



CAL-ROYAL

P R O D U C T S, I N C.



2200 & F2200 Rim Type Panic and Fire Exit Devices 2260 & F2260 Vertical Rod Panic and Fire Exit Devices ANSI A156.3, Grade 1



Lifetime
Warranty

BHMA
CERTIFIED

MEETS
The Buy American Act

Features & Construction

- ◆ Retrofits Sargent 12-2828 & 12-2838 Series
- ◆ ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- ◆ UL Listed for Panic and UL10C, UBC 7-2-1997 codes
- ◆ UL Listed for Fire Exit Hardware. 3 Hours
- ◆ Conforms & Meets ADA Regulations
- ◆ (A) label rating in pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- ◆ Uncompromising security and safety in single and double fire exit doors
- ◆ Chassis mounted unit construction
- ◆ Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch on rose trims. Escutcheon trims are rigid and covers 161 cut out

Suggested Architect's Specifications

- ◆ All exit devices shall be of touch bar design with smooth operation and be operative over $\frac{2}{3}$ of the door's clear opening width
- ◆ All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- ◆ All springs shall be of stainless steel throughout
- ◆ All exit devices shall be of chassis mounted unit construction
- ◆ All exit devices shall be ANSI A156.3, Grade 1

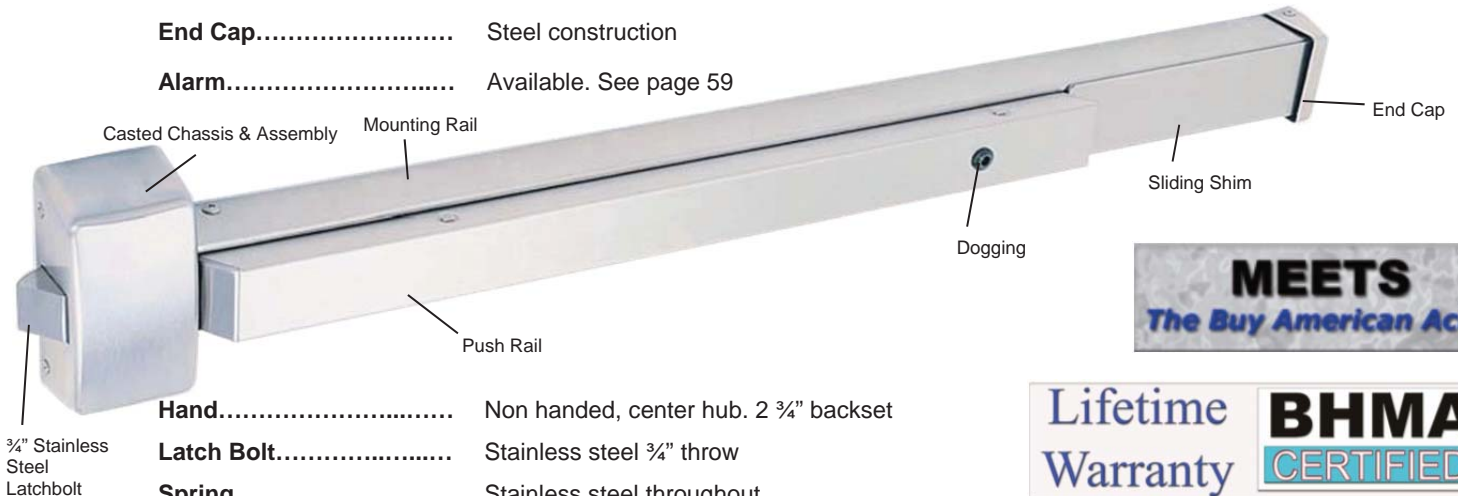


2200 & F2200 Series

Rim Type Exit Device

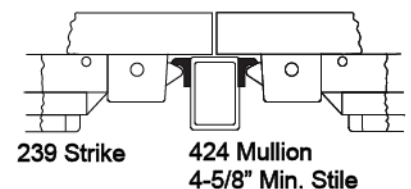
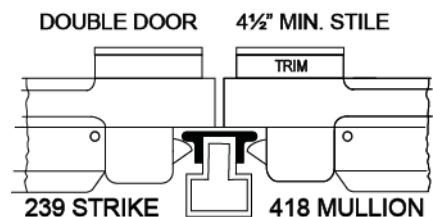


- For Doors** 1 3/4" thick standard optional 2 1/4" thick. 4 1/2" minimum stile width required for single or double door application using standard 239 strike and pull or lever trims
- Chassis**..... Nonferrous alloy (Panic Grade), steel (Fire Grade)
- Cover**..... Nonferrous alloy. Covers stock hollow metal doors with 161 cutout
- Mounting**..... Furnished standard with wood and machine screws. Available with thru bolts on request. Thru bolts are standard packaging on fire rated devices
- End Cap**..... Steel construction
- Alarm**..... Available. See page 59

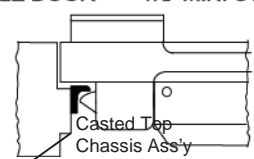


- Hand**..... Non handed, center hub. 2 3/4" backset
- Latch Bolt**..... Stainless steel 3/4" throw
- Spring**..... Stainless steel throughout
- ANSI Standard**..... A156.3, Grade 1
- Rail Assembly**..... Heavy gauge steel, painted
- Strike**..... 239 packed standard (See strike page)
- Dogging Feature**..... Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available
- Mullion**..... Available
- Electronic Functions**..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available
- UL and ULC Listed**..... 2200 Series for panic. F2200 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes
- Finish**..... Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold

