushbar design.



DEVICE	Length	Strike	Min. Stile	Door Opening Width
F-17-R-EO	3"	F570/ F490	3½"	2'6½" TO 3'0"
F-17-R-EO	4"	F570/ F490	3½"	3'½" TO 4'0"

Note: Exit alarm and electric dogging add 4½" to minimum door width.

Specifications

Hand: Non-Handed.

UL: "B" label (1½ hr.); 4'0" x 8'0".

Functions: F-17-R-"EO" (Exit Only) has all functions built in. Order trim with the device, or add it later. See Trim Selection Chart on pages 14 and 15.

Finishes: US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).

Strikes: Stainless steel, F570 or F490.

Latchbolt: Stainless steel, ¾" throw.

Deadlocking Latchbolt: Standard.

Stock Sizes: See chart to left.

Doors: 1¾" thick, wood or metal. Specify thickness if other than 1¾". (SNB must be specified on wood or composite doors.)

Projection: 2¾" maximum.

Mounting Height: 40" from CL to finished floor.

Electric Function: Can be interfaced with building security systems. Latch retraction, lock/unlock, security monitoring, electric dogging, exit indicator, latch retract indicator and exit alarm available (ELR and ED supplied fail secure.) Subject to code requirements, state and local. (See separate electrical brochure.)

Fasteners: All mounting screws are concealed. Furnished with all machine screws.

Sex Bolts: 1-#4122 (¼-20) SNB standard. When used with wood, composite or non-reinforced Hollow Metal, sex bolts must be specified; 2-#2729 (10-24) SNB and 2-#4122 (¼-20) are required. If through-bolted trim is used, 1-#4122 (¼-20) SNB supplied standard.

ANSI: Certified ANSI A156.3-2001 Grade 1 standards.

Center Case & Working Parts: Investment-cast ferrous alloy with heavy wrought and sintered metal parts.

Shim Kit: For glass lite application, specify SK17-R-¼.



REVERSIBLE VERTICAL ROD DEVICE 17-V SERIES

Panic Exit Hardware

The Monarch 17-V Series Vertical Rod Device is produced to meet the demanding requirements of higher traffic installations. The 17-V is a surface applied (including strikes) vertical rod type with a modern pushbar design.

DEVICE	Length	Strike	Min. Stile	Door Opening Width
17-V-EO	3'	3788	1¾"	2'5¾" to 3'0"
		3788	3½"	2'6¾" to 3'0"
17-V-EO	4'	3788	1¾"	3'0" to 4'0"
		3788	3½"	3'¾" to 4'0"

Note: Cylinder dogging add 2¼" to minimum door width. Exit alarm and electric dogging add 4½" to minimum door width.



Specifications

Hand:	Field reversible.
Functions:	17-V-EO (Exit Only) has all functions built in. Order trim with the device, or add it later. See Trim Selection Chart on pages 14 and 15.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).
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, top latch ¾" throw. bottom bolt ½" throw.
Deadlocking Latchbolt:	Standard.
Latch Retention Hold:	Standard with top latch.
Dogging Feature:	½ turn hex dogging standard. No threaded part to wear out.
Cylinder Dogging:	Specify "CD" prefix. Uses 1½" long mortise cylinder with standard cam.
Stock Sizes:	See chart to left.
Doors:	1¾" thick, wood or metal. Specify if other than 1¾" thick.
Projection:	2¾" maximum, 1½" dogged.
Stile:	1¾" minimum when used in pairs.
Electric Function:	Can be interfaced with building security systems. Latch retraction, lock/unlock, security monitoring, electric dogging, exit indicator, latch retract indicator and exit alarm available (ELR and ED supplied fail secure). Subject to code requirements, state and local. (See separate electrical brochure.)
Fasteners:	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS.
Sex Bolts:	1-#4122 (¼-20) SNB, supplied standard. When device is used with hollow core, composite or light gauge Hollow Metal, specify 6-#2729 (10-24) SNB and 2-#4122 (¼-20). When used with through-bolted trim use 2729 SNB's only.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
17-V:	Latch Retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.
17-V-LBR:	Less bottom rod vertical device.
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 Kit:	For glass lite application, specify SK17-V-¼.

REVERSIBLE VERTICAL ROD DEVICE F-17-V SERIES

Fire Exit Hardware

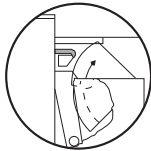
The Monarch F-17-V Series Fire Rated Vertical Rod Device is produced to meet demanding requirements of higher traffic installations. The F-17-V is a surface applied (including strikes) vertical rod type with a modern pushbar design with top latches deadlocking feature.

DEVICE	Length	Strike	Min. Stile	Door Opening Width
F-17-V-EO	3'	3788	1¾"	2'5¾" to 3'0"
		3788	3½"	2'6¾" to 3'0"
F-17-V-EO	4'	3788	1¾"	3'0" to 4'0"
		3788	3½"	3'¾" to 4'0"

Note: Exit alarm and electric dogging add 4½" to minimum door width.



3788
Strike



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



2130
Strike



Specifications

Hand: Field reversible.

UL: "A" label (3 hr.); 8'0" x 10'0" double egress.

Functions: F-17-V-EO (Exit Only) has all functions built in. Order trim with the device, or add it later. See Trim Selection Chart on pages 14 and 15.

Finishes: US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).

Strikes: 3788 top strikes are surface applied, 2130 bottom strike is mortised into floor.

Latchbolt: Stainless steel, top latch ¾" throw. bottom bolt ½" throw.

Latch Retention Hold: Standard with top latch.

Deadlocking Latchbolt: Standard.

Stock Sizes: See chart to left.

Doors: 1¾" thick, wood or metal. Specify if other than 1¾" thick.

Projection: 2¾" maximum.

Stile: 1¾" minimum when used in pairs. (Specify stile width.)

Electric Function: Can be interfaced with building security systems. Latch retraction, lock/unlock, security monitoring, electric dogging, exit indicator, latch retract indicator and exit alarm available (ELR and ED supplied fail secure). Subject to code requirements, state and local. (See separate electrical brochure.)

Fasteners: All mounting screws are concealed. All machine screws standard.

Sex Bolts: 1-#4122 (¼-20) SNB supplied standard. When device is used with wood, composite or non-reinforced Hollow Metal, specify 6-#2729 (10-24) SNB and 2-#4122 (¼-20). When used with through-bolted trim use 2729 SNB's only.

ANSI: Certified ANSI A156.3-2001 Grade 1 standards.

F-17-V: Latch Retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.

F-17-V-LBR: Less bottom rod vertical device. "A" label, 8'0" x 8'0" double egress. (20 min. fire rating on wood doors.)

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 Kit: For glass lite application, specify SK17-V-¼.

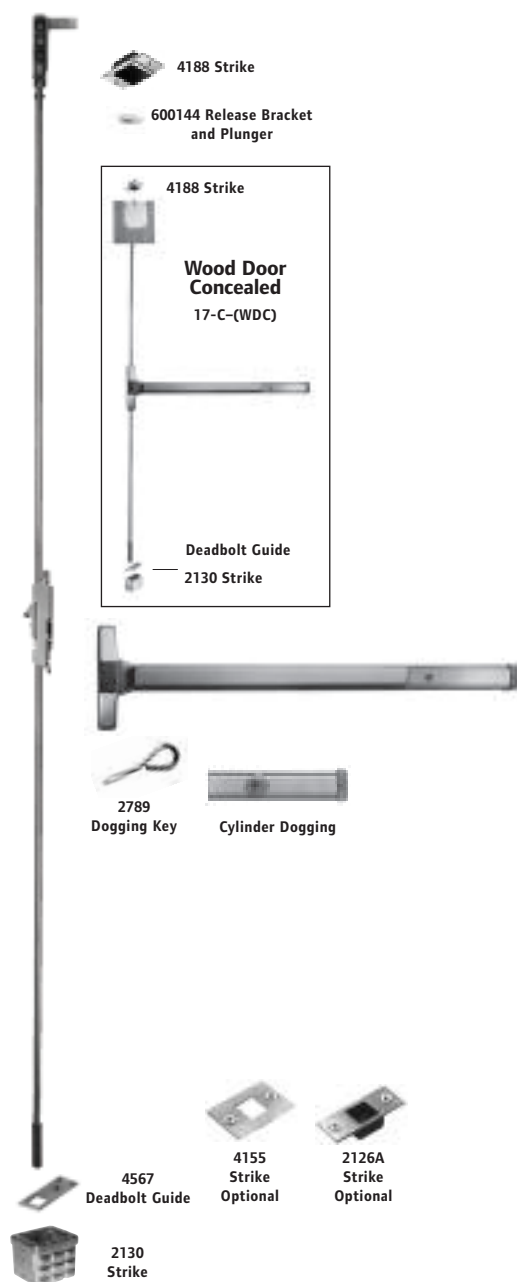
REVERSIBLE CONCEALED VERTICAL ROD DEVICE 17-C SERIES

Panic Exit Hardware

The Monarch 17-C Series Concealed Vertical Rod Device offers value and aesthetics with the security of two point latching. The 17-C device is a concealed vertical rod type with a modern pushbar design.

DEVICE	Length	Strike	Min. Stile	Door Opening Width
17-C-EO	3'	4188/2130	1¾"	2'5½" to 3'0"
		4188/2130	4½"	2'7½" to 3'0"
17-C-EO	4'	4188/2130	1¾"	3'0" to 4'0"
		4188/2130	3½"	3'1½" to 4'0"

Note: Cylinder dogging add 2¼" to minimum door width. Exit alarm and electric dogging add 4½" to minimum door width.



Specifications

Hand:	Handed, specify when ordering.
Functions:	See Trim Selection Chart on pages 14 and 15. Delta trim only.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).
Strikes:	4188 mortised top and 2130 flush strike bottom, optional bottom 2126A and 4155.
Latchbolt:	Top stainless steel ¾" throw. Bottom bolt ½" throw.
Deadlocking Latchbolt:	Standard.
Latch Retention Hold:	Standard in top latch.
Dogging Feature:	½ turn hex dogging standard. No threaded parts to wear out.
Cylinder Dogging:	Specify "CD" prefix. Uses 1½" long mortise cylinder dogging with standard cam.
Stock Sizes:	See chart to left.
Doors:	1¾" thick metal or wood. Specify if other than 1¾" thick.
Projection:	2¾" maximum, 1½" dogged.
Stile:	1¾" minimum when used in pairs. (6" minimum on wood doors.)
Electric Function:	Can be interfaced with building security systems. Latch retraction, security monitoring, electric dogging, exit indicator, latch retract indicator and exit alarm available (ELR and ED supplied fail secure). Subject to code requirements, state and local. (See separate electrical brochure).
Fasteners:	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS.
Sex Bolts:	1-#4122 (¼-20) SNB supplied standard. When light gauge Hollow Metal doors are used, specify 2-#4122 (¼-20) SNB. With through-bolted trim use 1-#4122 (¼-20) SNB supplied.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
WDC:	Reinforcement plates supplied standard.
17-C-LBR, 17-C-WDC-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 Kit:	For glass lite application, specify SK17-C-¼.



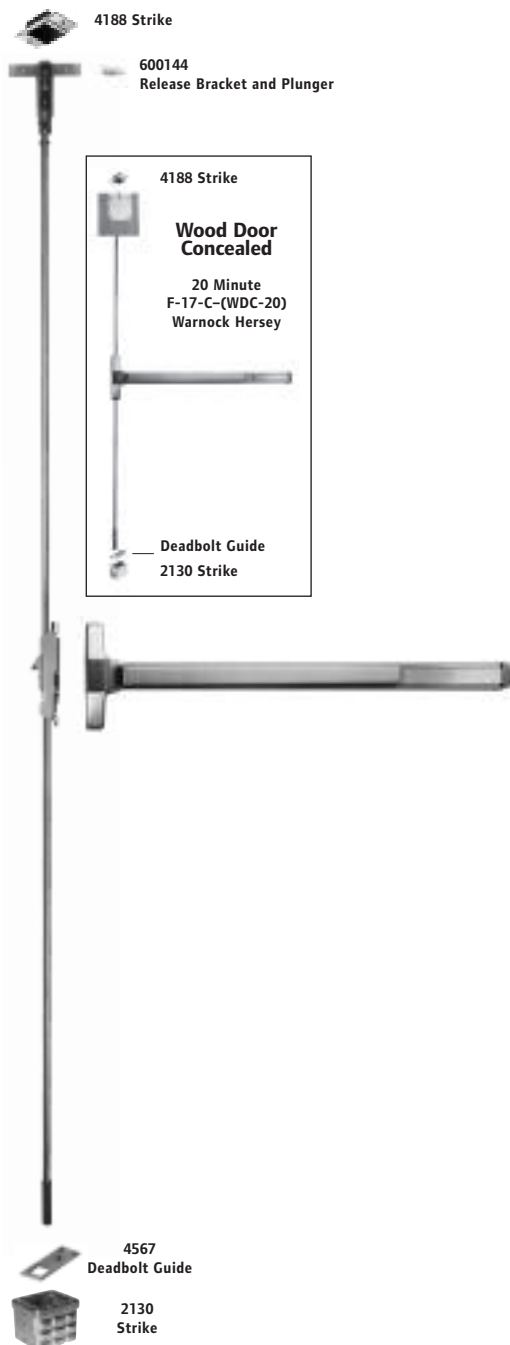
REVERSIBLE CONCEALED VERTICAL ROD DEVICE F-17-C SERIES

Fire Exit Hardware

The Monarch F-17-C Series Fire Rated Concealed Vertical Rod Device offers value and aesthetics with the security of two point latching. The F-17-C device is a concealed vertical rod type with a modern pushbar design.

DEVICE	Length	Strike	Min. Stile	Door Opening Width
F-17-C-E0	3'	4188/2130	4"	2'8" to 3'0"
F-17-C-E0	4'	4188/2130	4"	3'¼" to 4'0"

Note: Exit alarm and electric dogging add 4½" to minimum door width.



Specifications

Hand: Handed, specify when ordering.

UL: "A" label (3 hr.); 8'0" x 10'0". Fire rated wood concealed 4'0" x 8'0" single, 90 min.; 8'0" x 8'0" double egress, 45 min. Specify (WDC-90). 20 min. wood doors, 8'0" x 9'0" specify (WDC-20 Warnock Hersey Label).

Functions: See Trim Selection Chart on pages 14 and 15. Delta trim only.

Finishes: US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).

Strikes: 4188 mortised top, 2130 flush strike bottom.

Latchbolt: Top stainless steel, ¾" throw. Bottom bolt ½" throw.

Deadlocking Latchbolt: Standard.

Latch Retention Hold: Standard in top latch.

Stock Sizes: See chart to left.

Doors: 1¾" thick metal. Specify if other than 1¾" thick.

Projection: 2⅜" maximum.

Stile: 4" minimum when used in pairs. (6" minimum on wood doors.)

Electric Function: Can be interfaced with building security systems. Latch retraction, security monitoring, electric dogging, exit indicator, latch retract indicator and exit alarm available (ELR and ED supplied fail secure). Subject to code requirements, state and local. (See separate electrical brochure).

Fasteners: All mounting screws are concealed. All machine screws standard.

Sex Bolts: 1-#4122 (¼-20) SNB supplied standard. When non-reinforced Hollow Metal doors are used, specify 2-#4122 (¼-20) SNB. With through-bolted trim use 1-#4122 (¼-20) SNB supplied.

ANSI: Certified ANSI A156.3-2001 Grade 1 standards.

WDC-20: Reinforcement plates supplied standard for 20 min. doors only.

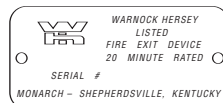
F-17-C-WDC-LBR: Less bottom rod vertical concealed device. Wood door 20 min., 4' x 9' and 8' x 9'. Top latch reinforcement plates.

F-17-C-LBR: Less bottom rod vertical device, "A" label, (3 hr.) 8'0" x 8'0", double egress.

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 Kit: For glass lite application, specify SK17-C-¼.





4023 Shown

Removable Mullion

- The 2923, 4023, KR4023 and 4423 steel mullions are for use with the 17-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.
- Monarch removable mullions are easily removed and reinstalled for full width access.
- Rim devices are used on both leaves, attaining a perfectly symmetrical opening.
- The mullion assembly consists of a mullion, top and bottom mounting brackets and a screw pack. Soffit adapters are available for use with either the 2923, 4423 or the 4023 mullion. Please see Price Book for ordering information.
- Strikes are not furnished with the mullion (except 4423). Please see page 13 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.
- 4423 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

- Cylinders for 17-R, 17-V and 17-C Series devices are mortise cylinders with standard thread (1 5/32" – 32) and 1 1/8" in length. The standard cams furnished with most manufacturers' mortise cylinders will operate Monarch exit devices (cams measure approximately 1" overall and 5/16" wide at tip).
Exception: 1) 17-C-C and 17-C-NL require 1" long cylinder by 1/8" blocking ring and required cam supplied by Monarch.
2) 17-R and 17-R-NL, 17-V-C and 17-V-NL require rim cylinder.
- Cylinder supplied only when specified.
- 1 1/8" long with standard cam and 'C' keyway only.
- Cylinders available keyed alike and keyed different.

