

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

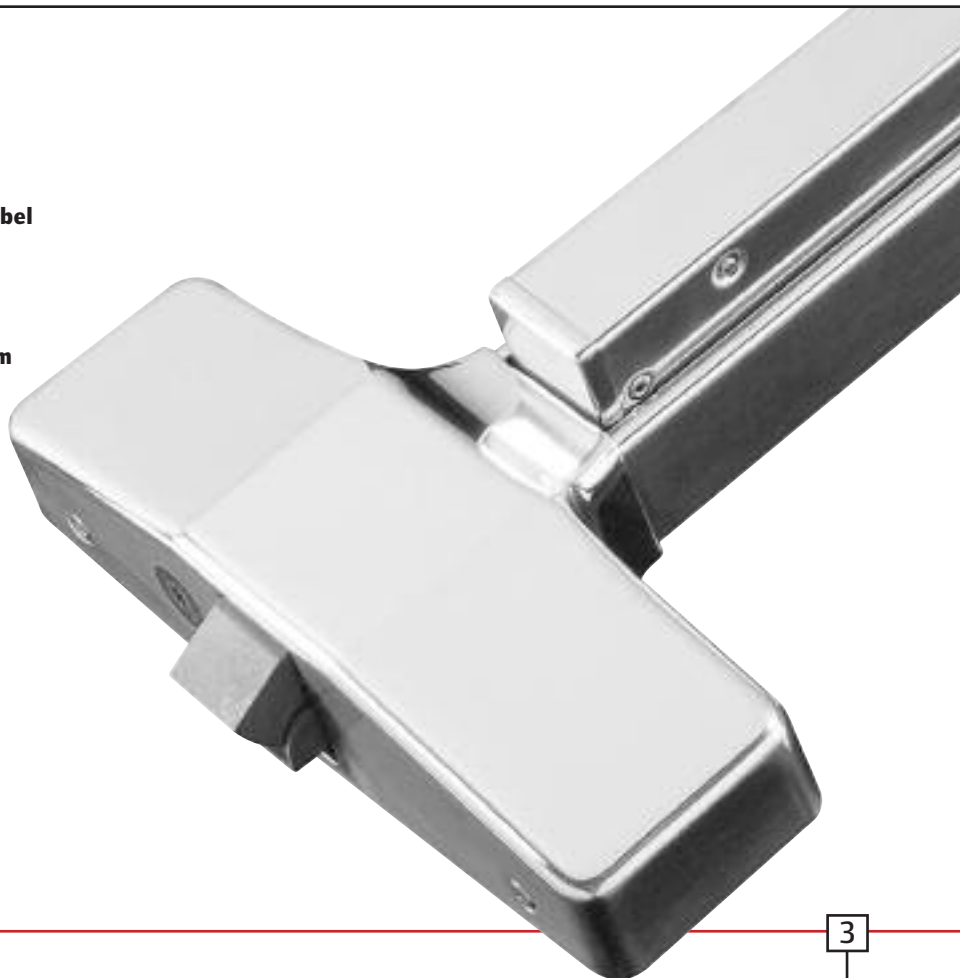
ANSI Grade 1 rating

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

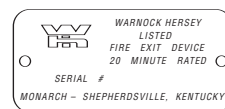
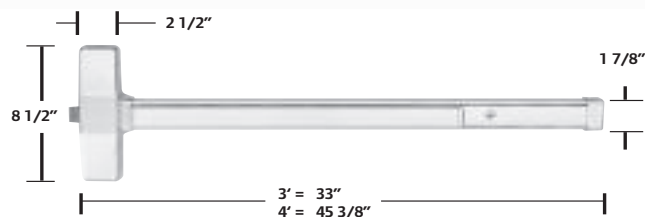
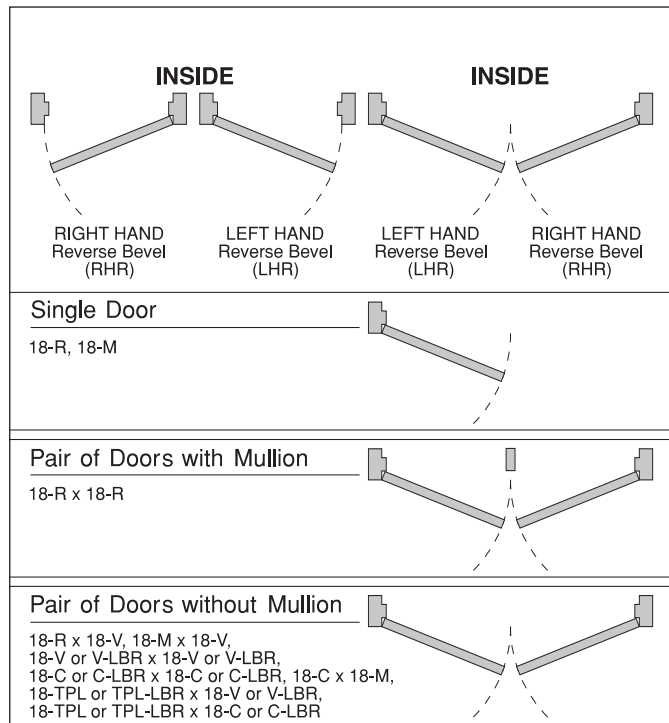
Monarch models F-18-R, F-18-M, F-18-C, F-18-V and F-18-TPL are labeled for use as  Fire Exit Hardware. UL and Warnock Hersey listed.