Minimum Stile Requirements 4" escutcheon trims & 4 1/2" for Thumbpiece and rose trims



SINGLE DOOR 4 1/2" MIN. STILE



DIMENSIONS

Touchbar height to finised floor	41" (1034mm) at center		
Touchbar projection			
neutral	2 1/2" (64mm)		
depressed	1 3/4" (45mm)		
MODEL	ACTUAL SIZE	MAXIMUM CUT DOWN	DOOR SIZE
2200EO24 and F2200EO24	20"	2"	22" to 24" door width
2200EO32 and F2200EO32	28"	6"	26" to 32" door width
2200EO36 and F2200EO36	32"	6"	30" to 36" door width
2200EO48 and F2200EO48	44"	12"	36" to 48" door width

2260 & F2260 Series

Vertical Rod Type Exit Device

Casted Top Chassis Assembly

Top Rod

Top Rod Guide

Casted Main Chassis & Assembly

Mounting Rail

Push Rail

Bottom Rod

Bottom Rod Guide

Casted Bottom Rod Latch Assembly

Specifications

For Doors	1 3/4" thick standard optional 2 1/4" thick. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever trims available. 2 3/4" backset
Chassis	Nonferrous alloy (Panic Grade), steel (Fire Grade)
Cover	Nonferrous alloy. Covers stock hollow metal doors with 161 cutout
Mounting	Furnished standard with wood and machine screws. Thru bolts are standard packaging on fire rated devices
End Cap	Steel construction
Alarm	Available. Prefix "NALRM" before PART#

Sliding Shim

End Cap

Dogging



Hand	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
Latch Bolt, Spring	Stainless steel
ANSI Standard	A156.3, Grade 1
Rail Assembly	Heavy gauge steel, painted
Strike	See strike page
Dogging Feature	Allen-type key furnished standard on non-fire labeled devices
UL and ULC Listed	2260 Series for panic. F2260 Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes
Finish	Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold
Electronic Functions	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available



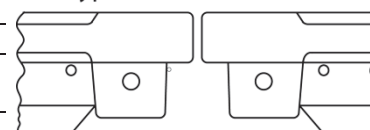
DIMENSIONS

Touchbar height to finished floor	41" (1034mm) at center
Touchbar projection	
neutral	2 1/2" (64mm)
depressed	1 3/4" (45mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100mm x 52mm x 42mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100mm x 68mm x 53mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100mm x 52mm x 42mm)
Top and bottom rod length for 36" x 84" doors	Top rod 39 3/16" (995mm), bottom rod 37 3/16" (945mm)
Top and bottom rod length for 48" x 96" doors	Top rod 51 3/16" (1300mm), bottom rod 37 3/16" (945mm)
Vertical Rods	1/2" (13mm) Round tubing

MODEL	ACTUAL SIZE	MAXIMUM CUT DOWN	DOOR SIZE
2260V3684, F2260V3684, 2290V3696 and F2290V3696	32"	6"	30" to 36" door width
2298V4896 and F2298V4896	44"	12"	36" to 48" door width

Minimum Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices



3-1/2" Min. Stile

LBR 2260 & F2260 Series

Vertical Rod Type Exit Device Less Bottom Rod - LBR

Casted Top
Chassis
Assembly

Top Rod

Top Rod
Guide

Casted Main
Chassis &
Assembly

Mounting Rail

Push Rail

Dogging

Sliding Shim

End Cap

Specifications

LBR.....	No Bottom Strike. Free access for wheel chairs, stretcher and carts therefore eliminates tripping potential and disfiguration of floors due to gragging of bottom bolts
For Doors.....	1 3/4" thick standard. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever trims available. 2 3/4" backset
Chassis.....	Nonferrous alloy (Panic Grade), steel (Fire Grade)
Cover.....	Nonferrous alloy. Covers stock hollow metal doors with 161 cutout
Mounting.....	Furnished standard with wood and machine screws. Thru bolts are standard packaging on fire rated devices
Alarm.....	Available. Prefix "NALRM" before PART#

End Cap..... Steel Construction

Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience

Latch Bolt, Spring..... Stainless steel

Auxiliary Spring Latch..... Auxiliary spring loaded latchbolt is installed in the lower edge of the door, when exposed to fire latchbolt releases keeping the door closed and regulated

ANSI Standard..... A156.3, Grade 1

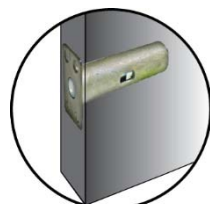
Rail Assembly..... Heavy gauge steel, painted

Strike..... See strike page

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

UL and ULC Listed..... All Series for panic. LBR Series for fire exit hardware for all types of 8' x 8' double doors including double egress for up to 3 hour metal, 1 1/2 hour wood doors fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes



Auxiliary
Fire Latch Assembly

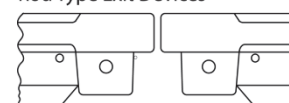
DIMENSIONS

Touchbar height to finished floor	41" (1034mm) at center
Touchbar projection	
neutral	2 1/2" (64mm)
depressed	1 3/4" (45mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100mm x 52mm x 42mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100mm x 68mm x 53mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100mm x 52mm x 42mm)
Top and bottom rod length for 36" x 84" doors	Top rod 39 3/16" (995mm)
Top and bottom rod length for 48" x 96" doors	Top rod 51 3/16" (1300mm)
Vertical Rods	1/2" (13mm) Round tubing