Sex Bolts

Sex bolts are available in lengths (under the head) of 1 21/32". 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)



STRIKES AND ACCESSORIES

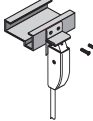
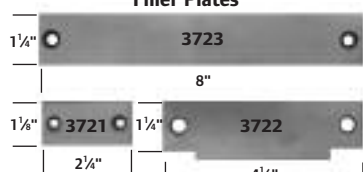
17 Series

Strikes

For (F) 17-R Rim Devices (center latching)

 565 Adjustable surface mounted for use with blade or applied stops.	 F570/F490 Adjustable strike.	 571/571A Used on inactive leaf for device on active leaf of pair of doors without removable mullion. 571 keeps 2 1/8" backset. 571A is trimmer and projects less into opening.	 579 Semi-surface strike which allows use of 17-R on narrower stile widths as low as 3 1/2". Also used for low projection.
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For (F) 17 Surface Vertical Rod and Concealed Vertical Rod Devices

 4215 Angle bracket for flush transom applications. Does not require elimination of latch retention feature.	 3788 Furnished top of (F)17-V.	 2126A (F)17-C and (F)17-V optional bottom strike.	 4188 Top strike for (F)17-C to be mounted into frame.
 4155 (F)17-C and (F)17-V optional bottom strike.	 2130 (F)17-V and (F)17-C standard bottom strike for grouting into concrete or masonry floors.	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	

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.

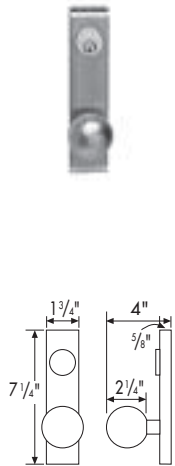
Concealed Vertical Extension Rods

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

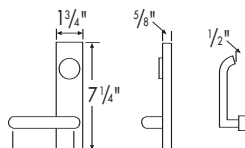
TRIM DESIGNS

Brass, Bronze, Aluminum, Stainless and/or Plated finishes.

K Control (711K)



L Control (712L)



Projection: 2 1/4", Avalon and Dane
2 3/8", Sutro
3", Quantum

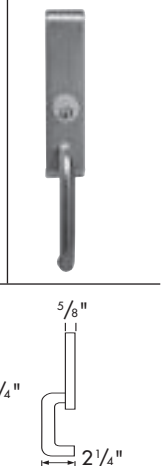
TP Control (710TP)



DT Control (710DT)



NL Control 710NL



Dane, Quantum and Sutro levers return to within 1/2" of door.

Brass, Bronze, Aluminum, Stainless and/or Plated finishes.

Delta

1 1/8" mortise cylinder



719TL 719TLP 718TP 718DT

1" cylinder



718C 718NL 717DT

Specify Handing
All Delta pulls: 6 1/4" C x C
All Delta pulls: 2" projection
TLP, P, TP & DT: 13" overall length
TL: 7 1/4" L x 1 1/4" W x 1 1/2" Projection

Athena



715DT

Grip overall: 9"
Width: 1 3/8"
Pull: 6 1/4" C x C
Projection: 2 1/4"

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

TRIM CHART

Athena	
DEVICE	DT
17-R	715
17-V	715

Control							
DEVICE	DT	NL	TP	TLP-BE	K	K-BE	K-DT
17-R	710	710	710	710	711	711	711
17-V	710	710	710	710	711	711	711
17-C	710	710	710	710	711	711	711

Avalon ¹				Dane ¹			Sutro ¹			Quantum ¹		
DEVICE	L	L-BE	L-DT	L	L-BE	L-DT	L	L-BE	L-DT	L	L-BE	L-DT
17-R	712	712	712	712	712	712	712	712	712	712	712	712
17-V	712	712	712	712	712	712	712	712	712	712	712	712
17-C	712	712	712	712	712	712	712	712	712	712	712	712

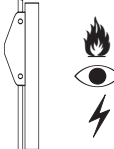
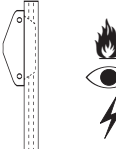
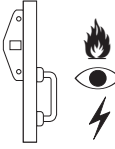
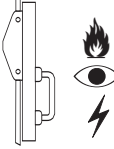
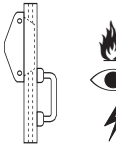
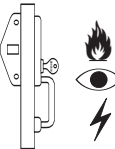
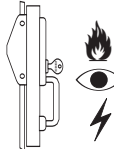
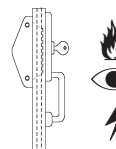
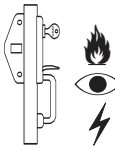
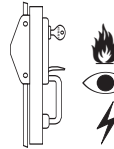
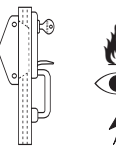
Delta											
DEVICE	DT	NL	C	TP	TP-BE	DT	TL	TLP	TL-NL	TLP-NL	TL-BE
17-R	717	718	718	718	718	718					
17-V	717	718	718	718	718	718	719		719		719
17-C	717	718	718	718	718	718	719	719	719	719	

¹ Specify hand.

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

TYPE AND FUNCTIONS

These pages list all functions available for the 17 Series devices.

	Rim Devices ANSI Type 4	Vertical Rod Devices ANSI Type 5	Concealed Vertical Rod Devices ANSI Type 6
Functions (ANSI)	(F)-17-R	(F)-17-V	(F)-17-C
EO (01) Exit only, no trim.	 17-R-E0	 17-V-E0	 17-C-E0
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.	 17-R-DT	 17-V-DT	 17-C-DT
NL (03) Entrance by trim when latchbolt is retracted by key. Key removable only when locked.	 17-R-NL	 17-V-NL	 17-C-P-NL
TP (05) Entrance by thumbpiece. Key locks or unlocks thumbpiece.	 17-R-TP	 17-V-TP	 17-C-TP



Fire Exit Hardware

Use "F" Prefix for fire exit hardware.



Security Monitor

Latch, device, solenoid, and authorized egress monitors. (See Electrified Hardware catalog.)



Electric Function

Lock/unlock and/or latch retraction and/or electric dogging. (See Electrified Hardware catalog.)

TYPE AND FUNCTIONS

These pages list all functions available for the 17 Series devices.

	Rim Devices ANSI Type 4	Vertical Rod Devices ANSI Type 5	Concealed Vertical Rod Devices ANSI Type 6
Functions (ANSI)	(F)-17-R	(F)-17-V	(F)-17-C
TP (NL) (06) Entrance by thumbpiece only when released by key. Key removable only when locked.	 17-R-TP (NL)	 17-V-TP (NL)	 17-C-TP (NL)
L or K (08) Entrance by knob or lever. Key locks or unlocks knob.	 17-R-L or K	 17-V-L or K	 17-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.	 17-R-L or K(NL)	 17-V-L or K(NL)	 17-C-L or K(NL)
TLP or TL (11) Entrance by control turnpiece. Key locks or unlocks control.		 17-V-TL	 17-C-TLP or TL
TLP (NL) or TL (NL) (12) Entrance by control turnpiece only when released by turning key. Key removable only when locked.		 17-V-TL(NL)	 17-C-TLP or TL(NL)



Fire Exit Hardware

Use "F" Prefix for fire exit hardware.



Security Monitor

Latch, device, solenoid, and authorized egress monitors. (See Electrified Hardware catalog.)



Electric Function

Lock/unlock and/or latch retraction and/or electric dogging. (See Electrified Hardware catalog.)

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Ingersoll Rand's Security Technologies Sector is a leading global provider of products and services that make environments safe, secure and productive. The Sector's market-leading products include electronic and biometric access control systems; time and attendance and personnel scheduling systems; mechanical locks and portable security, door closers and exit devices, steel doors and frames, architectural hardware and technologies and services for global security markets.

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FALCON

*Falcon
Monarch
Dor-O-Matic*

Monarch 18 Series

Touch Bar Exit Device



THE FALCON DIFFERENCE

S A F E T Y , S E C U R I T Y A N D U N C O M P R O M I S I N G V A L U E

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 door hardware 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 door hardware a powerful choice no matter what your project.



MONARCH 18 SERIES



When dependability is critical, the 18 Series exit device delivers with some of the toughest, most reliable performance in the business. With an ANSI Grade 1 rating, a choice of A or B label fire rating, and electrified and panic options, the 18 Series is ideal for high traffic environments like offices retail shops, restaurants and churches. A full complement of trim options ensures you get the style and security you need. And since it's backed by one of the best names in the business you can be sure you're getting the utmost value, reliability and durability.

FEATURES

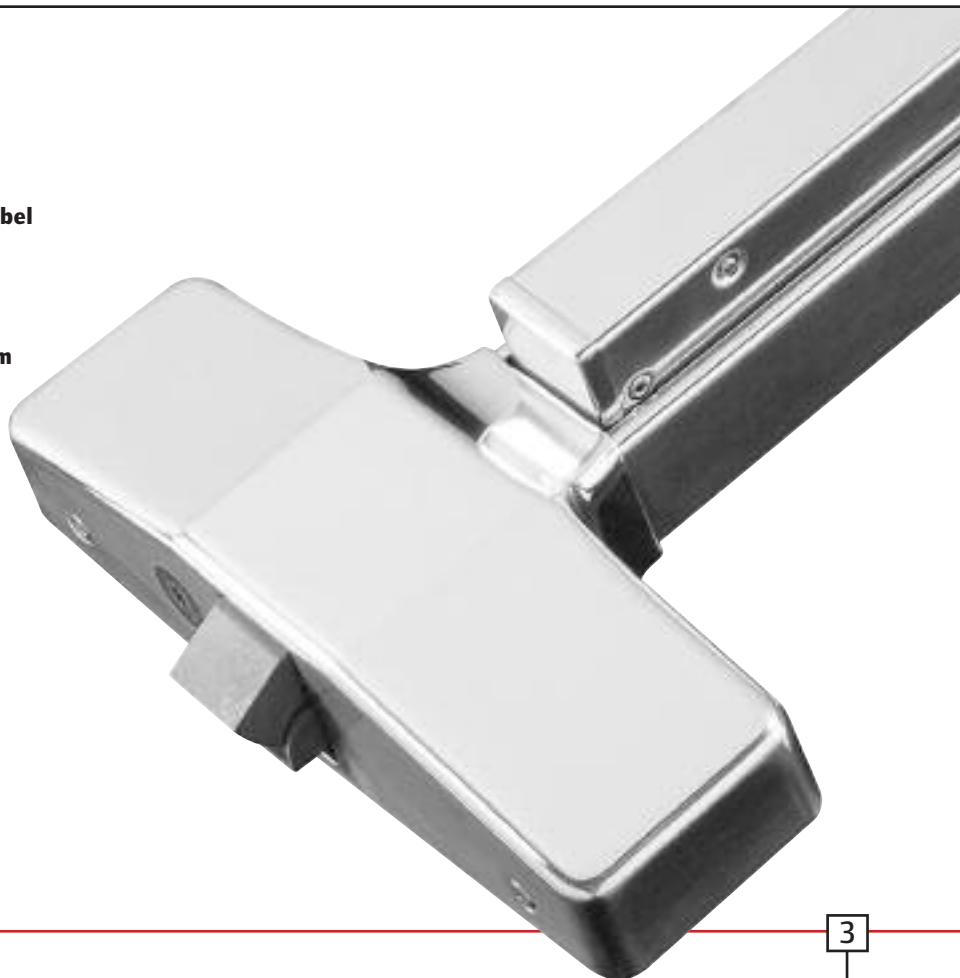
ANSI Grade 1 rating

Available in a full range of finishes

Available with "A" label (3-hour) and "B" label (1-1/2 hour) fire exit construction

Optional electrified and panic functions

Full complement of exit trims to choose from



ADDITIONAL INFORMATION

How to Order Sequence Example

ELR F 18 V L-DANE US3 3' LHR LBR SNB WD

Prefixes

CD	Cylinder Dogging
AE	Touchbar Request to Exit
DM	Latchbolt and Device Monitor Switch
KOR	Key Bypass Switch
LK	Locking Trim Monitor Switch
LM	Latchbolt Status Switch
SM	Solenoid Action Monitor Switch
ED	Electric Dogging
ELR	Electric Latch Retraction
FSA	Electric Lock or Unlock Trim-Fail Safe
FSE	Electric Lock or Unlock Trim-Fail Secure
DX	Delayed Egress

Rating

F	Fire Exit Hardware
Blank	Panic Exit Hardware

Device Series

18	Touch Bar Device, Wide Stile
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Device Type

R	Rim	C	Concealed Vertical rod
V	Surface Vertical Rod	C-WDC	Concealed Vertical rod
TPL	Three Point Latch		Wood Door (20 or 90 Min)

Trim Function (see Trim pages for all functions)

EO	Exit Only	K	Knob
DT	Dummy Trim	L	Lever (Dane Standard)
NL	Night Latch	TL	Thumb Lever
C	Cylinder Trim Less Pull	KIK	Key in Knob*
TP	Thumbpiece	KIL	Key in Lever*

Latch Option

DL	Dead Locking
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Finish

US3	US10	US26	US32
US4	US10B	US26D	US32D

Door Width

3'	Standard Default	2'	9" Touchbar
4'		2'5"	14" Touchbar
—	Specify Exact Door Width	3'6"	20" Touchbar

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

EA	Exit Alarm	RBB	Round Bottom Bolt	SSTB	Stainless Steel Touch Bar
HWEA	Hard Wired Exit Alarm	VRP	Black Pad on Touch Bar	TAC	Tactile Warning

Accessories

CYL	Cylinder	SNB	Sex Bolts
SK	Shim Kit	AMS	Machine Screws

Other Miscellaneous Door Information

HMD	Hollow Metal Door	SCDC	Steel Channel Door Construction	—	Door Label (20 min, 45 min, 90 min 1-1/2 hr)
HMF	Hollow Metal Frame	—	Specify other Door or Frame	—	Stile Width
WD	Wood Door	—	Material information	—	Frame Stop Height
WDF	Wood Frame	—	Door Height	SGL	Single Door
ALD	Aluminum Door	—	Door Thickness	PR	Pair of Doors Swinging Same Direction
ALF	Aluminum Frame	—	Door Undercut		

* Rim and surface vertical only

DOOR APPLICATION

Label Doors

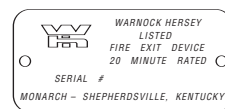
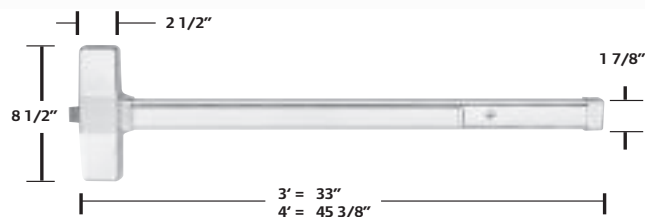
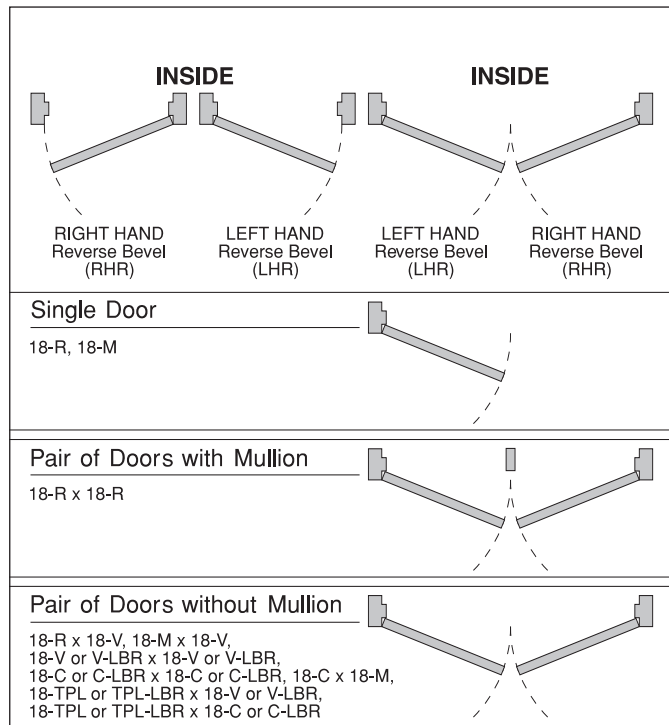
Monarch models F-18-R, F-18-M, F-18-C, F-18-V and F-18-TPL are labeled for use as  Fire Exit Hardware. UL and Warnock Hersey listed.

Door Thickness

All devices and components supplied for 1 $\frac{3}{4}$ " doors standard. Specify door thickness if other than 1 $\frac{3}{4}$ ".

DEVICE	Label	Door Opening	Application
Hollow Metal Door			
F-18-R	3 hr. "A"	4' x 8' 8' x 8'	Single, pair, same egress with F-4023 mullion
F-18-M	3 hr. "A"	4' x 10' 8' x 10'	Single, pair, same egress F-18-M/F-18-C or F-18-M/F-18-V
F-18-V	3 hr. "A"	8' x 10'	Double egress, same egress F-18-V/F-18-M
F-18-C	3 hr. "A"	8' x 10'	Double egress, same egress F-18-C/F-18-M
F-18-TPL	3 hr. "A"	4' x 10' 8' x 8'	F-18-M/F-18-V combination device
F-18-V-LBR	3 hr. "A"	8' x 8'	Double egress, same egress
F-18-C-LBR	3 hr. "A"	8' x 8'	Double egress, same egress
F-18-TPL-LBR	3 hr. "A"	4' x 10' 8' x 8'	Same egress
Wood Door			
F-18-C-WDC	$\frac{3}{4}$ hr.	8' x 8'	Wood comp., pair, double egress, 1 $\frac{1}{2}$ hr. rated door, PB P30 steel channel door construction (SCDC)
F-18-C-WDC	1 $\frac{1}{2}$ hr. "B"	8' x 8'	Wood comp., pair, same egress, steel channel door construction (SCDC)
F-18-C-WDC	20 min.	8' x 9'	Wood comp., pair, same egress, Warnock Hersey, (reinforcement plates)
F-18-C-WDC-LBR	20 min.	8' x 9'	Wood comp., pair, same egress, Warnock Hersey, (reinforcement plates)
F-18-V-LBR	20 min.	8' x 8'	Wood comp., pair, same egress, double egress
F-18-V	90 min.	8' x 8'	Pair of doors same/double egress, consult door manufacturer for approval

Door Application Chart



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

NON-HANDED RIM DEVICE 18-R SERIES

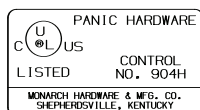
Panic Exit Hardware

The Monarch 18-R Series Rim Device is produced to meet the demanding requirements of higher traffic installations. This device is a single-point, rim type latch with a modern pushbar design.



