

FALCON

*Falcon
Monarch
Dor-O-Matic*

Monarch XX Series

Crossbar Exit Device



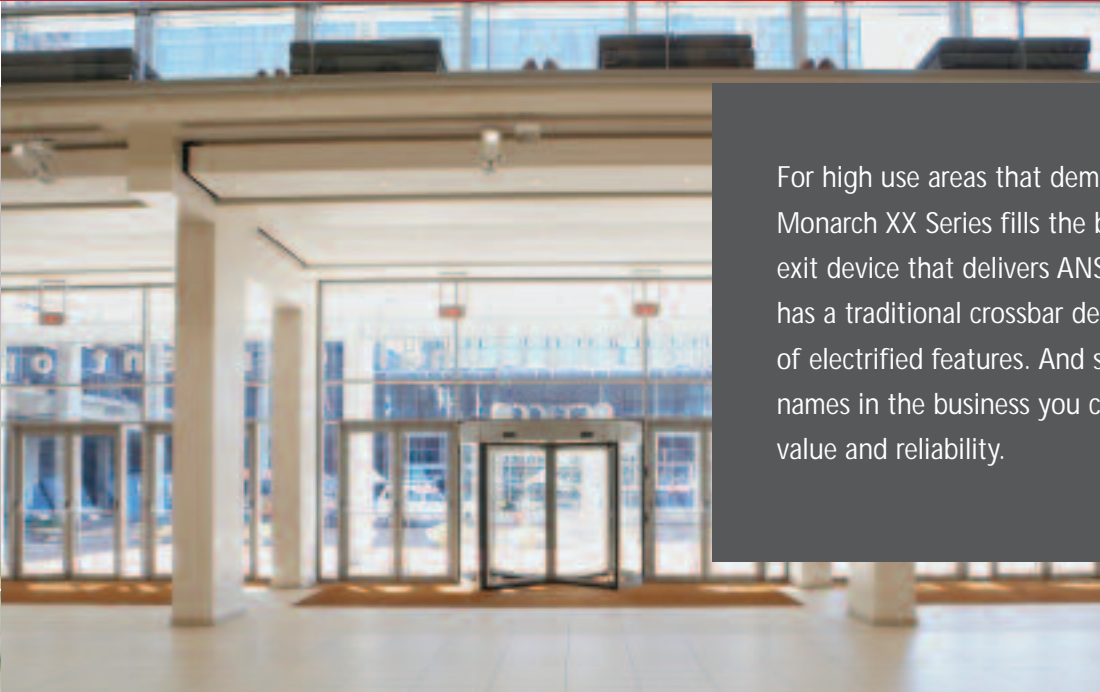
THE FALCON DIFFERENCE

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

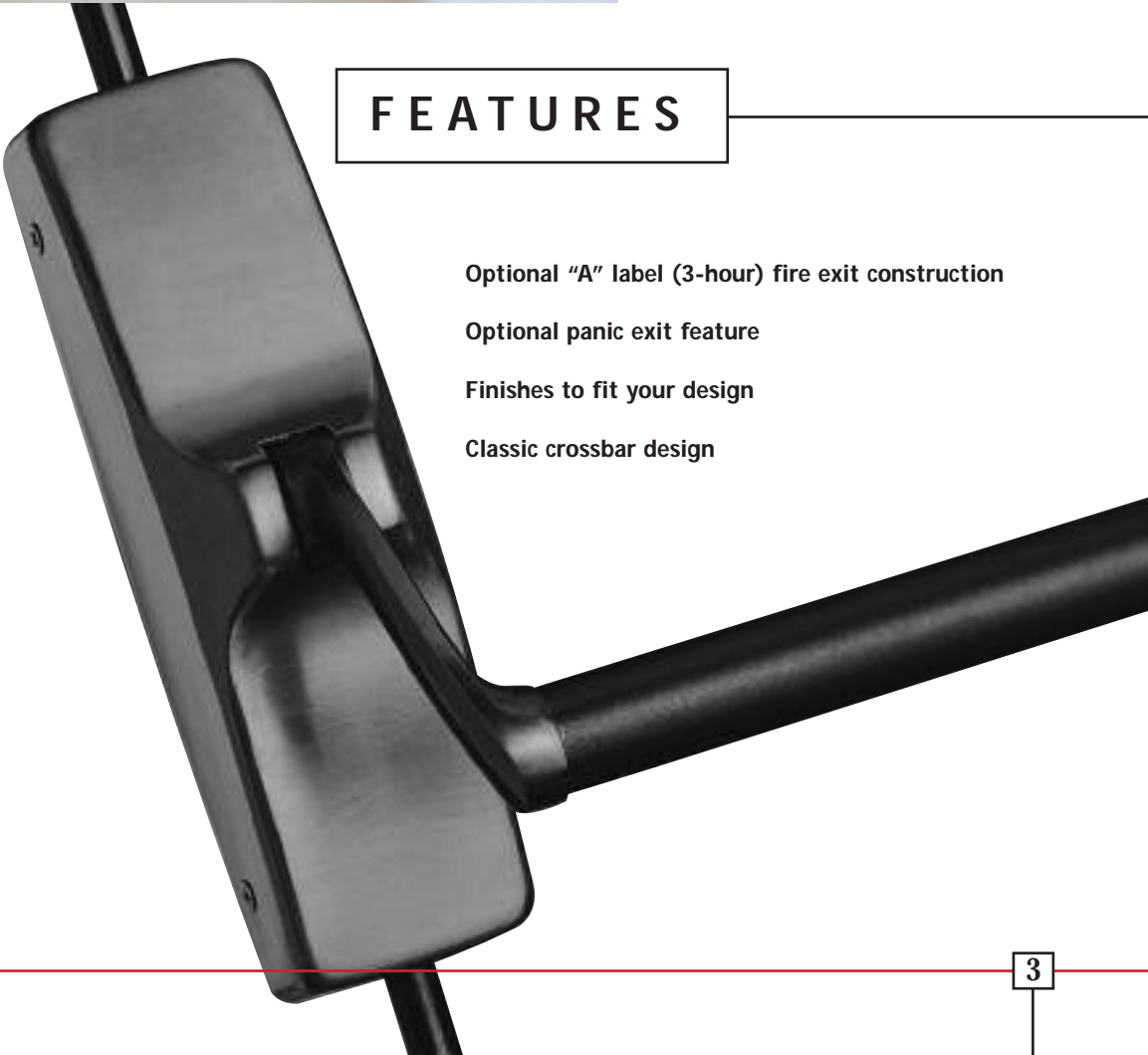
At Falcon, we know that every product you sell not only has to meet local building codes, but also your expectations for performance and quality. We take your expectations seriously, and that's why we build our door hardware to deliver durability, convenience and unmatched value. After all, we've built 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