MODEL	ACTUAL SIZE	MAXIMUM CUT DOWN	DOOR SIZE
LBR2260V3684, LBRF2260V3684, LBR2290V3696 and LBRF2290V3696	32"	6"	30" to 36" door width
LBR2280V4896 and LBRF2280V4896	44"	12"	36" to 48" door width

Minimum Stile Requirements

Double Door with Two Vertical
Rod Type Exit Devices



3-1/2" Min. Stile

Alarm Exit Hardware



Features

- 1-, 3-, 5-minute and continuous alarm type settings available
- ON and OFF power switch
- Alarm sound frequency is 120 db
- Alarm unit has an internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and breached
- The key switch to turn alarm off is a standard 1 ¼" cylinder with "C" keyway. The alarm operates on one standard 9 volt transistor battery. When battery is weak the horn will emit an intermittent signal.
- Alarmed units are supplied with a micro switch, which monitors the push rail and the latch bolt for foolproof security on rim devices
- Alarm unit has a signal OC output that can be linked to external alarm control systems
- Easy removal of the alarm unit without the need to dismount the exit device for battery maintenance
- Unit includes "EMERGENCY EXIT ONLY • ALARM WILL SOUND" decal for application on door or unit

Rim Type Exit Devices

NALRM 2200 EO36 Alarm rim type 36" door (panic grade)

NALRM 2220 EO48 Alarm rim type 48" door (panic grade)

FNALRM 2200 EO36 Alarm rim type 36" door (fire grade)

FNALRM 2220 EO48 Alarm rim type 48" door (fire grade)

Vertical Rod Type Exit Devices

Prefix "**NALRM**" before PART#.

Power Supplies

Power supplies for electrified exit devices are available.

See page 65.

Trim Selection

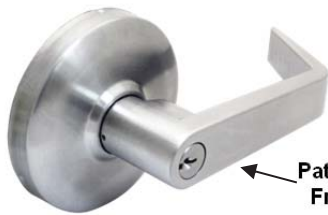


LEVER DESIGN

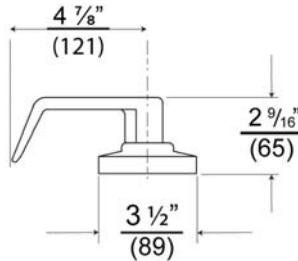
Non-handed Grade 1 (Clutch Style)

Cylindrical body hardened steel heavy duty tailpiece. For 1 3/4" and 2 1/4" doors. Prefix THI before PART# for 2 1/4" door thickness. Available for fire and non-fire rated rim and vertical rod exit devices. Rose diameter 3 1/2", lever length 4 3/4". Fits and covers 161 cutout.

Finishes: Architectural plated finishes.



Patented Clutch Freewheeling



ENT00L or

ICENT00L or

ICSCENT00L4

SARICENT00L (Sargent)

RUSICENT00L (Corbin/Russwin)

YALICENT00L (Yale)

8000K

ENTRANCE

Key locks and unlocks lever.

Operates as CLASSROOM FUNCTION.

ANSI Function – 08

Ball Knob Keylock

STOREROOM

Key operates lever, otherwise always locked.

ANSI Function – 04

STR05L or

ICSTR05L or

ICSCSTR05L4

SARICSTR05L (Sargent)

RUSICSTR05L (Corbin/Russwin)

YALICSTR05L (Yale)

PAS30L

PASSAGE

Trim always operable and free.

ANSI Function - 15

DUM40L

DUMMY

Dummy trim. One sided

ANSI Function – 10

When ordering "AT" and "SPA" designs, prefix design name before PART#. Example: ENT00L in "AT" is **ATENT00L**.

KEYWAY: 6 pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa and Kaba High Security Cylinders.

(IC) INTERCHANGEABLE CORE

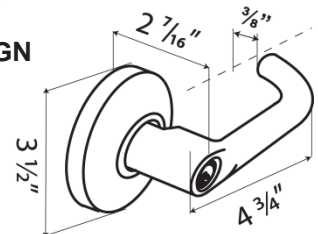
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

(ICSC) INTERCHANGEABLE CORE: Indicates function available with **Schlage Full size format** Interchangeable Core.

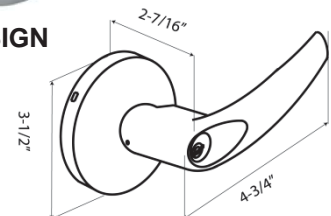
Other Lever Trim Designs



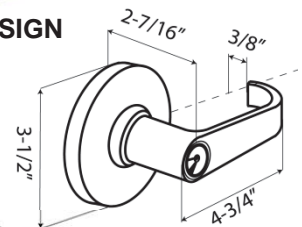
TUB DESIGN



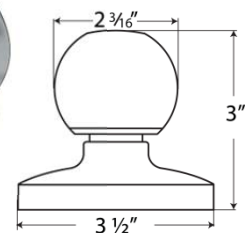
AT DESIGN



SPA DESIGN



8000K



Trim Selection



ESCUTCHEON LEVER DESIGN

CONSTRUCTION

- Grade 1, thrubolted design, rigid non-clutch, Non handed design.
- Easily field reversible.
- Hardened steel heavy duty tailpiece. Available for fire and non-fire rated rim and vertical rod exit devices.