DEVICE	Min. Length	Door Strike	Stile	Opening Width
18-R-EO	3'	565 Flush	3 1/4"	2'7" to 3'0"
		565	3 3/4"	2'7" to 3'0"
		F570/F490	4"	2'7" to 3'0"
		579	3 1/2"	2'7" to 3'0"
18-R-EO	4'	565 Flush	3 1/4"	3'0" to 4'0"
		565	3 3/4"	3'0" to 4'0"
		F570/F490	4"	3'0" to 4'0"
		579	3 1/2"	3'0" to 4'0"

*Note: Note: For cylinder dogging add 2 1/4" to minimum door size.
For exit alarm add 4 1/2" to minimum door size.
For electric dogging add 4 1/2" to minimum door size.
For delayed egress: 3'0" only: 3' 6" to 4'0", 3'0" to 3'6".
For smaller door openings 2'1" to 2'6" specify 3' x 14" TB (DX not available).
For smaller door openings 1'6" to 2'0" specify 3' x 9" TB (DX and ELR not available).*



Specifications

Hand:	Non-Handed.
Functions:	All functions built into "EO" (Exit Only) device. For K or L trim add 3755 K Hub. For KIL trim, add 650093 Retrofit Kit. See Trim Selection Chart on pages 16 and 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630). Special order for SP28, SP313.
Strikes:	F570 adjustable strike standard. 565, F490, 579 and 571/571A optional.
Latchbolt:	Stainless steel, 3/4" throw.
Deadlocking Latchbolt:	Optional. Specify "DL" prefix.
Dogging Feature:	1/2 turn hex dogging standard. No threaded parts to wear out.
Cylinder Dogging:	Specify "CD" prefix. Uses 1-1/8" long mortise cylinder with standard cam.
Stock Sizes:	See chart to left. Cut to size in the field.
Doors:	1-3/4" thick, wood or metal. Specify thickness if other than 1-3/4".
Projection:	2-3/8" maximum, 1-7/8" dogged.
Mounting Height:	40-1/4" from CL to finished floor.
Electric Function:	Can be interfaced with building security systems, latch retraction, lock/unlock, security monitoring, electric dogging, exit indicator, latch retract indicator, delayed egress and exit alarm available. (See separate electrical brochure).
Fasteners:	All mounting screws are concealed. Sheet metal screws standard. Machine screws available, specify AMS.
Sex Bolts:	1-#4122 (1/4-20) SNB supplied standard. When device is used with hollow core wood, composite or light gauge Hollow Metal doors, specify 4-#2729 (10-24) SNB. When through-bolted trim is used, 1-#4122 (1/4-20) SNB supplied standard.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Double Cylinder:	ANSI functions 07 & 10; specify TP2, K2 or L2.
Double Outside Cylinder:	ANSI functions 07 & 10 with both cylinders on outside. Specify: TP(2 O.C.), K(2 O.C.) or L(2 O.C.).
Chassis & Working Parts:	Center case is pressure die cast aluminum with heavy wrought, forged, investment cast and sintered metal parts. (DX chassis is investment cast stainless steel).
Shim Kit:	For glass lite applications; 1/4" thick, specify SK18-R-1/4.

NON-HANDED RIM DEVICE F-18-R SERIES

Fire Exit Hardware

The Monarch F-18-R Series Fire Rated Rim Device is produced with the demanding standards required for a quality fire-rated device. The investment-cast stainless steel chassis, stainless steel latchbolt and standard deadlocking features ensure years of reliable service. The F-18-R device is a single-point, rim type latch with a modern pushbar design.



DEVICE	Length	Strike	Min. Stile	Door Opening Width
F-18-R-EO	3'	F570/ F490	4"	2' 7" to 3' 0"
F-18-R-EO	4'	F570/ F490	4"	3' 0" to 4' 0"

Note: Note: For exit alarm add 4 1/2" to minimum door size.
For electric dogging add 4 1/2" to minimum door size.
For delayed egress: 3' 0" only; 3' 6" to 4' 0", 3' 0" to 3' 6".
For smaller door openings 2' 1" to 2' 6" specify 3' x 14" TB (DX not available).
For smaller door openings 1' 6" to 2' 0" specify 3' x 9" TB (DX and ELR not available).



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.
Functions:	All functions built into "EO" (Exit Only) device. For K or L trim add 3755 K Hub. For KIL trim, add 650093 Retrofit Kit. See Trim Selection Chart on pages 16 and 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630). Special order for SP28, SP313.
Strikes:	Stainless steel, F570 or F490.
Latchbolt:	Stainless steel, 3/4" throw.
Deadlocking Latchbolt:	Standard.
Stock Sizes:	See chart to left. Cut to size in the field.
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projection:	2 3/8" maximum.
Mounting Height:	40 1/4" from CL to finished floor.
Electric Function:	Can be interfaced with building security systems, latch retraction, lock/unlock, security monitoring, electric dogging, exit indicator, latch retract indicator, delayed egress and exit alarm available (ELR and ED furnished fail secure). Subject to code agreements, state and local. (See separate electrical brochure).
Fasteners:	All mounting screws are concealed. Furnished with all machine screws.
Sex Bolts:	1- #4122 (1/4-20) SNB supplied standard. When used with wood, composite or non-reinforced Hollow Metal, sex bolts must be specified. 6- #2729 (10-24) SNB are required. If through-bolted trim is used, 2- #2729 (10-24) SNB are required.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Double Cylinder:	ANSI functions 07 & 10; specify TP2, K2 or L2.
Double Outside Cylinder:	ANSI functions 07 & 10 with both cylinders on outside. Specify: TP(2 O.C.), K(2 O.C.) or L(2 O.C.).
Center Case & Working Parts:	Center Case is investment cast stainless steel with heavy wrought, forged, investment cast and sintered metal parts.
Shim Kit:	For glass lite applications; 3/4" thick, specify SK18-R-1/4.

REVERSIBLE VERTICAL ROD DEVICE 18-V SERIES

Panic Exit Hardware

The Monarch 18-V Series Vertical Rod Device is produced to meet the demanding requirements of higher traffic installations. The 18-V device is a surface-applied (including strikes) vertical rod type with a modern pushbar design with top latches and deadlocking feature.

DEVICE	Length	Strike	Min. Stile	Door Opening Width
18-V	3'	3788	3½"	2'7" to 3'0"
18-V	4'	3788	3½"	3'0" to 4'0"

Note: Exit alarm and electric dogging add 2¼" to minimum door width.
 Cylinder dogging add 2¼" to minimum door width.
 For smaller door openings 2'1" to 2'6" specify 3' x 14" TB.
 For smaller door openings 1'6" to 2'0" specify 3' x 9" TB.



Specifications

Hand:	Field reversible.
Functions:	18-V-E0 (Exit Only) has all functions built in. For K or L function add 4232 K Hub. For KIL function, add 650094 Retrofit Kit. See Trim Selection Chart on pages 16 and 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630), Special order for SP28, SP313
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 ¾" throw. Bottom bolt, ½" throw.
Deadlocking Latchbolt:	Standard.
Latch Retention Hold:	Standard with top latch.
Dogging Feature:	½ turn hex dogging standard. No threaded parts to wear out.
Cylinder Dogging:	Specify "CD" prefix. Uses 1¼" long mortise cylinder with standard cam.
Stock Sizes:	See chart.
Doors:	1¾" thick wood or metal. Specify if other than 1¾" thick.
Projection:	2½" maximum, 1¼" dogged.
Stile:	3½" minimum.
Electric Function:	Can be interfaced with building security systems. Latch retraction, lock/unlock, security monitoring, electric dogging, exit indicator, latch retract indicator and exit alarm available. (See separate electric brochure).
Fasteners:	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS.
Sex Bolts:	1- #4122 (1/4-20) SNB supplied standard. When device is used with hollow core, composite or light gauge Hollow Metal, specify 10- #2729 (10-24) SNB; 7- #2729 (10-24) SNB for LBR. When used with through-bolted trim deduct 4- #2729 SNB.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Double Cylinder:	ANSI functions 07 & 10; specify TP2, K2 or L2.
Double Outside Cylinder:	ANSI functions 07 & 10 with both cylinders on outside. Specify TP(2 O.C.), K(2 O.C.) or L(2 O.C.).
18-V:	Latch Retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.
Vertical Rods:	Furnished to length based on a 40¼" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
Three Point Latch:	18-TPL (combination mortise and surface vertical rod device) or 18-TPL-LBR.
18-V-LBR, 18-TPL-LBR:	Less bottom rod vertical device.
Shim Kit:	For glass lite applications; ¼" thick, specify SK18-V-¼.

REVERSIBLE VERTICAL ROD DEVICE F-18-V SERIES

Fire Exit Hardware

The Monarch F-18-V Series  Fire Rated Vertical Rod Device is produced to meet the demanding requirements of higher traffic installations. The F-18-V is a surface-applied (including strikes) vertical rod type with a modern pushbar design with top latches and deadlocking feature.

DEVICE	Length	Strike	Min. Stile	Door Opening Width
F-18-V	3'	3788	3½"	2'7" to 3'0"
F-18-V	4'	3788	3½"	3'0" to 4'0"

Note: Exit alarm and electric dogging add 4½" to minimum door width.
For smaller door openings 2'1" to 2'6" specify 3' x 14" TB.
For smaller door openings 1'6" to 2'0" specify 3' x 9" TB.



3788 Strike

Latch retention (LR) hold is in the top latch. Retainer is released when it engages the strike.



2130 Strike

Specifications

Hand:	Field reversible.
UL:	"A" label (3 hr.); 4'0" x 10'0" and 8'0" x 10'0" double egress.
Functions:	F-18-V-EO (Exit Only) has all functions built in. For K or L function add 4232 K Hub. For KIL function, add 650094 Retrofit Kit. See Trim Selection Chart on pages 16 and 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630), Special order for SP28, SP313.
Strikes:	3788 top strike is surface applied, 2130 bottom strike is mortised into floor.
Latchbolt:	Top stainless steel, ¾" throw. Bottom bolt, ½" throw.
Deadlocking Latchbolt:	Standard.
Latch Retention Hold:	Standard with top latch.
Stock Sizes:	See chart.
Doors:	1¾" thick, wood or metal. Specify thickness if other than 1¾".
Projection:	2¾" maximum.
Stile:	3½" minimum.
Electric Function:	Can be interfaced with building security systems. Latch retraction, lock/unlock, security monitoring, electric dogging, exit indicator, latch retract indicator and exit alarm available (ELR and ED furnished fail secure). Subject to code requirements, state and local. (See separate electrical brochure).
Fasteners:	All mounting screws are concealed. All machine screws (AMS) standard.
Sex Bolts:	1—#4122 (¼–20) SNB supplied standard. When device is used with wood, composite or non-reinforced Hollow Metal, specify 10—#2729 (10–24) SNB. When used with through-bolted trim deduct 4—#2729 SNB. 7—#2729 (10–24) SNB for LBR
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Double Cylinder:	ANSI functions 07 & 10; specify: T2, K2 or L2.
Double Outside Cylinder:	ANSI functions 07 & 10 with both cylinders on outside. Specify: TP(2 O.C.), K(2 O.C.) or L(2 O.C.).
F18-V:	Latch Retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.
F18-V-LBR:	Less bottom rod vertical device. "A" label, (3 hr.) 8'0" x 8'0" double egress. (20 min. fire rating on wood doors).
Vertical Rods:	Furnished to length based on a 40¼" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
Three Point Latch:	F-18-TPL (combination mortise and surface vertical rod device). F-18-TPL and 18-V-LBR with (3 hr.) "A" label.
Shim Kit:	For glass lite applications; ¼" thick, specify SK18-V-¼.

REVERSIBLE MORTISE DEVICE 18-M SERIES

Panic Exit Hardware

The Monarch 18-M Series mortise device offers great value, good looks and the security benefits of a mortise lock. This device is a single-point, mortise latch type featuring a modern pushbar design.



DEVICE	Length	Strike	Min. Stile	Door Opening Width
18-M	3'	1279/ F1280/ 1281	4½"	2'8" to 3'0"
18-M	4'	1279/ F1280/ 1281	4½"	3'1" to 4'0"

Note: For cylinder dogging add 2¼" to minimum door size.
 For exit alarm add 4½" to minimum door size.
 For electric dogging add 4½" to minimum door size.
 For delayed egress: 3'0" only, long 3'6" to 4'0", 4' by 3' touchbar: 3'0" to 3'6".
 For smaller door openings 2'1" to 2'6" specify 3' x 14" TB (DX not available).
 For smaller door openings 1'6" to 2'0" specify 3' x 9" TB (DX and ELR not available).



Specifications

Hand:	Easily reversible.
Functions:	Mortise lock determines function. When ordering device only, specify device with function less trim. See Trim Section Chart on page 16 and 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630), Special order for SP28, SP313.
Strikes:	1279 standard, F1280 and 1281 optional.
Latchbolt:	Stainless steel, ¾" throw.
Deadlocking Latchbolt:	Standard.
Dogging Feature:	½ turn hex dogging standard. No threaded parts to wear out.
Cylinder Dogging:	Specify "CD" prefix. Uses 1½" mortise cylinder with standard cam.
Mounting Height:	40¼" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990.
Electric Function:	Can be interfaced with building security systems. Latch retraction, lock/unlock, security monitoring, electric dogging, exit indicator, latch retract indicator, delayed egress and exit alarm available (ELR and ED furnished fail secure). Subject to code requirements, state and local. (See separate electrical brochure).
Stile:	4½" minimum.
Projection:	2¾" maximum, 1½" dogged.
Stock Sizes:	See chart.
Doors:	1¾" thick, wood or metal. Specify thickness if other than 1¾".
Fasteners:	All mounting screws are concealed. Sheet metal screws standard for device, mortise lock is machine screws. All machine screws available, specify AMS.
Sex Bolts:	1-#4122 (¼-20) SNB supplied standard. When device is used with hollow core wood, composite or light gauge Hollow Metal, specify 4-#2729 (10-24) SNB and 1-#4122 (¼-20) SNB. When through-bolted trim is used, 1-#4122 (¼-20) SNB supplied standard.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Double Cylinder:	ANSI functions 07 & 10; specify: TP2, K2 or L2.
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 separation ANSI A115.1 for 1¾" doors. Deadlocked when auxiliary bolt is depressed ⅜".
Three Point Latch:	18-TPL or 18-TPL-LBR (combination mortise and surface vertical rod device).
Shim Kit:	For glass lite applications; ¼" thick, specify SK18-RMC-¼

REVERSIBLE MORTISE DEVICE F-18-M SERIES

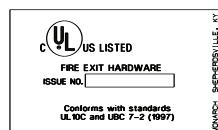
Fire Exit Hardware

The Monarch F-18-M Series  Fire Rated Mortise Device offers value, style and the security benefits of a mortise lock. This device is a single-point, mortise latch type featuring a modern pushbar design.



DEVICE	Length	Strike	Min. Stile	Door Opening Width
F-18-M	3'	1279/ F1280	4½"	2'8" to 3'0"
F-18-M	4'	1279/ F1280	4½"	3'1" to 4'0"

*Note: For exit alarm add 4 ½" to minimum door size.
For electric dogging add 4 ½" to minimum door size.
For delayed egress: 3'0" only, 4': 3'6" to 4'0", 4' by 3' touchbar: 3'0" to 3'6".
For smaller door openings 2'1" to 2'6" specify 3' x 14" TB (DX not available).
For smaller door openings 1'6" to 2'0" specify 3' x 9" TB (DX and ELR not available).*



Specifications

Hand:	Easily reversible.
UL:	"A" label (3 hr.); 4'0" x 8'0"; 8'0" x 10'0" (F-18-M x F-18-V or F-18-C). "B" label (1½ hr) with F1280 open back strike.
Functions:	Mortise lock determines function. When ordering device only, specify device with function less trim. See Trim Selection Chart on pages 16 and 17.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630), Special order for SP28, SP313.
Strikes:	1279 standard. F1280 optional, B label (1½ hr.).
Latchbolt:	Stainless steel, ¾" throw.
Deadlocking Latchbolt:	Standard.
Stock Sizes:	See chart.
Doors:	1¾" thick, wood or metal. Specify thickness if other than 1¾".
Projection:	2¾" maximum.
Stile:	4½" minimum.
Mounting Height:	40 ¼" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990.
Electric Function:	Can be interfaced with building security systems. Latch retraction, lock/unlock, security monitoring, electric dogging, exit indicator, latch retract indicator, delayed egress and exit alarm available (ELR and ED furnished fail secure). Subject to code requirements, state and local. (See separate electrical brochure).
Fasteners:	All mounting screws are concealed. All machine screws standard.
Sex Bolts:	1- #4122 (¼-20) SNB supplied standard. When device is used with wood, composite or non-reinforced Hollow Metal doors, specify 4- #2729 (10-24) SNB. When through-bolted trim is used, 1- #4122 (¼-20) SNB supplied standard.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Double Cylinder:	ANSI functions 07 & 10; specify: TP2, K2 or L2.
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 separation ANSI A115.1 for 1¾" doors. Deadlocked when auxiliary bolt is depressed ¾".
Three Point Latch:	F-18-TPL or F-18-TPL-LBR (combination mortise and surface vertical rod device).
Shim Kit:	For glass lite applications; ¼" thick, specify SK18-RMC-¼.