AE F XX V L-DANE US3 3' LHR LBR SNB WD

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

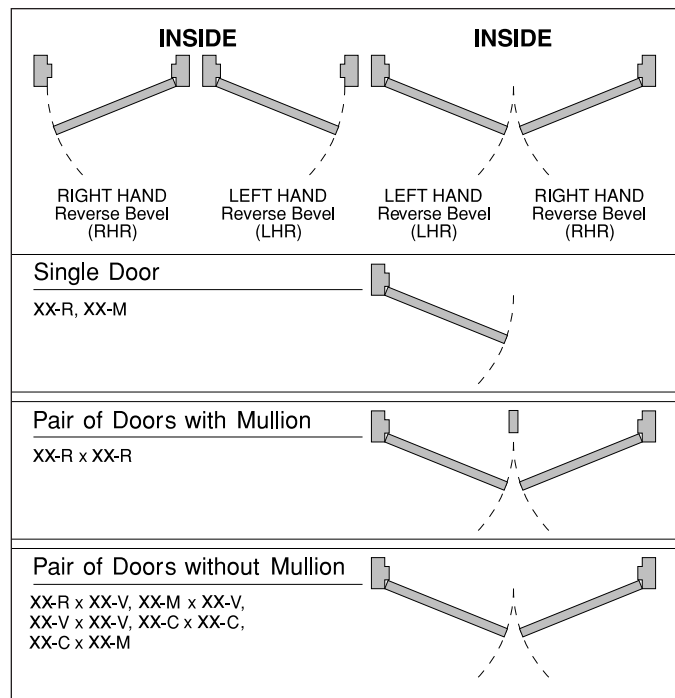
Monarch models F-XX-R, F-XX-V, F-XX-M, and F-XX-C are labeled for use as  fire exit hardware. UL and Warnock Hersey listed.

Door Thickness

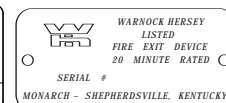
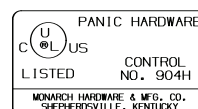
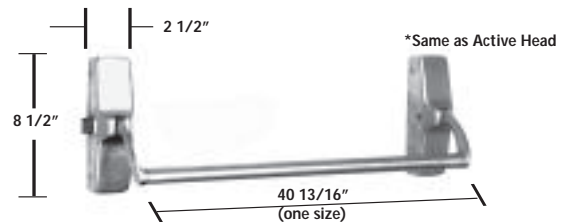
All devices and components supplied for 1 3/4" doors standard. Specify door thickness if other than 1 3/4".