FINISHES

- Powder coated aluminum (alum)
- Powder coated dark bronze duranodic (duro)
- Powder coated gold

DOOR THICKNESS



Standard 1 3/4". For 2 1/4" thick door use additional PART# TAIL3.

ESCUTCHEON DIMENSIONS

2 3/4" width X 8 3/4" length. Lever length: 4 3/4".



Fits and covers 2 1/8" 161 cutout



NESC2200 or
 **ICNESC2200 or**
 **ICSCNESC2200**

ENTRANCE

Rigid Entrance, key locks or unlocks escutcheon trim.
 ANSI FUNCTION (63) Operates as classroom function

NESC2205 or
 **ICNESC2205 or**
 **ICSCNESC2205**

STOREROOM

Rigid Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked ANSI FUNCTION (04)

NESC2230

PASSAGE

Trim always operable and free
 ANSI FUNCTION (62)

NESC2240

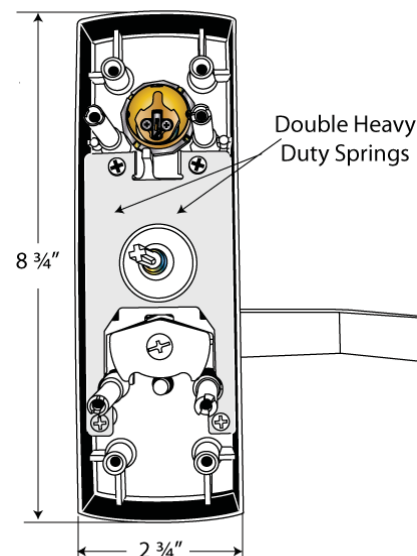
DUMMY

Dummy Escutcheon trim ANSI FUNCTION (10)

KEYWAY: 6 pin solid brass "C" keyway Mortise Cylinder standard.
 Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa and Kaba High Security Cylinders.

 **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

 **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with Schlage Full size format Interchangeable Core.



FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 63

Trim Selection

PULL DESIGN

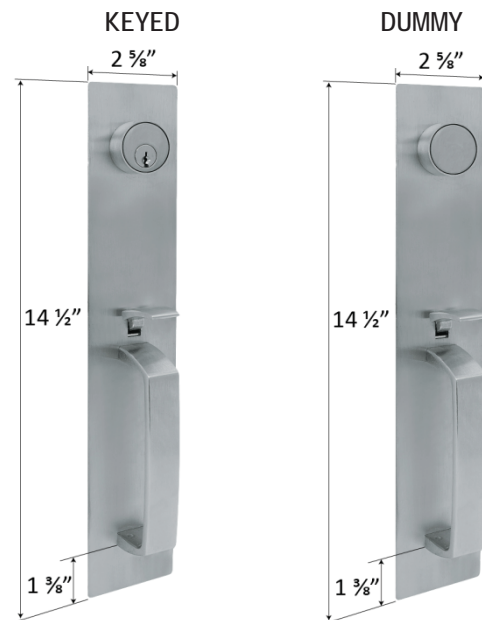


<p>2200PULNL IC2200PULNL ICSC2200PULNL</p> <p>FOR RIM DEVICES ONLY Outside by pull and key. Key retracts latch bolt. ANSI function - 03. Covers 161 cutout. Standard Rim Cylinder available in "C" 6 pin & optional Kwikset KW keyways.</p>	<p>2200 NL IC2200NL ICSC2200NL</p> <p>FOR RIM DEVICES ONLY Outside by pull and key. Key retracts latch bolt. ANSI function - 03. Covers 161 cutout. Standard Rim Cylinder available in "C" 6 pin & optional Kwikset KW keyways.</p>	<p>2200DTP</p> <p>Outside by pull only. Pull when dogged. ANSI function - 02 Covers 161 cutout.</p>	<p>2200EOP</p> <p>Outside by plate only. ANSI function - 10 Covers 161 cutout.</p>	<p>8000K ENTRANCE</p> <p>Key locks and unlocks knob. Operates as classroom function. ANSI Function - 08</p>
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THUMBPIECE TRIM

(OPERATES ON RIM & VERTICAL ROD DEVICES)

THP00 or ICTHP00 ICSCTHP00	ENTRANCE Key locks or unlocks thumbpiece. (Operates as classroom function) ANSI Function - 63
THP05 or ICTHP05 ICSCTHP05	STOREROOM Key unlocks thumbpiece, thumbpiece retracts latch bolt, otherwise always locked. ANSI Function-04
THP30	PASSAGE Trim always operable and free. ANSI Function - 63
THP40	DUMMY Dummy trim. Includes blank Mortise dummy cylinder. ANSI function - 10



FINISHES

Powder coated Aluminum, Dark Bronze (DURO), Gold for PULL and THUMBPIECE TRIMS.

US32D,3,10B for 8000K knob trim.

KEYWAY: 6 pin solid brass "C" keyway Mortise Cylinder for Thumbpiece trims and standard key-in-knob cylinder for knob trim. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa and Kaba High Security Cylinders.

(IC) INTERCHANGEABLE CORE: Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

(ICSC) INTERCHANGEABLE CORE: Indicates function available with **Schlage Full size format** Interchangeable Core.