REVERSIBLE CONCEALED VERTICAL ROD DEVICE 18-C SERIES

Panic Exit Hardware

The Monarch 18-C Series Device offers great value, clean styling and the security benefits of two-point latching. The 18-C utilizes our patented center slide mechanism for easy rod adjustment in the field.

DEVICE	Length	Strike	Min. Stile	Door Opening Width
18-C	3'	4188/2130	3½"	2'7" to 3'0"
18-C	4'	4188/2130	3½"	3'0" to 4'0"

Note: For exit alarm add 4½" to minimum door size.

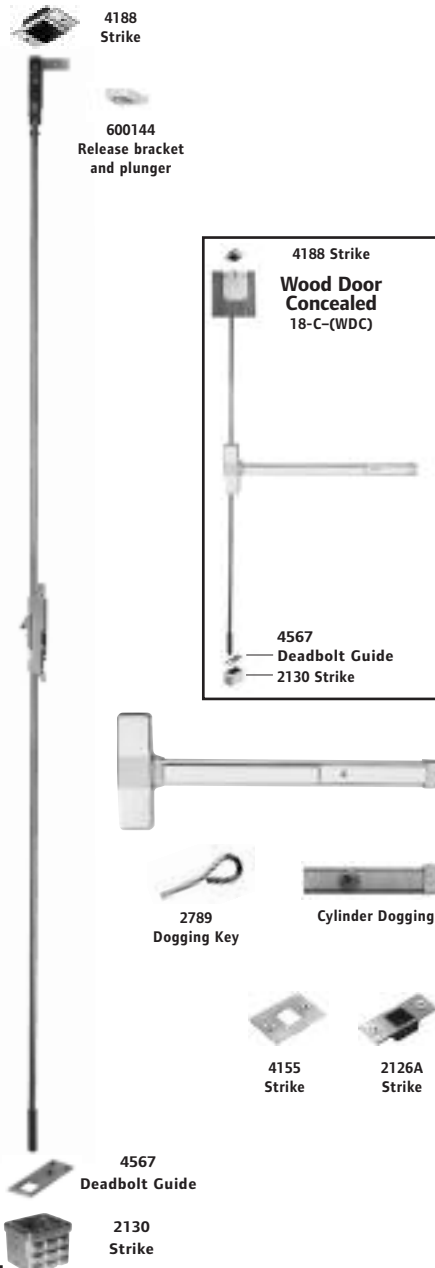
For electric dogging add 4½" to minimum door size.

Cylinder dogging add 2¼" to minimum door width.

For delayed egress: 3'0" only, 4': 3'6" to 4'0", 4' by 3' touchbar: 3'0" to 3'6".

For smaller door openings 2'1" to 2'6" specify 3' x 14" TB.

For smaller door openings 1'6" to 2'0" specify 3' x 9" TB.



Specifications

Hand:	Handed, specify when ordering.
Functions:	See Trim Selection Chart on pages 16 and 17. Delta trim only.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630), Special order for SP28, SP313.
Strikes:	4188 mortised top, 2130, 4155 and 2126A flush strike bottom standard.
Latchbolt:	Top stainless steel ¾" throw. Bottom bolt ½" throw.
Deadlocking Latchbolt:	Standard.
Latch Retention Hold:	Standard in top latch.
Dogging Feature:	½ turn hex dogging standard. No threaded parts to wear out.
Cylinder Dogging:	Specify "CD" prefix. Uses 1½" long mortise cylinder dogging with standard cam.
Stock Sizes:	See chart.
Doors:	1¾" thick metal or wood. Specify if other than 1¾" thick.
Projection:	2¾" maximum, 1½" dogged.
Stile:	3½" minimum. (6" minimum on wood doors).
Electric Function:	Can be interfaced with building security systems. Latch retraction, security monitoring, electric dogging, exit indicator, latch retract indicator, delayed egress and exit alarm available. (See separate electrical brochure).
Fasteners:	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS.
Sex Bolts:	1-#4122 (¼-20) SNB supplied standard. When light gauge Hollow Metal doors are used, specify 4-#2729 (10-24) SNB. With through-bolted trim use 1-#4122 (¼-20) SNB supplied.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
WDC:	Reinforcement plates supplied standard.
18-C-LBR, 18-C-WDC-LBR:	Less bottom rod concealed vertical device.
Vertical Rods:	Furnished to length based on 40¼" 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 Kit:	For glass lite applications; ¼" thick, specify SK18-C-¼.





F-4023 Shown

Removable Mullion

- The 2923, (F)4023 and KR(F)-4023 steel mullions are for use with the 18-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.
- Monarch 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. Please see Price Book for ordering information.
- The (F)4023 and KR(F)-4023 fire-rated mullion also includes 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 $\frac{1}{8}$ " mortise cylinder with standard A cam.

Mullion Features

- Mullion fittings – ductile iron.
- 4023 & (F)4023/KR 4023 and KR(F)-4023– 2" x 3" x height.
- 2923 mullion – 1 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " x height.
- Prime coat only.
- 7' or 8' door opening standard, other door opening as specified.

Cylinders

- Cylinders for KR4023/KRF4023 are 1 $\frac{1}{4}$ " mortise cylinders with standard.
- Cylinders for 18-R and 18-V Series devices with cylinder operation are rim cylinders with either horizontal or vertical tailpiece.
- Cylinders for 18-C, 18-M* and 18-TPL Series devices are 1- $\frac{1}{8}$ " mortise cylinders with standard thread. The standard cams furnished with most manufacturers' mortise cylinders will operate Monarch mortise locks as well as concealed Delta Trim TL Operators for 18-C devices. (Cams measure approximately 1" overall and $\frac{5}{16}$ " wide at tip.) Exceptions: Mortise TP(2)-K(2) rim cylinder inside mortise cylinder outside and concealed C and NL require cam supplied by factory. For specified trims and cylinders see listing in cylinder comparison catalog.
- Cylinder supplied only when specified.
- 1 $\frac{1}{8}$ " long with standard cam and "C" keyway only.
- On Delta C trim for vertical and concealed vertical C and NL functions 1" long cylinder by $\frac{1}{8}$ " blocking ring required with cam supplied by Monarch.
- Cylinders available keyed alike and keyed different.

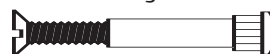
* 18-M Series devices using 811K or 812L trim require a 1 $\frac{1}{2}$ " cylinder

Sex Bolts

Sex bolts are available in lengths (under the head) of 1 $\frac{21}{32}$ ". Screws to fit are available in $\frac{3}{4}$ " and 2" lengths to cover a wide range of door thicknesses.

2729 (#10-24 Thread)

4122 (1/4"-20 Thread)



STRIKES AND ACCESSORIES

Strikes

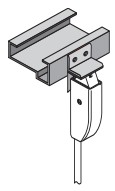
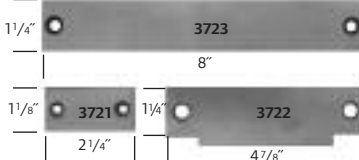
For (F) 18-R Rim Devices (center latching)

 565 Adjustable surface mounted for use with blade or applied stops.	 F570/F490 Adjustable strike.	 571/571A Used on inactive leaf for device on active leaf of pair of doors without removable mullion. 571 keeps 2⁷/₈" backset. 571A 2³/₈" backset is trimmer and projects less into opening.	 579 Semi-surface strike which allows use of 18-R on narrower stile widths as low as 3¹/₂". Also used for low projection.
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For All Mortise Lock Devices (F)18-M

 1279 To ASA dimensions. Closed strike used on single doors and on fire exit hardware doors with coordinator.	 F1280 Open back strike used on pairs of 1³/₄" doors without astragal or coordinator. To basic ASA dimensions and can be used on stock Hollow Metal doors. F1280 B label (1¹/₂ hr.) stainless steel strike available.	 1281 Open back strike for 1³/₄" doors. 8" x 1¹/₄" ears allow use in mortise lock cutout of stock Hollow Metal door.
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For (F)18 Surface Vertical Rod and Concealed Vertical Rod Devices

 4215 Angle bracket for flush transom applications. Does not require elimination of latch retention feature. Accepts 3788 strike for 18-V and 18-TPL devices.	 3788 Furnished top of (F)18-V and (F)18-TPL.	 2126A (F)18-V, (F)18-TPL and (F)18-C optional bottom strike.
		 4188 Top strike for (F)18-C.
 4155 4155 optional strike for use with (F)18-V, (F)18-C and (F)18-TPL latch.	 2130 (F)18-V, (F)18-C and (F)18-TPL standard bottom strike for grouting into concrete or masonry floors.	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

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.

TRIM DESIGNS

Vanguard (820)



820 TP 820 NL

Escutcheon: $2\frac{5}{8}$ " x 16"
Grip: $6\frac{1}{4}$ " C-C
Projection: $2\frac{1}{16}$ "
Brass, Bronze,
Stainless Steel
and Aluminum

Apollo (810)



810TP 810NL

Pull: $5\frac{1}{2}$ " OC
Escutcheon: $3\frac{3}{4}$ " x 15"
Projection: $2\frac{1}{4}$ "
Brass, Bronze,
Stainless Steel
and Aluminum

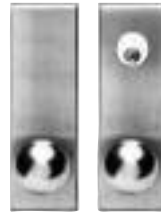
Athena (815)



815NL 815TP

Grip Overall: 9"
Width: $1\frac{1}{8}$ "
Pull: $6\frac{1}{4}$ " C-C
Projection: $2\frac{1}{4}$ "
Brass, Bronze, Plated
and Aluminum

811K



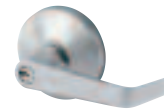
**811K-DT 811K
811K-BE**

Round Ball Knob
Escutcheon: $2\frac{5}{8}$ " x $9\frac{3}{4}$ "
Projection: $3\frac{3}{8}$ "
Brass, Bronze and
Stainless Steel

Key-In-Lever (814)



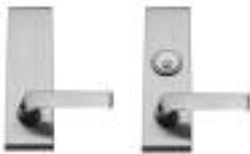
814KIL-IC



814KIL

812L

Dane



**L/DT
L-BE**

Projection: $2\frac{13}{16}$ "

Dane



Projection: $2\frac{13}{16}$ "

Sutro



Projection: $3\frac{13}{16}$ "

Quantum



Projection: $3\frac{1}{2}$ "

Avalon



Projection: $3\frac{1}{8}$ "

816L

Vandal Resistant



- Heavy duty, vandal resistant
- Trim operates device even in the "broken" position
- Breaks away in either direction (up or down), no internal shear
- Retrofits all existing Monarch lever or knob trims without additional door prep
- Works with all electric lock and unlock functions
- Works with rim and surface vertical devices

Lever: $4\frac{5}{8}$ " Escutcheon: $2\frac{5}{8}$ " x $9\frac{3}{4}$ " (Specify handing) Brass, Bronze and Stainless finishes.

- Dane, Quantum and Sutro lever trim return to within $\frac{1}{2}$ " of door.

Delta (for 18 concealed only)



719TL



719TLP



718TP



718DT



718C



718NL

All Delta pulls: $6\frac{1}{4}$ " C-C
Projection: 2"
718TP & 718DT: 13" overall length

TL: $7\frac{1}{4}$ " L x $1\frac{3}{4}$ " W x $1\frac{1}{2}$ " Projection
(Specify handing)
Brass, Bronze and Stainless Steel

For active trim when locking is not required specify (BE) blank escutcheon.



717DT



711K



712L Control

*Dane shown.

Escutcheon: $7\frac{1}{4}$ " x $1\frac{3}{4}$ "
Projection: $3\frac{3}{8}$ "
Knob: 2" round
Brass, Bronze, Stainless Steel
and Plated finishes

Lever: $4\frac{5}{8}$ "
Escutcheon: $7\frac{1}{4}$ " x $1\frac{3}{4}$ "
Projection: $2\frac{1}{4}$ " - $3\frac{1}{4}$ "
*See L trim for lever styles
Brass, Bronze, Stainless Steel
and Plated finishes

TRIM CHART

Athena (815)				Vanguard (820)						
DEVICE	DT	NL	TP	DT	NL	TP	TP(BE)	TP2	TP(2 O.C.)	Blank(EO)
18-R	815	815	815	820	820	820	820	820	820	820
18-V	815	815	815	820	820	820	820	820	820	820
18-M	815	815	815	820	820	820	820	820	820	820
18-TPL	815	—	815	820	—	—	—	—	—	—

Apollo (810)								Delta			811K		
DEVICE	DT	NL	TP	TP(BE)	TP2	TP(2 O.C.)	Blank(EO)	TL	K	K/DT	K(BE)	K2	K(2 O.C.)
18-R	810	810	810	810	810	810	810	—	811	811	811	811	811
18-V	810	810	810	810	810	810	810	719	811	811	811	811	811
18-M	810	810	810	810	810	810	810	—	811	811	811	811	—
18-TPL	810	—	—	—	—	—	—	—	811	811	811	—	—

DEVICE	KIL *	KIL-BE**	KIL-NL *	KIL-IC
18-R	814	814	814	814
18-V	814	814	814	814
18-M	—	—	—	—
18-TPL	—	—	—	—

* Specify: KA, KD and RIM or VERTICAL. **Specify RIM or VERTICAL.

812 L

Sutro					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
18-R	812	812	812	812	812
18-V	812	812	812	812	812
18-M	812	812	812	812	—
18-TPL	812	812	812	—	—

Dane					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
18-R	812	812	812	812	812
18-V	812	812	812	812	812
18-M	812	812	812	812	—
18-TPL	812	812	812	—	—

Quantum					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
18-R	812	812	812	812	812
18-V	812	812	812	812	812
18-M	812	812	812	812	—
18-TPL	812	812	812	—	—

Avalon					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
18-R	812	812	812	812	812
18-V	812	812	812	—	—
18-M	812	812	812	812	—

816 L

Sutro					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
18-R	816	816	816	816	816
18-V	816	816	816	816	816
18-M	816	816	816	816	—
18-TPL	816	816	816	—	—

Dane					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
18-R	816	816	816	816	816
18-V	816	816	816	816	816
18-M	816	816	816	816	—
18-TPL	816	816	816	—	—

Quantum					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
18-R	816	816	816	816	816
18-V	816	816	816	816	816
18-M	816	816	816	816	—
18-TPL	816	816	816	—	—

Avalon					
DEVICE	L	L/DT	L(BE)	L2	L(2 O.C.)
18-R	816	816	816	816	816
18-V	816	816	816	—	—
18-M	816	816	816	816	—

Delta

Dane				Avalon			Sutro			Quantum		
DEVICE	L	BE	DT	L	BE	DT	L	BE	DT	L	BE	DT
18-C	712	712	712	712	712	712	712	712	712	712	712	712

DEVICE	TL	TLP	TP	TP-BE	DT	NL	DT	K	K-BE	K/DT	C
18-C	719	719	718	718	718	718	717	711	711	711	718

For active trim when locking is not required specify (BE) Blank escutcheon. Note: For night latch delta trim, add "NL" to trim number. All locking trim except KIL, furnished less cylinder.

TYPE AND FUNCTIONS

18 Series

These pages list all functions available for the 18 Series devices. The 18-C devices use Delta trim only. See trim page 17.

	Rim Device ANSI Type 1	Vertical Rod Device ANSI Type 2	Mortise Lock Device ANSI Type 3	Concealed Vertical Rod Device ANSI Type 8	Three Point Latch Vertical and Mortise ANSI Type 11
Functions (ANSI)	(F)-18-R	(F)-18-V	(F)-18-M	(F)-18-C	(F)-18-TPL
EO (01) Exit only, no trim.	 18-R-E0	 18-V-E0	 18-M-E0	 18-C-E0	 18-TPL-E0
DT or TDT (02) Entrance by trim when actuating bar is locked down. Note: See original catalog.	 18-R-DT	 18-V-DT	 18-M-DT	 18-C-DT	 18-TPL-DT
NL (03) Entrance by trim when latchbolt is retracted by key. Key removable only when locked.	 18-R-NL	Furnished Upon Request 18-V-NL	 18-M-NL	Furnished Upon Request 18-C-NL	
TP (05) Entrance by thumbpiece. Key locks or unlocks thumbpiece.	 18-R-TP	 18-V-TP	 18-M-TP	 18-C-TP	
TP (NL) (06) Entrance by thumbpiece only when released by key. Key removable only when locked.	 18-R-TP(NL)	 18-V-TP(NL)	 18-M-TP(NL)	 18-C-TP(NL)	
TP(2) (07) Entrance by thumbpiece. Inside key locks or unlocks thumbpiece. Outside key retracts latch.	 18-R-TP2	Furnished Upon Request 18-V-TP2	 18-M-TP2**	 18-C-TP2	

** Inside rim cylinder requires 2 1/4" long tailpiece.



**Fire Exit Hardware
Security Monitor**

Use "F" Prefix for fire exit hardware.
Latch, device, solenoid, and authorized egress moni-
tors. (See Electrified Hardware catalog.)