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

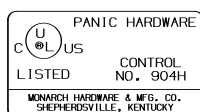
Panic Exit Hardware

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.

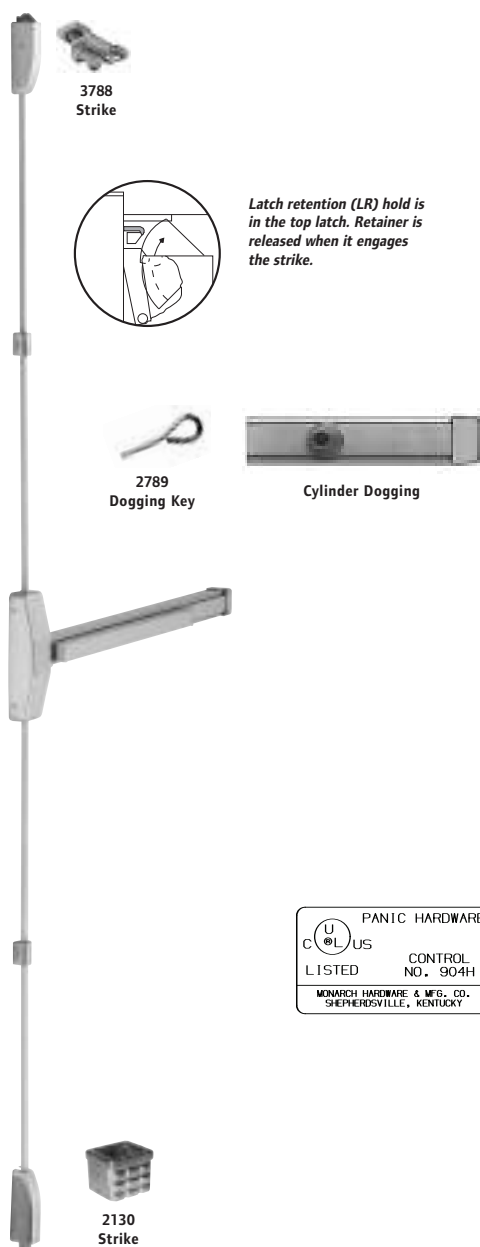
REVERSIBLE VERTICAL ROD DEVICE 18-V SERIES

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-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.
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

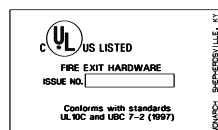
Fire Exit Hardware

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.

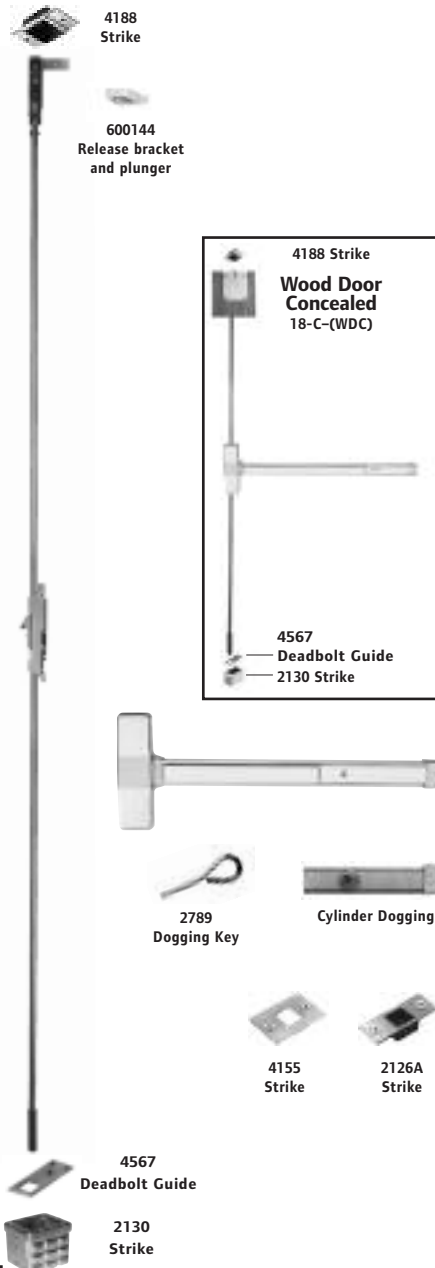
For electric dogging add 4½" to minimum door size.