DOOR THICKNESS

Standard 1 3/4". For 2 1/4" thick door use additional PART# TAIL 7.

Electrified Lever Trim

Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities while incorporating the patented clutch trim design. The 24V DC solenoid can be energized from a distant controller, thus allowing access control of the opening.

The control of stairwells in high-rise buildings is a common application for this trim, where electric pullback of the exit device's latch bolt is cost prohibitive or not required. This is especially practical in applications where fire/life safety codes require a "fail-safe" condition which is not an option with electrified latch pullback devices. Because the current draw is quite low there is no need for a more expensive power supply to provide the surge current.



Features

- Continuous duty solenoids used to insure trouble-free operation
- Internally mounted solenoid to ease installation (no special door prep required)
- No hassle 3-Year Warranty
- Requires additional door prep

Options

- Available Fail Safe (electrically locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC/DC)
- Request to Enter Switch (REE) available
- CRU2 – Current Reduction Unit to improve solenoid life in "continuously on" applications

Specifications

Solenoid.....Continuous Duty 24VDC

Operating Voltage....12 or 24VAC/DC + OR – 10% (must specify 12 or 24 volts when ordering)

Amperage.....260mA@12V / 160mA@24V

Coil Resistance.....12V=49Ω / 24V=159Ω

To order, Specify:

OPTIONS: FAIL SAFE (**FS**)
FAIL SECURE (**FSE**)

ITEM#	DESCRIPTION
FS12 ESC22	FS12 FAIL-SAFE OPTION 12V AC/DC
FS24 ESC22	FS24 FAIL-SAFE OPTION 24V AC/DC
FSE12 ESC22	FSE12 FAIL-SECURE OPTION 12V AC/DC
FSE24 ESC22	FSE24 FAIL-SECURE OPTION 24V AC/DC

(ELR) Electrical Latch Retraction



Our electrified latch pullback exit device allows for remote keyless access control in high occupancy/high traffic conditions where exit devices are required. Common applications include conditions such as hospitals, airports, schools, churches and they are commonly specified in applications that require automatic door openers. The device may be continuously energized allowing for a push/pull condition if desired.

Features:

- Available on 2200 Series, including rim, vertical rod, concealed vertical rod, fire and non-fire-rated devices.
- High-performance quality solenoids designed for demanding applications
- The PM200* interface power module (included) is programmed to meet the requirements of the specific exit device modification. It maximizes the efficiency and life of the solenoid, allows for a much longer wire run and may be used with 24VDC power supplies rated at 1.5A or greater
- Dual coil solenoids, or PWM programming, allow for either momentary or extended time latch retraction
- No hassle 3-Year Warranty

Specifications

- Voltage – 24VDC
- Amperage – Surge current – 12A for 200ms@24V / Holding – 250mA@24V
- Coil resistance – 3.7 Ω

To order, specify:

- Prefix **ELR** before PART#

Signal Switch RX and LX

RX (request to exit) signal switch is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar.

LX (latch bolt monitoring) signal switch monitors both egress and access of an opening. When the latch bolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latch bolt position.

LX and **RX** switches can be combined.

LX, RX switches can be used in combination with **EL** (electric latch retraction) option.

Specifications

RX or **LX**.....Switch rated 0.5 amps @ 24VAC/DC resistive

Low current **RX** or **LX**.Switch rated 0.5 amps @ 24VAC/DC resistive

For Factory Installed:

To Order, Specify:

Prefix: - **RX**.....Request to Exit switch for field installation
LX.....Latch bolt Monitoring switch for field installation
LXRX.....Latch bolt Monitoring/Request to Exit Combination

KABA® - Cal-Royal Combination

Cal-Royal's Exit hardware devices combined with Kaba InSync CP provide a variety of alternatives when addressing community access control. Recommended for applications such as controlling building entry openings, common area rooms and doors with exit devices. InSync CP are available as stand-alone battery operated door locks designed to work in conjunction with *Cal-Royal's Exit Hardware Devices*.

For inquiries and information on InSync line of products
please visit www.kabamultihousina.com



POWER SUPPLIES FOR ELECTRIFIED EXIT DEVICES



The CRPS1N is a heavy duty, high quality, low cost solution for powering a single latch retracting exit device. The solid state design insures years of trouble-free operation. The power supply delivers raw, unregulated DC current which is ideal for the extreme in-rush requirement of most solenoid driven electric latch retracting exit devices. The power supply comes housed in a sturdy, yet compact metal enclosure.

CRPS1N



Features:

- Power supply delivers the necessary high current in-rush for a single exit device
- Solid-state design eliminates problems associated with mechanical relays
- Single input/output

Specifications:

- Input voltage – 120 VAC
- Output voltage – 24 VDC unregulated @ 1A
- Temperature range – 0 to 120F
- 1 Solid-State input/output (input triggered by dry contact)
- LEDs – RED = Power indicator
GREEN = Channel on
- Enclosure dimensions: 10" x 10" x 4"

The CRPS2 Series power supplies are high quality, cost effective solution for powering two electric latch-retracting exit devices. These power supplies provide the necessary surge current that most latch-retracting exit devices require. The CRPS2 Series offers features found on power supplies costing much more; and the solid-state design and careful attention to detail make the CRPS2 Series ideal choice for the discerning user who requires a power supply that can offer years of trouble-free operation.