Electric Function



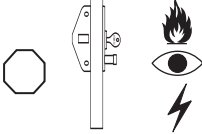
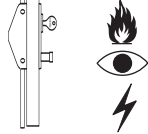
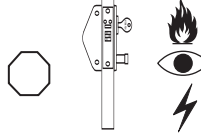
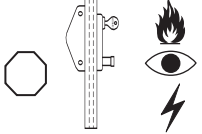
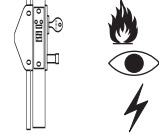
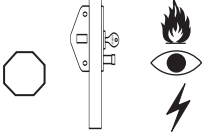
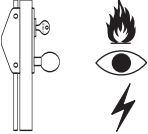
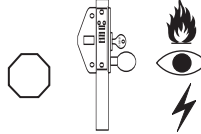
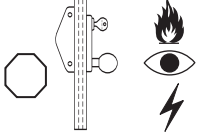
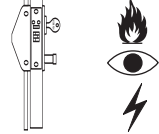
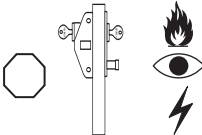
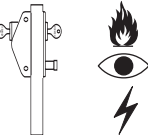
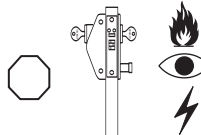
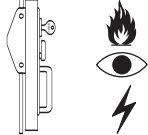
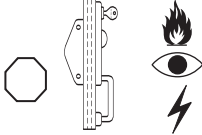
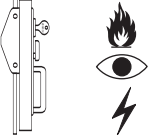
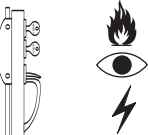
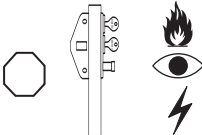
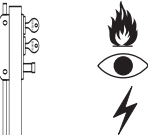
Delayed Egress

Lock/unlock and/or latch retraction and/or electric
dogging. (See Electrified Hardware catalog.)
Use prefix "DX" or 18 rim, mortise or concealed verti-
cal rod.

TYPE AND FUNCTIONS

18 Series

These pages list all functions available for the 18 Series devices. The 18-C devices use Delta trim only. See trim page 17.

	Rim Device ANSI Type 1	Vertical Rod Device ANSI Type 2	Mortise Lock Device ANSI Type 3	Concealed Vertical Rod Device ANSI Type 8	Three Point Latch Vertical and Mortise ANSI Type 11
Functions (ANSI)	(F)-18-R	(F)-18-V	(F)-18-M	(F)-18-C	(F)-18-TPL
L, K or KIL (08) Entrance by knob or lever. Key locks or unlocks knob.	 18-R-L/K	 18-V-L/K	 18-M-L/K	 18-C-L/K	 18-TPL-L/K
L(NL) or K(NL) or KIL(NL) (09) Entrance by knob or lever only when released by key. Key removable only when locked.	 18-R-L/K(NL)	 18-V-L/K(NL)	 18-M-L/K(NL)	 18-C-L/K(NL)	 18-TPL-L/K(NL)
L2 or K2 (10) Entrance by knob or lever. Inside key locks or unlocks knob. Outside key retracts latch.	 18-R-L2/K2	 18-V-L2**	 18-M-L2/K2**		
TLP or TL(11) Entrance by control turnpiece. Key locks or unlocks control.		 18-V-TL		 18-C-TL or TLP	
TLP(NL) or TL(NL) (12) Entrance by control turnpiece only when released by turning key. Key removable only when locked.		 18-V-TL(NL)		 18-C-TL or TLP(NL)	
TP(2 O.C.) *Similar to 07. Entrance by thumbpiece. Lower cylinder locks or unlocks thumbpiece. Upper cylinder retracts latch.	 18-R-TP(2 O.C.)	 18-V-TP(2 O.C.)			
L(2 O.C.) or K(2 O.C.) *Similar to 10. Entrance by knob or lever. Lower cylinder locks or unlocks knob. Upper cylinder retracts latch.	 18-R-L(2 O.C.)/K(2 O.C.)	 18-V-L(2 O.C.)			

** Inside rim cylinder requires 2 1/4" long tailpiece.



**Fire Exit Hardware
Security Monitor**

Use "F" Prefix for fire exit hardware.
Latch, device, solenoid, and authorized egress
monitors. (See Electrified Hardware catalog.)



Electric Function



Delayed Egress

Lock/unlock and/or latch retraction and/or electric
dogging. (See Electrified Hardware catalog.)
Use prefix "DX" or 18 rim, mortise or concealed
vertical rod.



Ingersoll Rand's Security Technologies Sector is a leading global provider of products and services that make environments safe, secure and productive. The Sector's market-leading products include electronic and biometric access control systems; time and attendance and personnel scheduling systems; mechanical locks and portable security, door closers and exit devices, steel doors and frames, architectural hardware and technologies and services for global security markets.

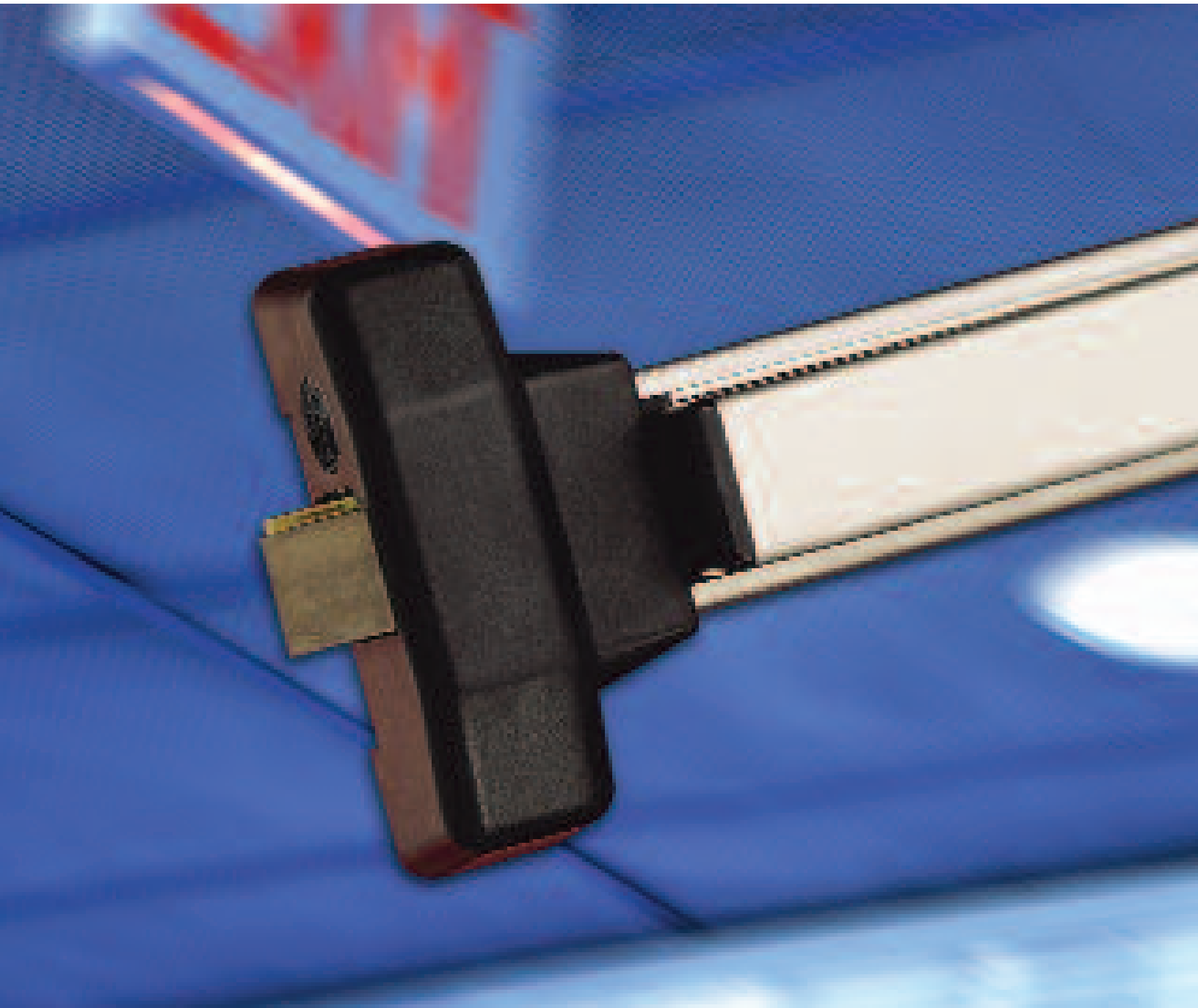
www.falcon.ingersollrand.com

FALCON

*Falcon
Monarch
Dor-O-Matic*

Monarch 19 Series

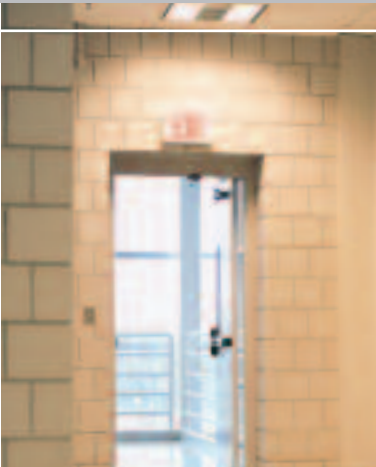
Touch Bar Exit Device



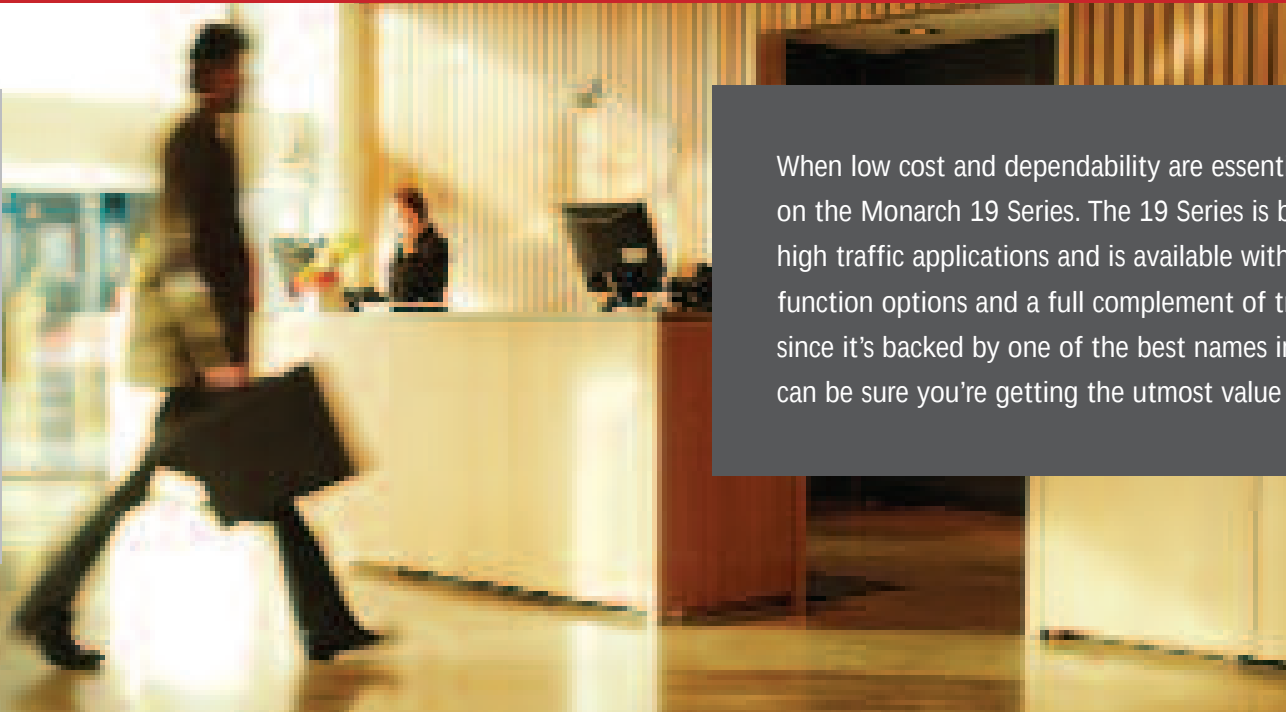
THE FALCON DIFFERENCE

S A F E T Y , S E C U R I T Y A N D U N C O M P R O M I S I N G V A L U E

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 door hardware 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 door hardware a powerful choice no matter what your project.



MONARCH 19 SERIES



When low cost and dependability are essential, you can count on the Monarch 19 Series. The 19 Series is built to stand up in high traffic applications and is available with a wide variety of function options and a full complement of trim devices. And since it's backed by one of the best names in the business you can be sure you're getting the utmost value and reliability.

FEATURES



ANSI Grade 1 rating

Optional "B" label (1-1/2-hour) fire exit construction

Available with a full complement of trims

ADDITIONAL INFORMATION

How to Order Sequence Example

				F	19	V	L-DANE	US32D	3'	LHR	LBR	SNB	WD
Prefixes													
CD	Cylinder Dogging												
AE	Touchbar Request to Exit												
DM	Latchbolt and Device Monitor Switch												
KOR	Key Bypass Switch												
LK	Locking Trim Monitor Switch												
LM	Latchbolt Status Switch												
ED	Electric Dogging												
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		K	Knob									
DT	Dummy Trim		L	Lever (Dane Standard)									
NL	Night Latch		TL	Thumb Lever									
C	Cylinder Trim Less Pull		KIK	Key in Knob									
TP	Thumbpiece		KIK	Key in Lever									
Finish													
US32D	SP28	SP313											
Door Width													
3'	Standard Default		2'	9" Touchbar									
4'			2'5"	14" Touchbar									
—	Specify Exact Door Width		3'6"	20" Touchbar									
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													
EA	Exit Alarm		RBB	Round Bottom Bolt		SSTB	Stainless Steel Touch Bar						
HWEA	Hard Wired Exit Alarm		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		SCDC	Steel Channel Door Construction		—	Door Label (20 min, 45 min, 90 min 1-1/2 hr)						
HMF	Hollow Metal Frame		—	Specify other Door or Frame		—	Stile Width						
WD	Wood Door		—	Material information		—	Frame Stop Height						
WDF	Wood Frame		—	Door Height		SGL	Single Door						
ALD	Aluminum Door		—	Door Thickness		PR	Pair of Doors Swinging Same Direction						
ALF	Aluminum Frame		—	Door Undercut									

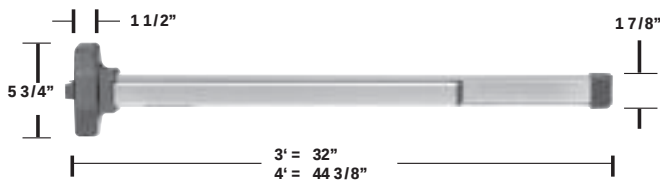
DOOR APPLICATION

Door Thickness

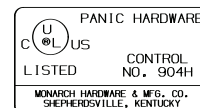
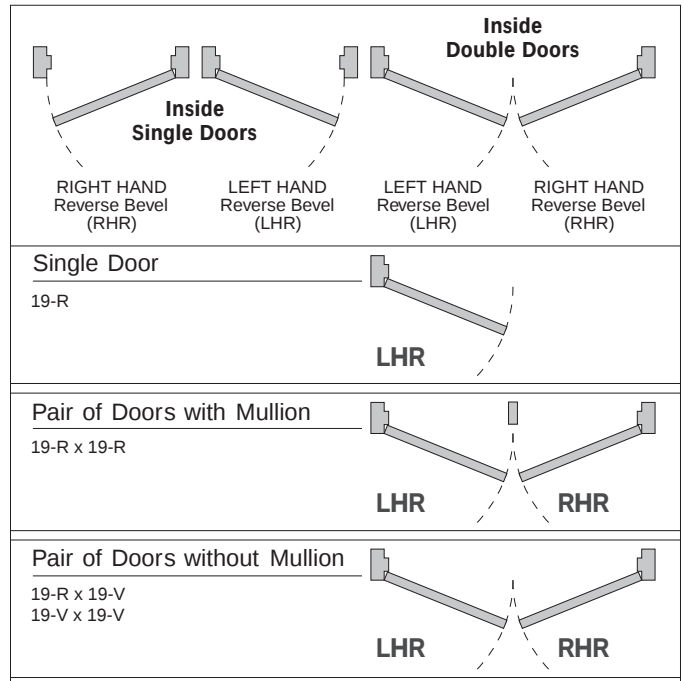
All devices and components supplied for 1 3/4" doors standard. Specify door thickness if other than 1 3/4".