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.

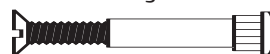
* 18-M Series devices using 811K or 812L trim require a 1 $\frac{1}{2}$ " cylinder

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

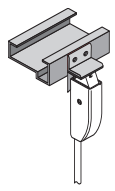
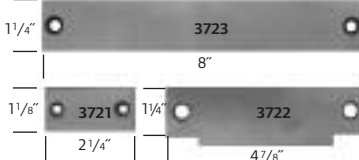
For (F) 18-R Rim Devices (center latching)

 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 $\frac{1}{4}$ "
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

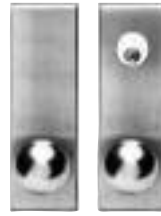
Athena (815)



815NL 815TP

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

811K



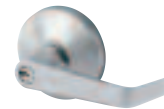
**811K-DT 811K
811K-BE**

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

Key-In-Lever (814)



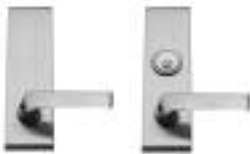
814KIL-IC



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



717DT



711K



712L Control

*Dane shown.

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.

Escutcheon: 7 $\frac{1}{4}$ " x 1 $\frac{3}{4}$ "
Projection: 3 $\frac{3}{4}$ "
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

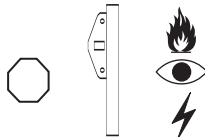
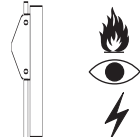
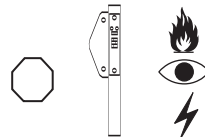
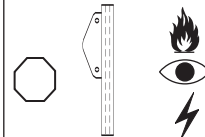
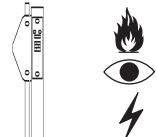
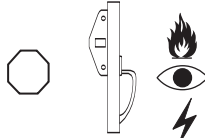
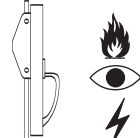
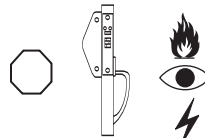
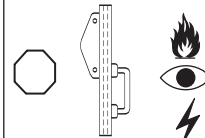
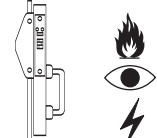
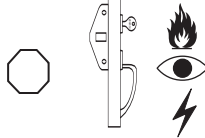
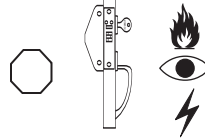
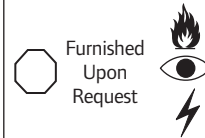
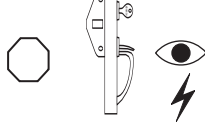
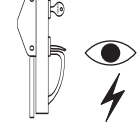
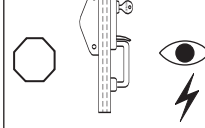
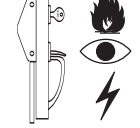
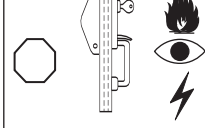
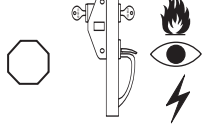
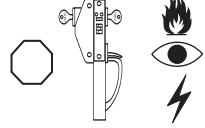
DEVICE	TL	TLP	TP	TP-BE	DT	NL	DT	K	K-BE	K/DT	C
18-C	719	719	718	718	718	718	717	711	711	711	718

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-EO	 18-V-EO	 18-M-EO	 18-C-EO	 18-TPL-EO
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-M-NL	Furnished Upon Request 	
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-M-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



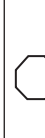
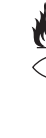
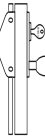
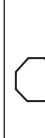
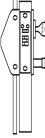
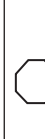
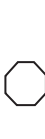
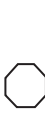
Delayed Egress

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.

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