CRPS2 CRPS2BB



Features:

- Delivers the necessary in-rush current to power two latch pullback exit devices.
- Two independent inputs/outputs
- Solid-state design eliminates mechanical problems associated with relays
- Thermal overload sensing reduces risk of failure due to overheating
- Fire alarm disconnect link
- Inputs triggered by dry contact
- Intelligent short circuit detection detects shorts much faster than fuses and isolates the short to the individual output
- Removable Euro-style terminal blocks allow for easy installation
- UL Pending at time of print
- No hassle 3-Year Warranty

Additional Features (CRPS2BB Only):

- Efficient battery backup/charging circuitry with zero voltage drop at power loss
- Solid state reverse polarity protection for battery connections
- Audible alert when sensing AC power failure & low battery (batteries not included)
- Output Voltage – 24 VDC unregulated @ 2.3A
- Enclosure dimensions: 12.5" x 15" x 4"

Specifications:

- Input Voltage – 120 VAC
- Output Voltage – 24 VDC unregulated @ 2A**
- Temperature Range – 0 to 120 F
- 1 Solid-State input/output (input triggered by dry contact)
- LEDs – Red = Power indicator
GREEN = Channel on
- Enclosure dimensions: 10" x 10" x 4" **

**CRPS2 only

The CRSW3 power supply is a low cost, regulated switching power supply. It is designed specifically to supply power to low current DC devices such as mortise locks, cylindrical locks and electric strikes. The CRSW3 supplies 2.4A @ 27VDC and provides (3) non-fused outputs. The CRSW3 comes housed in a 10" x 10" x 4" sturdy metal enclosure.

CRSW3



Features:

- Adjustable output voltage (22-27V under load)
- No hassle 3-Year Warranty

Specifications:

- Input voltage – 110 or 240VAC
- Output voltage – 2.4A @ 27VDC
- (3) Non-fused outputs
- Enclosure dimensions : 10" x 10" x 4"

Strikes & Accessories

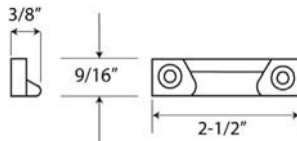


Strikes for use with 2260 vertical rod exit device

All strikes are black nylon coated

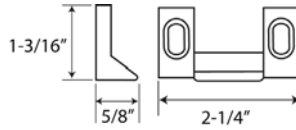
221

Standard for 2260.
Applied to surface of floor or to a flat threshold.
Standard packaging.



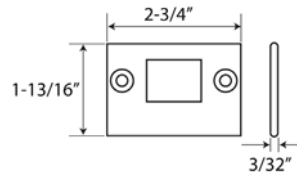
227

Applied to surface of stop.
No mortise required.
Standard packaging.



233

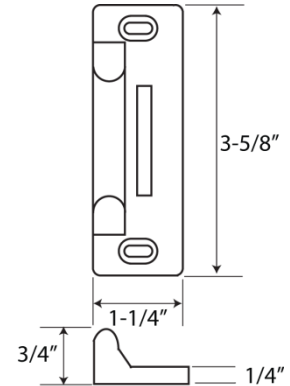
Bottom strike. Alternate bottom strike. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.



Strikes for use with 2200 rim type exit device

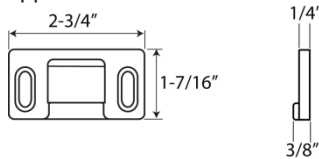
239

For 2200 & F2200 surface applied.
Standard packaging



RIM238

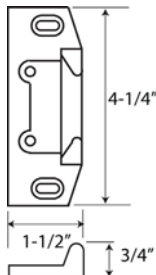
Strike for 2 3/8" Backset Application



Strikes for use with F2260 vertical rod fire rated exit device

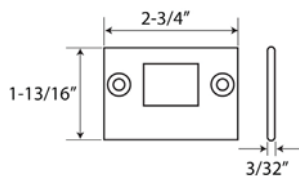
245

Surface applied for F2260.
Standard packaging.



233

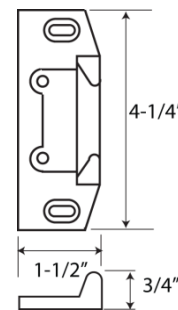
Bottom strike for F2260.
Flush mounting stainless steel.
Furnished with expansion shields.
Requires mortise in the floor.
Standard packaging.



Strike for use with F2200 rim fire exit device

245

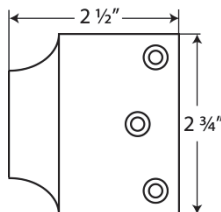
For F2200 surface applied.
Standard packaging.



Overlapping Strikes

N251

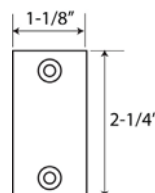
Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion



Additional Accessories

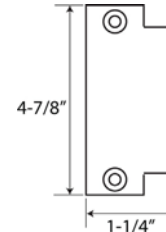
LFF

Lock front filler



SF

Strike filler

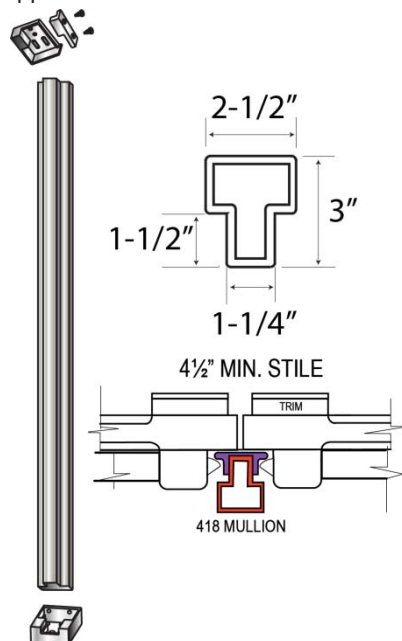


Accessories



MULLIONS

418 – Removable mullion Aluminum painted (Prime coat) includes top and bottom retainer supplied as a stock 96" for non-fire rated applications.