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

Device Dimensions:



Door Application Chart

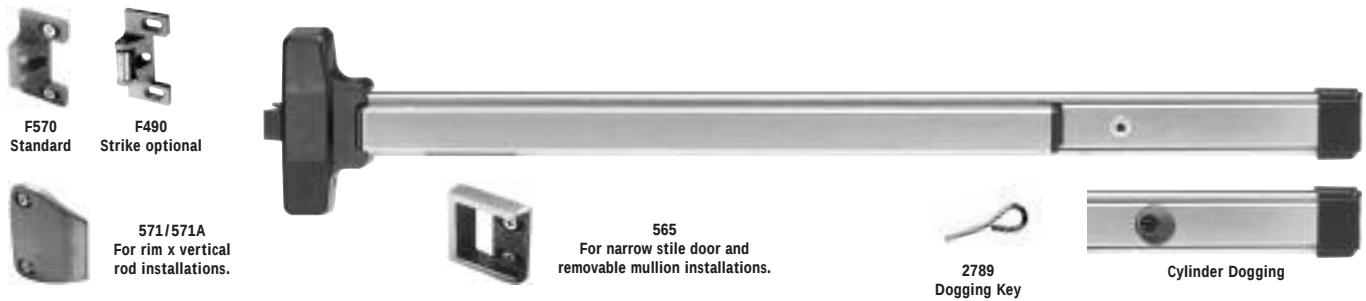


Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

NON-HANDED RIM DEVICE 19-R SERIES

Panic Exit Hardware

The Monarch 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 1¾" 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-TP	1 or 4	05
19-R-TP-NL	1 or 4	06
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

Note: For blank escutcheon specify BE.



Specifications

Hand:	Non-Handed.
Functions:	All functions built into "EO" device. All 19 Series trim works with rim or vertical devices. See Trim Selection Chart on pages 12 and 13.
Finishes:	Powder-coated aluminum-SP28; powder-coated duranodic-SP313; stainless steel US-32D.
Strikes:	F570 standard. 565, 571/571A, F490 optional.
Latchbolt:	Stainless steel, ¾" throw.
Deadlocking Latchbolt:	Standard.
Dogging Feature:	½ turn hex dogging standard. No threaded parts to wear out.
Cylinder Dogging:	Specify "CD" prefix. Use 1⅝" long mortise cylinder with standard "A" cam.
Stock Sizes:	3'0" and 4'0". (See chart on page 15.)
Doors:	1¾" thick, wood or metal. Specify thickness if other than 1¾".
Narrow Stile Doors:	Specify 565 strike. (See chart on page 15.)
Projection:	2½" maximum; 1⅞" dogged.
Electric Function:	Can be interfaced with building security system. Security monitoring, electric dogging, exit indicator, and exit alarm available. (See separate electrical brochure.)
Fasteners:	All mounting screws are concealed. Furnished with sheet metal screws. Machine screws available, specify AMS.
Sex Bolts:	3-#4122 (¼-20) SNB standard.
ANSI:	Certified ANSI A156.3-2001 Grade 1 standards.
Shim Kit:	For glass lite applications; ¼" thick specify SK 19-R-¼".
161 Cutout:	Device covers 161 cutout with KIK/KIL and Centron trims. Other trim requires cover plate.

REVERSIBLE VERTICAL ROD DEVICE 19-V SERIES

Panic Exit Hardware

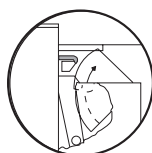


3788
Strike

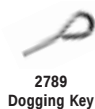
Manufactured to the same exacting standards as the 19 Rim, the 19-V Exit Device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch with latch retention and square bolt at bottom. The "EO" (Exit Only) device is ready to accept any trim function shown on page 12.

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-TP	2 or 5	05
19-V-TP-NL	2 or 5	06
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.



Latch retention hold is in the top latch. Retainer is released when it engages the strike.



2789
Dogging Key



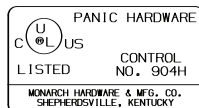
Cylinder Dogging



2130
Strike

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 12 and 13.
Finishes:	Powder-coated aluminum-SP28; powder-coated duranodic-SP313; stainless steel US-32D.
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.
Latchbolt:	Top stainless steel $\frac{3}{4}$ " throw. Bottom square bolt $\frac{1}{2}$ " throw.
Deadlocking Latchbolt:	Standard.
Dogging Feature:	$\frac{1}{2}$ 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:	3'0" and 4'0". (See chart on page 15.)
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.
Electric Function:	Can be interfaced with building security systems. Security monitoring, electric dogging, exit indicator, and exit alarm available.
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 2001 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 $40\frac{1}{16}$ " 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.



Fire Exit Hardware



3788
Strike

Manufactured to the same exacting 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 12.

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-TP	2 or 5	05
F-19-V-TP-NL	2 or 5	06
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.



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



2130
Strike

Specifications

Hand:	Field reversible.
Functions:	All functions built into "EO" device. All 19 Series trim works with rim or vertical devices. See Trim Selection Chart on pages 12 and 13.
Finishes:	Powder-coated aluminum-SP28; powder-coated duranodic-SP313; stainless steel US-32D.
Strikes:	3788 strike is surface applied. 2130 strike is mortised into floor.
Latchbolt:	Top stainless steel $\frac{3}{4}$ " throw. Bottom square bolt $\frac{1}{2}$ " throw.
Deadlocking Latchbolt:	Standard.
Stock Sizes:	3'0" and 4'0". (See chart on page 15.)
Doors:	$1\frac{3}{4}$ " thick, wood or metal. Specify if other than $1\frac{3}{4}$ " thick.
Projection:	$2\frac{1}{2}$ " maximum.
Electric Function:	Can be interfaced with building security systems. Security monitoring, electric dogging, exit indicator, and exit alarm available.
Fasteners:	All mounting screws are concealed. All machine screws standard.
Sex Bolts:	3-#4122 ($\frac{3}{4}$ -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 A156.3-2001 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% 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-4023 Shown

Removable Mullion

- The 2923, (F)4023 and (F)KR4023 steel mullions are for use with the 19-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.
- Monarch 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. Please see Price Book for ordering information.
- The (F)-4023 and KR(F)-4023 fire-rated mullion also includes four stabilizer blocks as required for labeled installations.
- Strikes are not furnished with the mullion. Please see page 11 for strike information.
- Mullions may be cut on the job for doors under stock lengths.
- KR mullions require 1½" mortise cylinder with standard "A" cam.

Mullion Features

- Mullion fittings – ductile iron.
- (F)4023 and KR(F)4023 – 2" x 3" x height.
- 2923 mullion – 1½" x 2½" x height.
- Prime coat only.
- 7' or 8' door opening standard, other door opening as specified.

Cylinders

Control Trim

- Cylinders for control trim use 1½" mortise cylinder with standard "A" cam (cam measures approximately 1" overall and ⅝" wide at tip), except NL Control which uses rim cylinder with either horizontal or vertical tailpiece.
- Cylinder supplied only when specified. (1¼" long and "C" keyway standard.)
- Cylinders available keyed alike and keyed different.

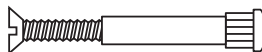
Centron Trim

- Rim cylinder.

Sex Bolts

Sex bolts are available for 1¾" door thickness. Screws to fit are available in ¾" and 2" lengths to cover a wide range of door thicknesses.

2729 (#10-24 Thread)
4122 (1/4-20 Thread)



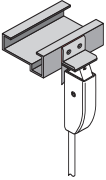
STRIKES AND ACCESSORIES

Strikes

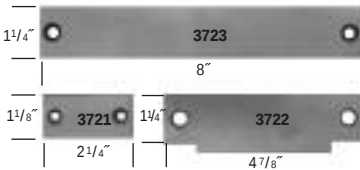
For (F) 19-R Rim Devices (center latching)

 F570 Standard strike.	 F490 Optional strike.	 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 2⁵/₁₆" backset. 571A is trimmer and projects less into opening.		

For (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. 

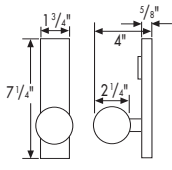
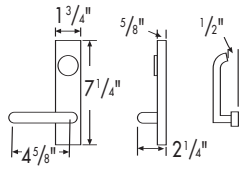
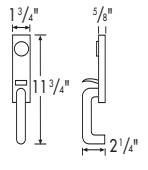
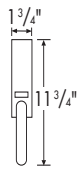
Filler Plates

 1¹/₄" 8" 1¹/₈" 2¹/₄" 4⁷/₈"	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
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TRIM DESIGNS

Control Trim

SP28, SP313 and US-32D.

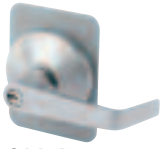
K-Control	L-Control				TP-Control	DT-Control	NL-Control
 911K BE K-DT NL	 L-Control-Avalon 912L BE L-DT NL	 L-Control-Dane 912L BE L-DT NL	 L-Control-Sutro 912L BE L-DT NL	 L-Control-Quantum 912L BE L-DT NL	 910TP BE NL	 910DT Pull when dogged.	 910NL Key retracts latchbolt.
 Key locks or unlocks trim. Knob retracts latchbolt when trim is unlocked.	 Lever Projection: Quantum = 3" Sutro = 2 1/2" Dane = 2 1/2" Key locks or unlocks trim. Lever retracts latchbolt when trim is unlocked. Dane, Quantum and Sutro levers return to within 1/2" of door.				 Key locks or unlocks trim. Thumbpiece retracts latchbolt when trim is unlocked.		

Cover Plates

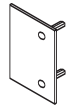
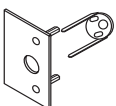
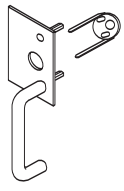
 4167 3 1/4" x 15" x .050 Used with TP control & DT control Covers 161 & 86 cutouts	 4168 3 1/4" x 7 1/2" x .050 Used with EO device to cover No. 86 cutout for mortise lock	 4170 3 1/4" x 7 1/2" x .050 Used with K control, DT/K control, L control, or DT/L control Covers 161 & 86 cutouts
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For type 86 cutout specify 4174 inside cover plate.

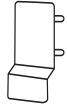
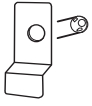
Key-In-Knob/Key-In-Lever

 913	 914KIL	 914-KIL-IC
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Centron Trim

 930 EO	 930 C	 930 DT	 930 NL	 PULL ONLY 917 DT CTC - 5/2" Round - 3/4" dia. Pull when dogged
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Trident Trim

 920 DT	 920 NL
--	--

TRIM CHART

Control							
DEVICE	DT	NL	TP	T-BE	K	K-BE	K-DT
19-R / 19-V	910	910	910	910	911	911	911

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

KIK & KIL							
DEVICE	KIK	KIK-LS/LK	KIK-NL	KIL *	KIL-LS/LK ¹	KIL-NL *	KIL-IC*
19-R / 19-V	913	913	913	914	914	914	914

Trident Trim			Centron		
DEVICE	NL	DT	C	DT	NL
19-R / 19-V	920	920	930	930	930

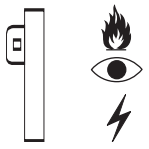
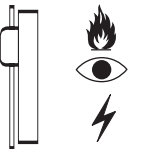
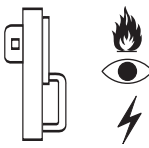
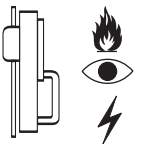
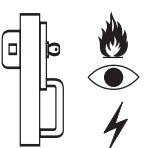
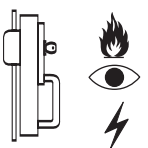
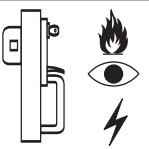
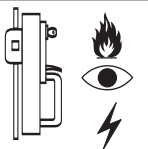
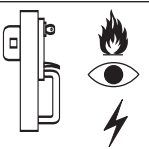
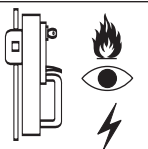
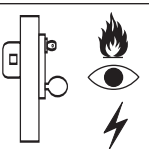
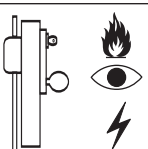
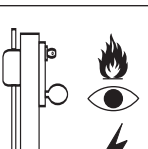
*Specify hand.

Note: For "NL" night latch function on TP, K and L add "NL" after trim number.

All locking trim except KIK and KIL furnished less cylinder.

TYPE AND FUNCTIONS

These pages list all functions available for the 19 Series devices.

	Rim Devices ANSI Type 1& ANSI Type 4	Vertical Rod Devices ANSI Type 2 & ANSI Type 5
Functions (ANSI)	(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 latchbolt is retracted by key. Key removable only when locked.	 19-R-NL	 19-V-NL
TP (05) Entrance by thumbpiece. Key locks or unlocks thumbpiece.	 19-R-TP	 19-V-TP
TP (NL) (06) Entrance by thumbpiece only when released by key. Key removable only when locked.	 19-R-TP(NL)	 19-V-TP(NL)
K or L or KIK or KIL (08) Entrance by knob or lever. Key locks or unlocks knob.	 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 KIK(NL) 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)

 **Fire Exit Hardware** Use "F" prefix for fire exit hardware.

 **Security Monitor** Latch, device, and authorized egress monitors. (See Electrified Hardware catalog.)

 **Electric Function** Electric dogging. (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	3½"	2'5¼" TO 3'0"
(F) 19-V	4'0"	3788	2130	3½"	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 ⅝" Stop

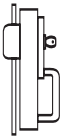
DEVICE & TRIM	Length	Strike	Min. Stile	Door Opening Width
19-R	3'0"	F570 565	3½" 1¾"*	2'5¼" TO 3'0" 2'4¾" TO 2'9¼"
F-19-R	3'0"	F570	3½"	2'5¼" TO 3'0"
19-R	4'0"	F570 565	3¾" 1¾"*	3'0" TO 4'0" 3'0" TO 3'9¾"
F-19-R	4'0"	F570	3¾"	3'0" TO 4'0"

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

Dimensions:

- Recommended height from finished floor – 40⅝" at CL.
- Touchbar Projections: Neutral - 2½", Depressed – 1⅞"
- Extension rods or longer top rods available upon request. Specify door height.
- Dummy touchbar available. Specify 190 DT 3' or 4'. Overall length: 3': 30½" 4': 42⅝"
- Changes for minimum door size for charts on left: For cylinder dogging, add 2¼" to minimum door size. For exit alarm, add 4½" to minimum door size. For electric dogging, add 4½" 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	Mullion	Panic
19-R	3'0"	F570	3½" 3¾"	2'5¼" TO 3'0"	–	2923 ¹	4023/KR4023
		565	3⅝" 3⅞"	2'4¾" TO 2'9¼"	–	2923 ¹	4023/KR4023
F-19-R	3'0"	F-570	3¾"	2'5¼" TO 3'0"	(F)4023 KR(F)4023	–	–
19-R	4'0"	F570	3½" 3¾"	3'0" TO 4'0"	–	2923 ¹	4023/KR4023
		565	3⅝" 3⅞"	3'0" TO 3'9¾"	–	2923 ¹	4023/KR4023
F-19-R	4'0"	F-570	3¾"	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.





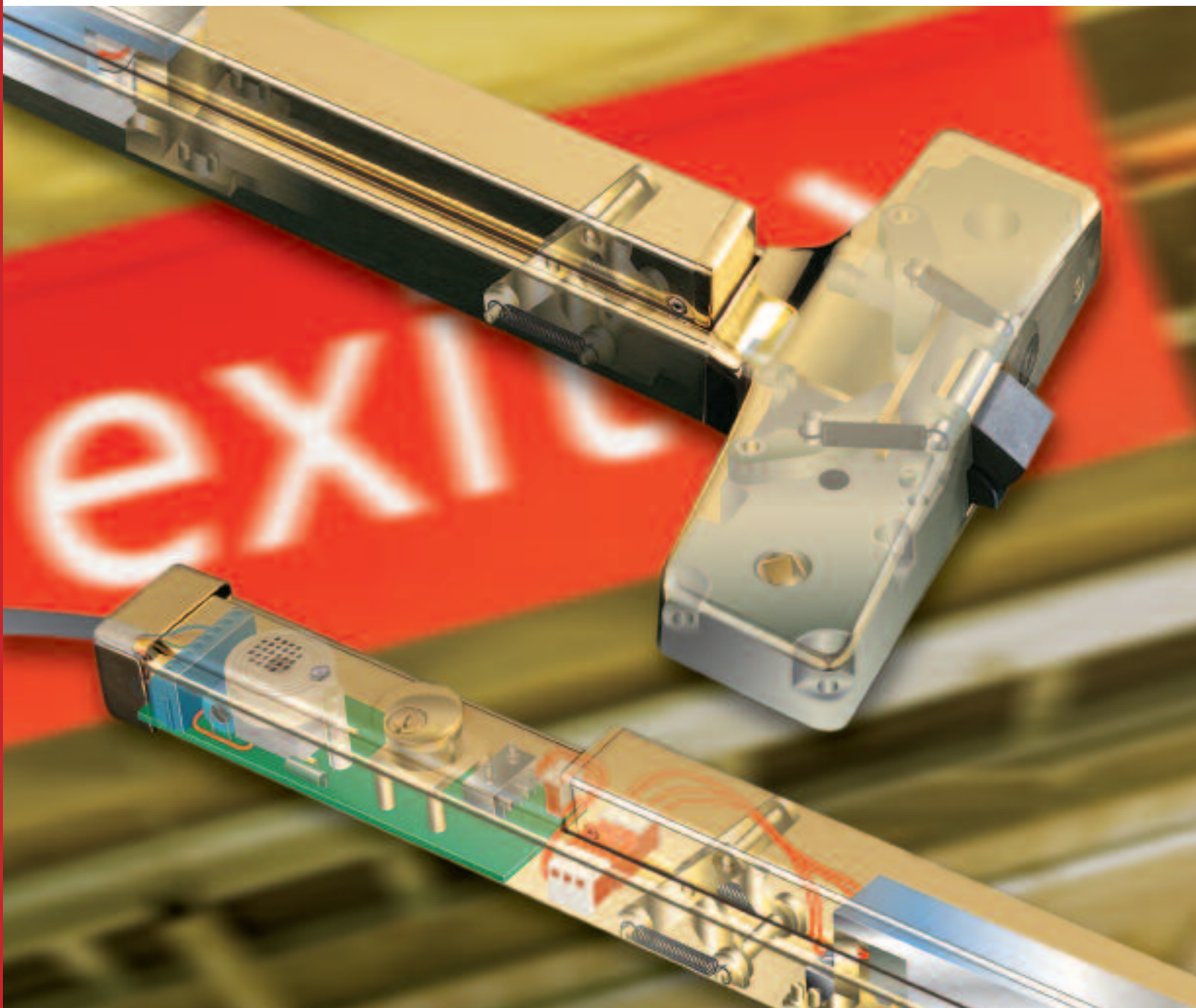
Ingersoll Rand's Security Technologies Sector is a leading global provider of products and services that make environments safe, secure and productive. The Sector's market-leading products include electronic and biometric access control systems; time and attendance and personnel scheduling systems; mechanical locks and portable security, door closers and exit devices, steel doors and frames, architectural hardware and technologies and services for global security markets.