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

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.

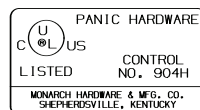


DEVICE	Length	Strike	Min. Stile	Door Opening Width
XX-R-EO	4'	565 Flush	3/4"	2'6" up to 3'10"
		565	3/4"	2'6" up to 3'11"
		F570/F490	4"	2'6" up to 4'0"
		579	3/2"	2'6" up to 3'10"

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, 3/8" 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

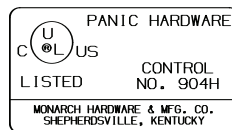
Panic Exit Hardware

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 1/4" 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

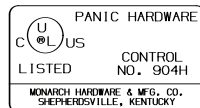
Panic Exit Hardware

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:	$\frac{3}{4}$ " throw.
Deadlocking Latchbolt:	Standard.
Dogging Feature:	$\frac{1}{2}$ 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:	$\frac{1}{4}$ " thick, wood or metal. Specify thickness if other than $\frac{1}{4}$ ".
Projection:	5" maximum, 4" dogged.
Stile:	$\frac{1}{2}$ " minimum.
Electric Function:	Can be interfaced with building security systems. Lock/unlock and security monitoring available. (See separate electrical brochure.)
Mounting Height:	40 $\frac{1}{4}$ " 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 $\frac{1}{4}$ " doors. Deadlocked when auxiliary bolt is depressed $\frac{3}{16}$ ".



REVERSIBLE MORTISE DEVICE F-XX-M SERIES

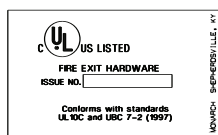
🔥 Fire Exit Hardware

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.



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 ⅜".



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

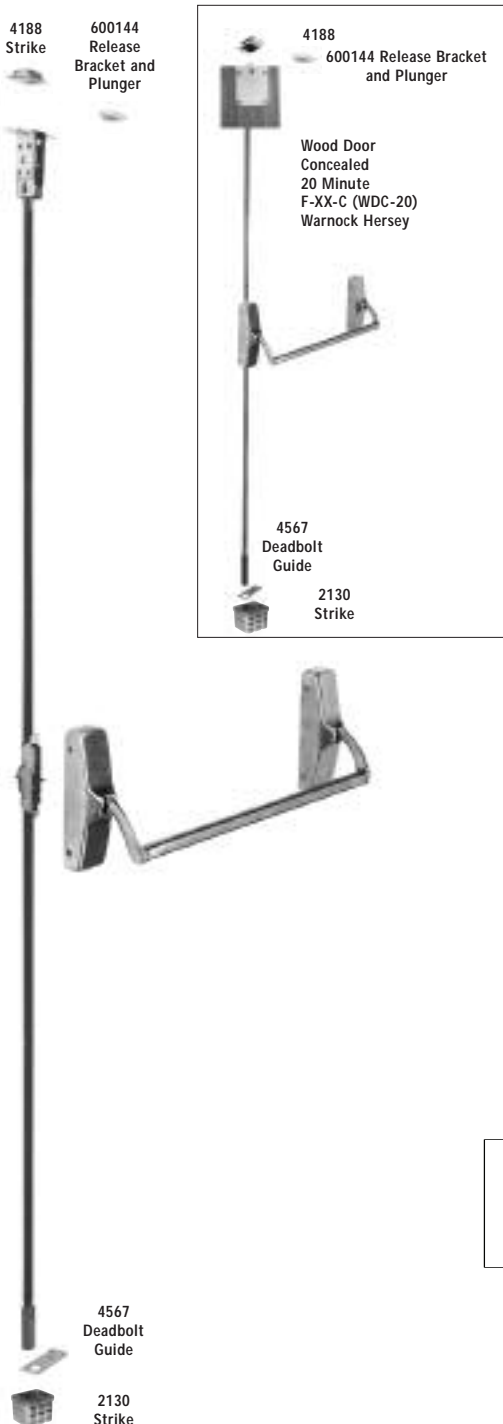
Hand:	Handed, specify when ordering.
Functions:	See Trim Selection Chart on pages 16 & 17. Delta trim only.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630).
Strikes:	4188 mortised top; 2130, 2126A and 4155 flush strike bottom.
Arms:	Forged brass, 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

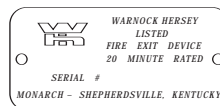
Fire Exit Hardware

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 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.