Electric lockable mullions are available on request.

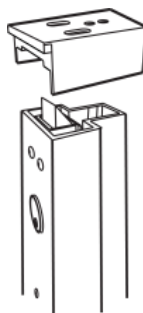
Additional Rods

Vertical Rods for 10 feet high doors available on non-fire rated vertical rod devices only.
Use PART# **VRRD-10**

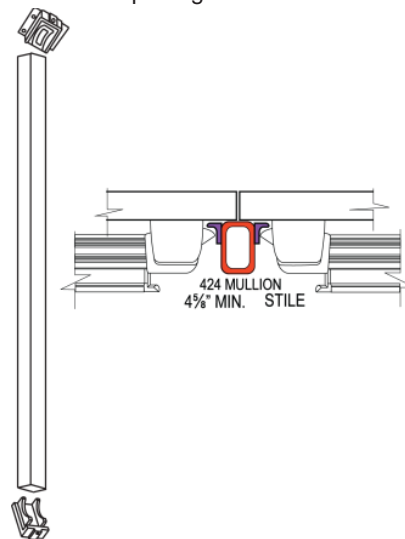
LCK418 – Lockable Removable mullion Aluminum painted (Prime coat) includes top and bottom retainer supplied as a stock 96" for non-fire rated applications.

ICLCK418 - Interchangeable core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

ICSC LCK418 - Indicates function available with **Schlage Full size format** Interchangeable Core.



424 – Fire exit mullion. 2" x 3" steel tubing round corner, iron construction with iron top and bottom retainers. To be used with two rim type devices on two independent active doors with full double door openings.

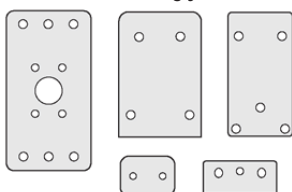


KEYWAYS: 6 pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa and Kaba High Security Cylinders.

GLASS BEAD SHIM KITS

- 401 – For rim type, 1/8" thick
- 406 – For vertical type, 1/8" thick
- 412 – For fire rated type, 1/8" thick

When exit devices are used with shim kits with outside trim, spindle length thumbpiece and thru bolt length must be increased accordingly.



CYLINDER DOGGING KITS

TO ORDER: Prefix "CD" before PART#. Available for all 2200 Series devices except fire exit hardware. Cylinder dogging with mortise cylinder is located on the mounting insert lock bolt in retracted position.

To order **KIT ONLY:** use PART# 36CD2200 for 36" and 48CD2200 for 48" devices. Specify finish.

STANDARD HEX DOGGING KIT

(For non-rated Panic Bar)

PART# **DOGGINGKIT** (2200 Series)



Fire Exit Hardware Selector



FIRE EXIT HARDWARE			UL DOOR RATING
APPLICATION	MODEL #	MAXIMUM DOOR OPENING	(A) 3 HOUR
SINGLE DOORS Rim type	F2200EO36 F2220EO48	4'0" X 8'0"	✓
PAIRS OF DOORS Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix LBR before PART# a) Swinging in same direction b) Swinging in opposite direction (double egress)	F2260V3684 X F2260V3684	8'0" X 7'2"	✓
	F2290V3696 X F2290V3696 F2280V4896 X F2280V4896	8'0" X 8'0"	✓
PAIRS OF DOORS Two rim type with Mullion	F2200EO36 F2220EO48	8'0" X 8'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

HOW TO ORDER INFORMATION

Exit device model number

Panic grade

2200 EO36 Rim type 36" door
2220 EO48 Rim type 48" door
2260 V3684 Vertical rod type 36" x 84"
2290 V3696 Vertical rod type 36" x 96"
2280 V4896 Vertical rod type 48" x 96"
VRRD10 – Rod for 10' non-rated door

Fire grade

F2200 EO36 Rim type 36" door
F2220 EO48 Rim type 48" door
F2260 V3684 Vertical rod type 36" x 84"
F2290 V3696 Vertical rod type 36" x 96"
F2280 V4896 Vertical rod type 48" x 96"

- 1) Specify exit device model number according to size of door.
- 2) Specify trim selection. For interchangeable core prefix "IC" before PART#.
- 3) For vertical rod devices specify LHR (Left Hand Reverse) or RHR (Right Hand Reverse) for convenience easily field reversible, otherwise shipped as LHR.
- 4) Specify finish:
Alum - Powder coated to match US26D
Duro - Powder coated to match US10B
Gold - Powder coated to match US4, US3
- 5) On thru bolt applications, fire rated vertical rod devices are packed with thru bolts as standard feature. Thru bolts are also available for other devices. To order thru bolts add "SBN" to trim pack.