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FALCON

*Falcon
Monarch
Dor-O-Matic*

Monarch Electrified Series



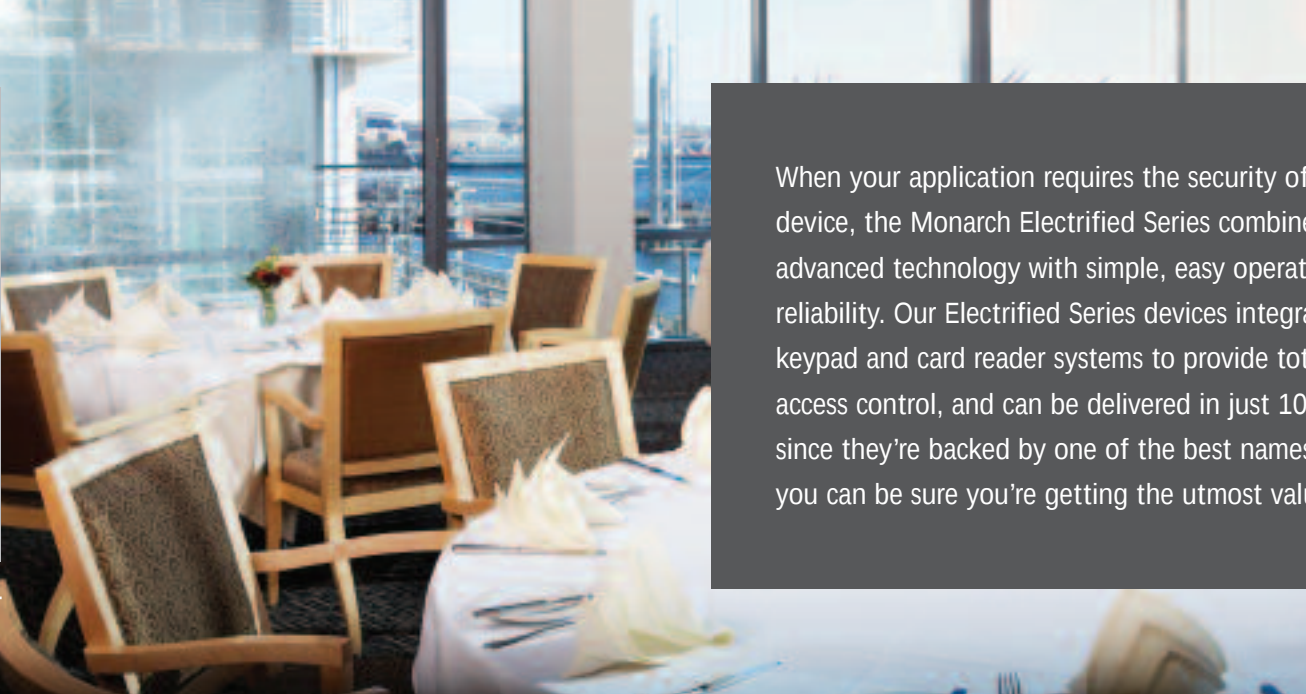
THE FALCON DIFFERENCE

S A F E T Y , S E C U R I T Y A N D U N C O M P R O M I S I N G V A L U E

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 door hardware 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 door hardware a powerful choice no matter what your project.



MONARCH ELECTRIFIED SERIES



When your application requires the security of an electrified exit device, the Monarch Electrified Series combines the most advanced technology with simple, easy operation and guaranteed reliability. Our Electrified Series devices integrate seamlessly with keypad and card reader systems to provide total security and access control, and can be delivered in just 10 to 15 days. And since they're backed by one of the best names in the business you can be sure you're getting the utmost value and reliability.

FEATURES

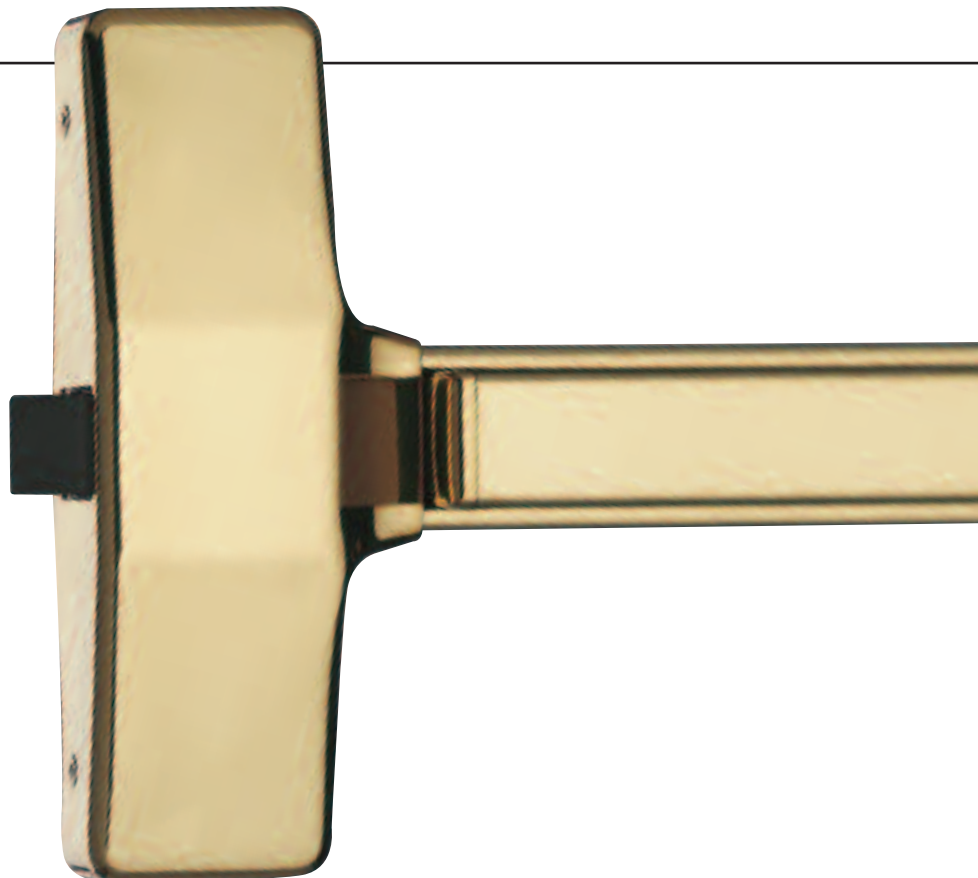
ANSI Grade 1 security

All electrical features are UL approved for fire and panic applications

Electrified Series devices can be integrated into an ADA-compliant system

All electrified features are built by hand and tested in our electronics lab

Hand-polished finishes for exceptional good looks



CONTENTS

Electric Dogging (ED) Page 5

Applications: churches, auditoriums, theaters, courtrooms, and anywhere that needs dogging with an electronic control.

- Provides quiet, interruption-free operation.
- Use on any pushbar (17, 18 or 19) series to hold latches retracted for push-pull operation.
- Can be added to existing devices.
- Works with fire-rated doors (when tied into fire alarm panel).

Electric Latch Retraction (ELR) Pages 6-7

Applications: schools, hospitals, office complexes, theater, churches, shopping centers, airports, security complexes, detention facilities.

- Can be activated to retract latched doors.
- Makes doors push-pull during business hours or performances.
- Use with automatic doors for ADA compliance.
- Works with fire-rated doors (when tied into fire alarm panel).

Delayed Egress (DX) Pages 8-9

Applications: schools, assisted living facilities, airports, hospitals, stores, courtrooms, detention facilities.

- DX unit, when armed, will deny exit to unauthorized personnel/residents/visitors for 15 seconds (30 second delay is available with the proper written authorization from the local authority).
- Works with fire-rated doors (when tied into fire alarm panel).

Electric Lock and Unlock (FSA/FSE) Pages 10-11

Applications: schools, office complexes, small stores, hospitals, churches, assisted living facilities.

- Works as an “electric key” with a card reader or key pad.
- Use for front entrances to facilities as well as inside door control.
- Commonly used in conjunction with DX feature for access from exterior.
- Requires a knob, lever, or thumbpiece trim.

Exit Alarm (EA/HWEA) Pages 12-13

Applications: restaurants, hotels, hospitals, schools, grocery or department stores, store/stock rooms, warehouses.

- Local alarms that sound when door is used for exit.
- Use anywhere you would use a pushbar (17, 18 or 19) series device.
- Controls customer traffic to a main area, yet allows for additional emergency exits.

Device Monitoring Features Page 14

Applications: anywhere an exit device would need monitors to indicate use, alarms or status.

- Communicates the status of the door hardware.
- Monitors latch conditions.
- Signals automatic door operators to open.
- Use with a magnetic lock so exit is permitted upon activation of a remote device.

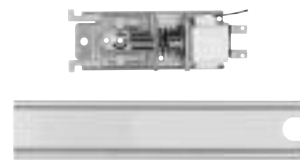
Note:

All electric devices (except monitors) must use respective Falcon power supply for warranty to apply.

ELECTRIC DOGGING FEATURE

Electric Dogging Feature (ED) - for all 17, 18 and 19 Series devices.

Our Patented (Electric Dogging) ED provides quiet, interruption-free operation. This feature can be used on any pushbar (17, 18 or 19) series to hold latches retracted for push-pull operation and can be added to existing devices. Electric dogging is ideal for a variety of applications such as churches, auditoriums, theaters, courtrooms, and anywhere that needs dogging with an electronic control for quiet or uninterrupted operation.



ED Retrofit Kit

Minimum door width required for standard devices

DEVICE	3'	4'
17-R	2' 11"	3' 5"
17-V	2' 10 ¹ / ₂ "	3' 5 ¹ / ₄ "
17-C	2' 11 ³ / ₄ "	3' 4 ³ / ₄ "
18-R	2' 10 ¹ / ₂ "	3' 4 ¹ / ₂ "
18-V	2' 10 ¹ / ₂ "	3' 4 ¹ / ₂ "
18-C	2' 11 ¹ / ₂ "	3' 5 ¹ / ₂ "
18-M	2' 11 ¹ / ₂ "	3' 5 ¹ / ₂ "
18-TPL	2' 11 ¹ / ₂ "	3' 5 ¹ / ₂ "
19-R	2' 9 ¹ / ₄ "	3' 4 ¹ / ₂ "
19-V	2' 9 ¹ / ₄ "	3' 4 ¹ / ₂ "

Specifications

- Required power supply LUT-2 (24 VDC).
 - Required supply voltage LUT-2 (115 VAC/60Hz/1 Amp).
 - Power transfer hinge required 2-wire minimum rated 1/2 Amp.
- * Power supply must be purchased for warranty to apply.**

UL Listed

- Panic and fire rated exit devices.
- Retrofit available.

Applications

- Quiet operation at dogged position.
- Theater, Library, Courtroom, Auditorium, Church.
- Retro-Fit available.
 - Includes: - Electric Dogging unit (shown above)
 - Channel cover
 - Mounting screw
 - Slide plate post assembly
 - Installation instructions
- Key-Override (KOR) available.
- Cannot be used with EA, HWEA or DX.
- ED feature used with fire-rated devices must be tied into fire alarm panel.

ELR SYSTEM

Electric Latch Retraction (ELR) - for all 17 and 18 Series devices.

The Electric Latch Retraction (ELR) feature provides control of latch retraction by guard or security system, allowing free entrance from outside or trim side of door. The ELR system can be activated to hold the latch open momentarily or for extended periods of time. The ELR feature can be interfaced with automatic doors, card readers, automatic fire alarm systems, etc. The ELR application requires the use of the RDS-2 power supply.



Wire Chart

LENGTH OF WIRE RUN (FT.)	24VDC 4 AMPS
0-100	14 AWG
101-200	12 AWG
201-300	10 AWG
301-400	8 AWG

Specifications

- Solenoid rated for continuous-duty operation with RDS-2 (required power supply).
- Current inrush provided by RDS-2 of 24V DC 4 Amps for one second duration, 5V DC 1 Amp continuous.
- Supply voltage required to RDS-2 - 115V/60HZ/5 Amps.
- Solid state circuitry, microprocessor based.
- RDS-2 power supply (required):
 - On-board D.I.P. switches for variable relatch delay.
 - On-board L.E.D. diagnostics.
- Power transfer hinge or electric power transfer required (4 wires rated at 1 Amp).
- Electric Latch Retraction can be used in conjunction with EA (Exit Alarm), FSA/FSE (Fail Safe/Fail Secure), ED (Electric Dogging) and Security Monitoring (DM, LM, AE, SM, LK) features; ELR feature is available on all 17 and 18 Series standard device specifications.
- Auto-reset fuse.

Special Application Specifications

- Recommended for automatic door operations openings. Use SM feature to activate automatic operator eliminating the need for relays and timing issues.



Required Power Supply- RDS-2*

The RDS-2, when energized by closing a dry contact switch, will activate the first ELR device and one second later will activate the second ELR device. For each RDS-2, two ELR devices can be controlled by one switch. To be able to control each independently, an RDS-2 would have to be ordered for each ELR feature. The ELR feature will not work properly without the RDS-2 power supply. To order, specify "RDS-2".

Note:

1. Each RDS-2 comes in an 8" x 8" x 4" NEMA rated box.
2. RDS-2 weight is 9 lbs. 6 oz.
3. For hook-up, see schematic on opposite page.
4. ELR devices will not work properly and will not be warranted without purchase of RDS-2 power supply.

How to Order

To order ELR feature add "ELR" prefix to device designation. (Example: ELR-18-R-EO)

Note:

1. Closing normally open dry contact to the RDS-2 power supply will retract latch(s). Opening normally open switch returns latch(s) to locked position.
2. For special applications, consult factory.

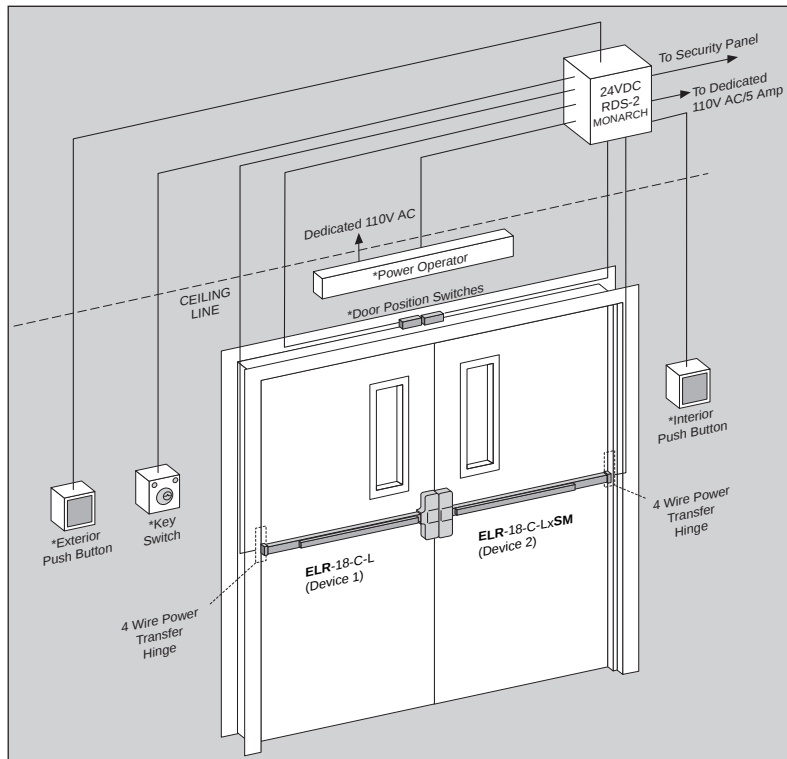
**Power supply must be purchased for warranty to apply.*

APPLICATION AND WIRING

Electric Latch Retraction (ELR)

Electric Latch Retraction-Double Doors x Key Switch

EXAMPLE: ADA Compliant Entrance



Operation:

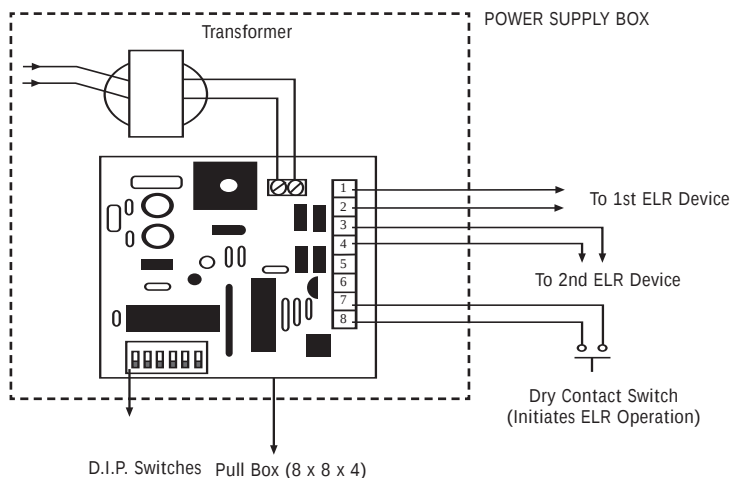
- Push button or card reader/keypad use from interior or exterior allows latch retraction and entry from either door.
- Retraction of the solenoid on device with integral SM momentary dry contact monitor switch initiates power operator.
- Exterior card reader or keypad may be turned on/off by maintained contact key switch.