F-4023 Shown

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

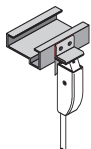




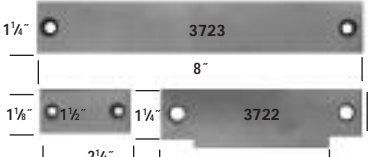
For (F) XX-R Rim Devices (center latching)

 <p>565 Adjustable surface mounted for use with blade or applied stops.</p>	 <p>F570/F490 Adjustable strike.</p>	 <p>571/571A Used on inactive leaf for device on active leaf of pair of doors without removable mullion. 571 keeps 2 1/4" backset. 571A is trimmer and projects less into opening.</p>	 <p>579 Semi-surface strike which allows use of XX-R on narrower stile widths as low as 3 1/2". Also used for low projection.</p>
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For All Mortise Lock Devices (F) XX-M

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

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

Surface Vertical Extension Rods

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

Concealed Extension Rods

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

TRIM DESIGNS

Vanguard (820)



820 TP 820 NL

Escutcheon: 2 5/8" x 16"
 Grip: 6 1/4" C-C
 Projection: 2 1/8"
 Brass, Bronze, Stainless Steel and Aluminum

Apollo (810)



810TP 810NL

Pull: 5 1/2" OC
 Escutcheon: 3 1/4" x 15"
 Projection: 2 1/4"
 Brass, Bronze, Stainless Steel and Aluminum

Athena (815)



815NL 815TP

Grip Overall: 9"
 Width: 1 1/8"
 Pull: 6 1/4" C-C
 Projection: 2 1/4"
 Brass, Bronze, Plated and Aluminum

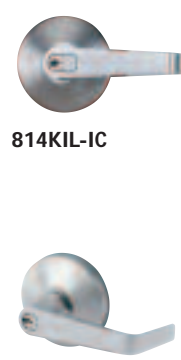
811K



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

Round Ball Knob
 Escutcheon: 2 5/8" x 9 1/2"
 Projection: 3 3/8"
 Brass, Bronze and Stainless Steel

Key-In-Lever (814)

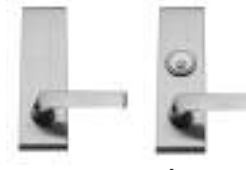


814KIL-IC

814KIL

812L

Dane



L/DT L

Projection: 2 3/16"

Dane



Projection: 2 3/16"

Sutro



Projection: 3 13/16"

Quantum



Projection: 3 1/2"


Avalon



Projection: 3 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 5/8" Escutcheon: 2 5/8" x 9 3/4" (Specify handing) Brass, Bronze and Stainless finishes.
 • Dane, Quantum and Sutro lever trim return to within 1/2" of door.

Delta (for 18 concealed only)



719TL 719TLP 718TP 718DT 718C 718NL

All Delta pulls: 6 1/4" C-C
 Projection: 2"
 719TP & 719DT: 13" overall length

717DT 711K 712L Control

Escutcheon: 7 1/4" x 1 3/4"
 Projection: 3 3/8"
 Knob: 2" round
 Brass, Bronze, Stainless Steel and Plated finishes

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

*Dane shown.

TL: 7 1/4" L x 1 3/4" W x 1 1/2" Projection (Specify handing)
 Brass, Bronze and Stainless Steel

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

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

DEVICE	Dane			Avalon			Sutro			Quantum		
	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

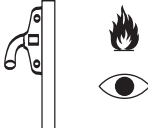
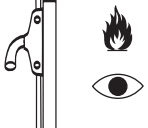
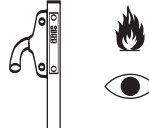
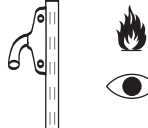
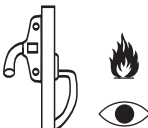

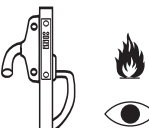
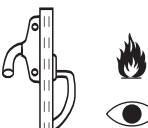
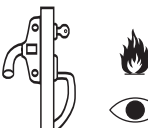

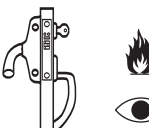




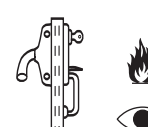



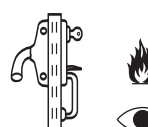


DEVICE	TL	TLP	TP	TP-BE	DT	NL	DT	K	K-BE	K/DT	C
XX-C	719	719	718	718	718	718	717	711	711	711	718

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.

	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
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-M-NL	Furnished Upon Request 
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 1/4" 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.

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