When ordering separately use following PART#

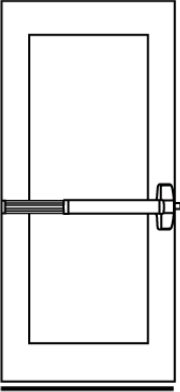
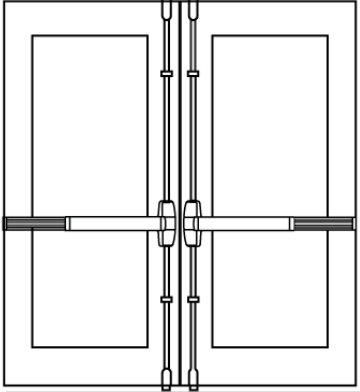
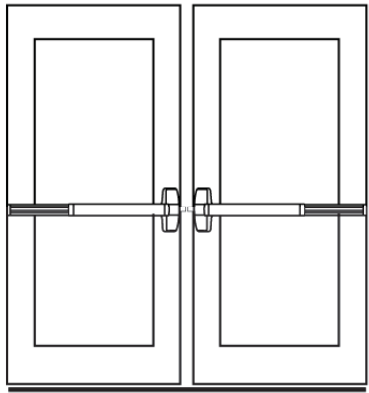
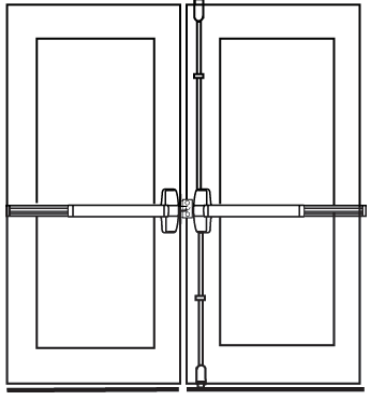
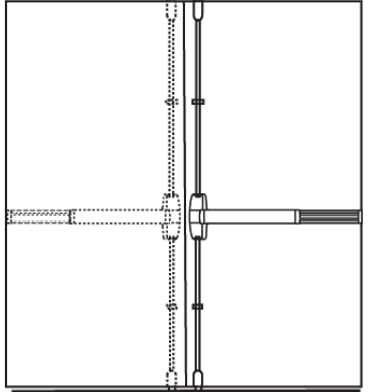
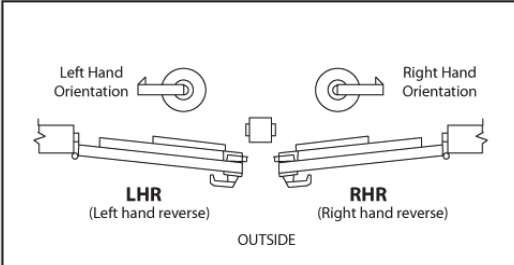
Cal-Royal PART# 357 — Thru bolts for rim devices, 6 PCs / pack.
Cal-Royal PART# 369 — Thru bolts for vertical rod devices, 14 PCs / pack.
Cal-Royal PART# 363 — Thru bolts for rim devices, 6 PCs / pack for 2 ¼" thick doors.
Cal-Royal PART# 375 — Thru bolts for vertical rod devices, 14 PCs / pack for 2 ¼" thick doors.

Ordering example: 2200EO36 ALUM X SBN X ENT00L 26D
F2280V4896 DURO X ICSTR05L 10B

2200 & F2200 Rim Type and Fire Exit Devices 2260 & F2260 Vertical Rod and Fire Exit Devices ANSI A156.3 Grade 1



Selector Chart

<p>SINGLE DOOR</p>  <p>Vertical rod type or Rim type Surface applied 2 point lock. Surface application.</p>	<p>PAIR OF DOORS WITHOUT MULLION</p>  <p>2 Vertical rod type Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.</p>
<p>PAIR OF DOORS WITH MULLION</p>  <p>2 Rim type with mullion Two independent active doors with full double door openings when required. Same direction.</p>	<p>PAIR OF DOORS WITHOUT MULLION</p>  <p>1 Vertical rod and 1 rim type Both devices are surface applied. A coordinator and overlapping strike is recommended.</p>
<p>PAIR OF DOORS WITHOUT MULLION</p>  <p>2 Vertical rod type Double egress surface applied. 2 point locking both doors opposite directions.</p>	<p>HANDING</p>  <p>CAL-ROYAL PRODUCTS, INC. 6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A. TEL: (323) 888-6601 FAX: (323) 888-6699 Website: cal-royal.com * Email: sales@cal-royal.com</p>

EXIT DEVICES COMPARISON CHART

RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD
ARROW	S1200	S1100	S3800	S3700
CAL-ROYAL	2200	2260	9800	9860
CORBIN/RUSSWIN	ED8200	ED8400	ED5400	ED4750
DORMA	8300	8400	9300	9400
PRECISION	5100	5200	2100	2200
SARGENT	2828	2727	8800	8700
VON DUPRIN	22	2227	98	9827
YALE	2100	2110	7100	7110

RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD
ARROW	---	---	1800	---
CAL-ROYAL	7700	7760	4400	---
CORBIN/RUSSWIN	---	---	ED6000	---
DETEX	---	---	---	---
DORMA	---	---	---	---
PRECISION	---	---	100	200
SARGENT	---	---	9898	---
VON DUPRIN	99	9927	---	---
YALE	---	---	1500	1510



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