*Supplied by Schlage.

Features shown: ELR Electric Latch Retraction
SM Solenoid Monitor Feature

RDS-2 Schematic

Incoming Power
110V AC
60Hz
5 AMPS



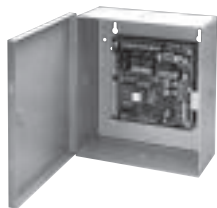
DELAYED EGRESS SYSTEM

Delayed Egress (DX) - for all 18 Series rim, mortise or concealed devices

The DX feature provides system control for limited egress and high security areas which require Accident Hazard or Fire Exit Hardware. The DX system is manufactured and tested to exceed ANSI A156.3 (2000) and A156.24 (1992) Grade 1 standards, and meets all requirements for NFPA 101, Special Locking Arrangement.

Internal Device Lock

When the **DX** system is armed, the internal device lock will remain secure against attempted override pressure and severe impacts. The **DX** latchbolt can be retracted upon completion of the alarm cycle with depression of the touchpad.



Delayed Egress Features:

- **Fire Alarm Contacts**
Fire alarm input disables the delay function and the device provides normal egress operation.
- **Key Switch Operation**
Arm, disarm, reset and bypass the DX system by the mortise cylinder on the device.
- **LED Device Status Indicator**
Color coded lamps indicate arm, disarm, bypass and alarm status.
- **External Device Control Contacts**
Optional wiring configuration will allow manual remote Arm, Disarm and Reset (consult factory for wiring diagrams).
- **Remote Monitoring**
Remote monitoring of latch position (LM) and lock or unlocked status of trim (LK) are optional features.
- **Internal Alarm Horn**
Depression of the DX system touchpad initiates a local, internal device alarm of 100 db when armed.
- **Power Transfer Hinge/Electrical Power Transfer**
Requires UL approved 8-wire electric hinge for standard DX application. Adding additional features (i.e. FSA/FSE, AE, DM, etc.) requires additional wires.
- **Trim Selection**
All standard device trims and functions are available, including NL and BE/LK functions, thumbpiece and lever lock/unlock and will function normally even when the delayed egress feature is armed. All DX system devices are also available with optional electric locking trim Fail Safe (FSA) or Fail Secure (FSE). Use of standard locking trim or electric locking trim (for access control) will allow authorized entrance. LUT-2 required for FSA/FSE option.
- **Remote Alarm Contacts**
The remote alarm contacts close after the 3-second nuisance initiates the irreversible alarm cycle.



Operation:

The DX system is a totally self-contained delayed exit system which, when placed in the armed state, will deny exit to unauthorized personnel for 15 seconds (30-second delay is available with proper written authorization from the local authority having jurisdiction). Depression of the touchpad for longer than three seconds will initiate an irreversible local audible and visual alarm sequence. Pressing the touchpad by accident or for less than three seconds will sound the device horn without initiating the alarm sequence (acting as a nuisance alarm). Remote monitoring is available to alert security if they are not in the immediate area. The person depressing the touchpad is detained and security personnel are alerted for quick response and interception of the offender. Consult factory for special timing requirement (other than above).

Power Supplies*

The DX system is controlled and operated with solid state micro-processor boards, internal to the device and power supply. The DEX power supply can operate up to two devices by adding additional (DXM) modules. DXM delayed egress device modules may be plugged into the motherboard inside the DEX power supply control box. The delayed egress function of DX devices will not operate without a **DEX** power supply.

How to Order

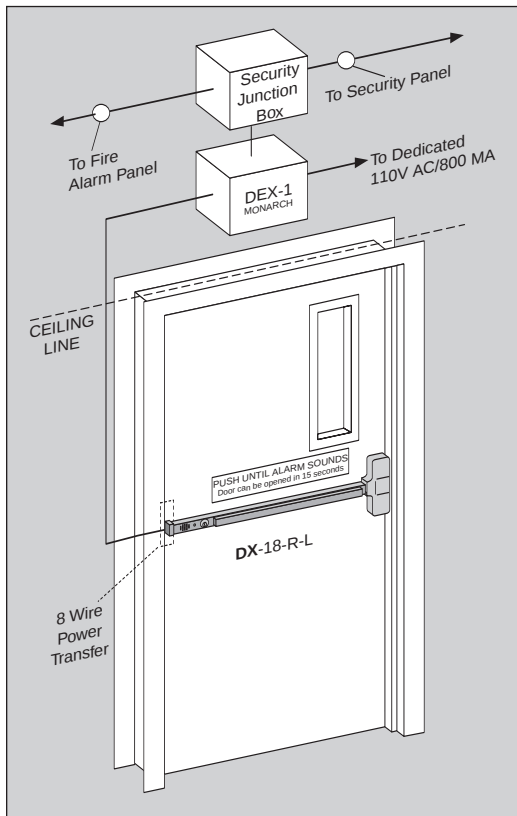
To order a delayed egress device system add "DX" prefix to device designation. List power supply suffix with respective quantity of modules as a separate line item. (Example: For two individual egress doors, 2 each-DX-18-R-L Quantum x RHR, 1 each-DEX-2).

**Power supply must be purchased for warranty to apply.*

APPLICATION AND WIRING

Delayed Egress (DX)

Delayed Egress Application Single Door x Monitored Exit



Operation:

- Depression of touchpad for more than three seconds initiates irreversible alarm and 15-second delay for egress.
- Fail Safe application. Fire alarm initiation places device in “free egress” mode.
- Hard wired internal local alarm will sound upon egress when armed by key on device.

Features shown: DX Delayed Egress

Note:

Access control from trim side can be achieved by use of FSA/FSE feature (requires 2 additional wires on power transfer hinge and LUT-2 power supply).

Wire Chart

LENGTH OF WIRE RUN (FT.)	24VDC 4 AMPS
0-50	18 AWG
51-75	16 AWG
76-150	14 AWG
151-200	12 AWG

ELECTRIC LOCK/UNLOCK TRIM

Electric Lock/Unlock Trim (FSA/FSE) - for all 17, 18 and XX Series devices.

The **FSA/FSE** (electric lock/unlock) feature allows the controlling of trim while still maintaining free egress at all times. The lock/unlock command can be controlled by a security system, fire alarm system, key switch, card reader, push button or touchpad. **FSA** (Fail Safe—unlocks when power is interrupted) can be used in areas requiring doors to be unlocked due to fire, power failure or emergency situations. (Examples: stairwells, hospitals, fire exits, etc.)

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



Wire Chart

LENGTH OF WIRE RUN (FT.)	24VDC 0.4 AMPS
0-500	18 AWG
501-700	16 AWG

Specifications

- Solenoid rated for continuous duty at 24V DC 0.4 Amps.
- UL listed devices.
- Device channel is used as conduit on 17 and 18 Series devices. (XX Series devices require conduit through door).
- Power transfer hinge 2-wire minimum rated 1/2 Amp.

How to Order

To order FSA/FSE feature add FSA or FSE suffix to device designation. (Example: 18-R-L-FSA)

Note:

1. FSA/FSE can be used on all devices except Concealed Vertical and Three Point Latch.
2. For special applications consult factory.
3. The FSA/FSE feature can be used in conjunction with ELR (Electric Latch Retraction), EA (Exit Alarm), HWEA (Hard Wire Exit Alarm), Security Monitoring (DM, LM, AE, SM, LK), DX (Delayed Egress) and ED (Electric Dogging).

Required Power Supply- LUT-2*

- LUT-2 is a power supply unit for FSA/FSE features requiring 115V/60HZ/5 Amp service and control wiring to device.
- LUT-2 will operate up to 2 devices either simultaneously with one switch, or independently with two switches. 24V DC 1 Amp output from LUT-2.
- To order LUT-2 power supply, specify "LUT- 2" for 1 to 2 device controls.

* Power supply must be purchased for warranty to apply.

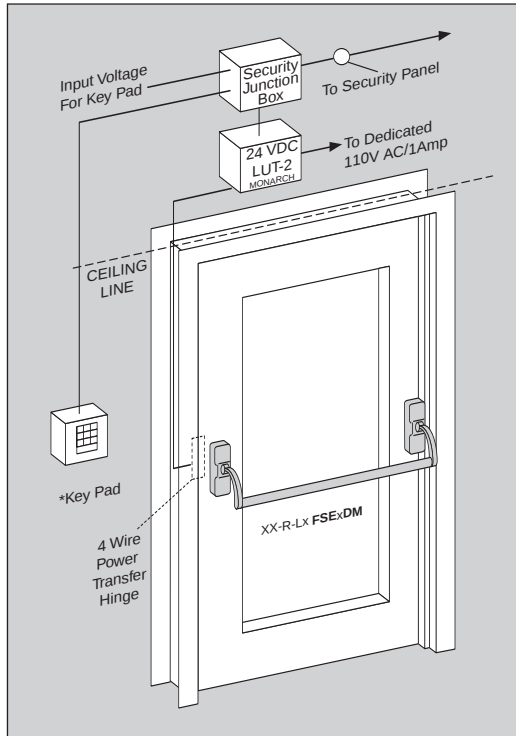
Note:

1. LUT-2 weight 4 lbs.
2. LUT-2 comes in a 6" x 6" x 4" NEMA rated box.

APPLICATION AND WIRING

Electric Lock/Unlock Trim (FSA/FSE)

Electric Lock/Unlock Trim Single Door x Access Control

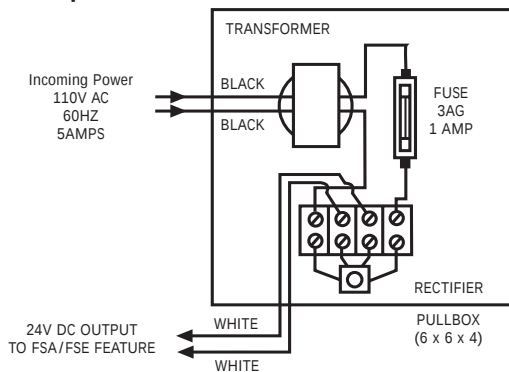


Operation:

- Keypad use from exterior allows entry from exterior by unlocking device trim for duration set by reader/controller.
- Fail Secure (FSE) application. Loss of power maintains trim in locked position. Egress from interior is available at all times.
- Exterior override access by key in exterior trim, key removable only when locked.
- Security monitoring optional items shown are: Device Monitoring (DM) (crossbar depression and latch movement).

**Supplied by Schlage.*

LUT-2 Schematic DC Output



EXIT ALARM

Exit Alarm (EA/HWEA) - for all 17, 18 and 19 Series devices.

The Exit Alarm/Hardwire (EA/HWEA) 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 violated. The exit alarm can only be reset by way of a standard 1½ mortise cylinder with standard "A" (5/16" wide x 3/4" long) cam. 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	3'	4'
17-R	2' 11"	3' 5"
17-V	2' 10 ⁵ / ₁₆ "	3' 5 ¹ / ₄ "
17-C	2' 11 ³ / ₄ "	3' 4 ³ / ₄ "
18-R	2' 10 ¹ / ₂ "	3' 4 ¹ / ₂ "
18-V	2' 10 ¹ / ₂ "	3' 4 ¹ / ₂ "
18-C	2' 11 ¹ / ₂ "	3' 5 ¹ / ₂ "
18-M	2' 11 ¹ / ₂ "	3' 5 ¹ / ₂ "
18-TPL	2' 11 ¹ / ₂ "	3' 5 ¹ / ₂ "
19-R	2' 9 ¹ / ₄ "	3' 4 ¹ / ₂ "
19-V	2' 9 ¹ / ₄ "	3' 4 ¹ / ₂ "

Specifications

- All solid state circuitry.
- Powered by one 9V alkaline battery (supplied).
- LED indicator showing armed status of alarm.
- 10 second delay (during arming) permitting egress.
- Outside key entry without activating alarm (will not work when set up as DM option to activate EA).
- Works with rim, mortise, concealed, vertical rod and three point latch devices.*
- EAK retrofit kit available for your existing devices.**
- Alarm sounds continuously at 90 db level for approximately 10 minutes prior to automatic reset. Low decibel beeping will continue at intervals until manual reset (HWEA only).
- Low battery power indication.
- UL listed.

* For applications on vertical rod or T.P.L. devices, specify DM (Device Monitor); specify DL (deadlocking) on rim devices.

** Not recommended as a retrofit kit for your existing surface vertical, T.P.L. and nondeadlocking rim devices.

The EA feature can be used in conjunction with ELR (Electric Latch Retraction), FSA/FSE (Fail Safe/Fail Secure) and Security Monitoring (DM, LM, AE) features.

How to Order

To order EA feature add "EA" prefix to device designation. (Example: EA-18-R-EO)

To order EAK (Exit Alarm Kit) feature order "EAK" plus device length (3' or 4'), type of device (17, 18 or 19 Series) and the finish of your existing device.

(Example: EAK-4', 17 Series, US 10 or EAK-4', 19 Series, US32D) (For retrofit application)

Note:

1. Both EA (Exit Alarm) and EAK (Retrofit Kit) supplied with self-adhesive warning label. (See photo on page 13)
2. For special applications, consult factory.

Hard Wire Option - HWEA (Hard Wired Exit Alarm)

The HWEA feature allows for the exit alarm to be hooked up to 24V DC service instead of the use of a 9V battery.

- Power transfer hinge-2 wire minimum rated 1/2 Amp. To order add "HWEA" in place of "EA" as above.

(Example: HWEA-18-R-EO)

Required Power Supply (For HWEA)*

Specify LUT-2 for use as a 24V power supply.

* Power supply must be purchased for warranty to apply.

Notes:

1. LUT-2 weight 4 lbs.
2. LUT-2 comes in a 6" x 6" x 4" NEMA rated box.

EXIT ALARM

Exit Alarm (EA/HWEA)

Device with Exit Alarm (EA/HWEA)



EA-18-R-EO
Exit Alarm Device



EA/HWEA Sticker



HWEAK
Hard Wire Exit Alarm Kit



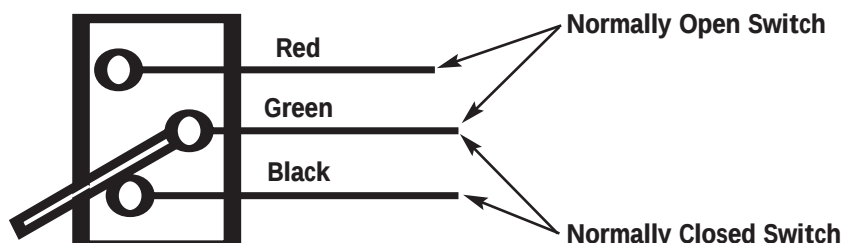
EAK
Exit Alarm Kit

Device Monitoring - for all 17, 18, 19 and XX 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 (except SM) can be used in any combination with any other Falcon feature. Consult factory for special applications.

Monitoring Switch Schematic

Normally Open – makes circuit when device is activated.
Normally Closed – breaks circuit when device is activated.



DM, LM, AE, LK, SM 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 deadlock 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 AE (Authorized Egress) feature monitors the depression of the pushbar 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.
- The LK (Locking Monitor) feature monitors the position of the locking mechanism of the trim, indicating locked status. When used with the DM feature, a complete security indication of outside and inside lock status is achieved.
- The SM (Solenoid Monitor) feature for ELR application on the device monitors the movement of the device solenoid. This monitor switch is recommended for initiation of power operators on rim, surface vertical, concealed vertical and mortise devices. It functions as a dry contact momentary action switch.

How to Order

To order any individual or combination of monitor feature(s) add the respective prefix(s) to device designation.
 (Example: ELR-AE-SM-DM-18-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 cylinder (1 $\frac{1}{8}$ mortise cylinder with "A" ($\frac{5}{16}$ " wide x $\frac{3}{4}$ " long) standard cam required—not supplied). Activating KOR feature allows any feature to be disabled for day time 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/HWEA feature, cylinder/standard dogging or XX Series devices. To order KOR feature add KOR prefix to device designation.
 (Example: KOR-DM-17-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.



Ingersoll Rand's Security Technologies Sector is a leading global provider of products and services that make environments safe, secure and productive. The Sector's market-leading products include electronic and biometric access control systems; time and attendance and personnel scheduling systems; mechanical locks and portable security, door closers and exit devices, steel doors and frames, architectural hardware and technologies and services for global security markets.

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