7700 & F7700 Rim Type Panic And Fire Exit Devices
7760 & F7760 Vertical Rod Panic And Fire Exit Devices
ANSI A156.3, Grade 1

Features & Construction

♦ Retrofits Von Duprin 99 & 98 Series using 7700 Escutcheon Trim

♦ For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement

♦ ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs

♦ Rail assemblies are heavy duty extruded aluminum body with Stainless Steel push pad and end caps are made of brass, bronze or stainless steel. Rail travels in direction of the door swing

♦ Trims are thru-bolted for additional security

♦ Conforms & Meets ADA Regulations

Suggested Architect’s Specifications

♦ All exit devices shall be of touch bar design with smooth operation and be operative over ⅔ 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

♦ UL Listed for Panic and ULC10C, UBC 7-2-1997 codes

♦ UL Listed for Fire Exit Hardware. 3 hours

♦ (A) label rating on 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. Rim and vertical rod devices are non-handed and easily reversible

♦ 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

♦ 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
Specifications

For Doors .................................
1 ¾” thick standard optional 2 ¼” thick. 4 ½” minimum stile width for single or double door application using standard 938 strike and pull lever, thumbpiece and escutcheon trims.
2 ¾” backset

Chassis ......................................
Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Cover ........................................
Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out

Mounting .................................
Furnished with wood and machine screws. Available thru-bolts on request. Thru-bolts are included and standard packaging on fire rated devices

End Cap ....................................
Brass, Bronze or Stainless Steel construction

Alarm ........................................
Available. Prefix “NALRM” before MODEL #

Hand ........................................
Non-handed, center hub for 2 ¾” backset

Latch Bolt .................................
Stainless Steel ¾” throw with anti-pick feature

Spring ......................................
Stainless Steel throughout

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

Rail Assembly .............................
Heavy gauge extruded aluminum body with Stainless Steel push pad

Strike ..........................
938 packed standard (See strike page)

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

Mullion ....................................
Available

UL and ULC Listed ............
7700 Series for panic. F7700 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 ......................................
Architectural plated finishes

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

DIMENSIONS

Touchbar height to finished floor 41” (1041 mm) at center

Touchbar projection

Neutral 3 ¼” (92 mm)
Depressed 2 ¾” (73 mm)

Center case 8 ¾” x 2 ¾” x 2 ½” (205 mm x 70 mm x 63 mm)

MODEL ACTUAL LENGTH MAX CUT DOWN DOOR SIZE
7700EO36 and F7700EO36 32” 6” 30” to 36” door width
7720EO48 and F7720EO48 44” 10” 38” to 48” door width

(800) 876-9258 | www.cal-royal.com | OCT 2017
7760V & F7760V Series
GRADE 1 Vertical Rod Type Exit Device

Specifications

For Doors............................ 1 ¾” thick standard optional 2 ¼” thick. 3 ½” minimum stile width required for single door application. 3 ½” minimum stile width required for double door application. Lever, thumb piece and escutcheon trims available. 2 ¾” backset

Top & Bottom Chassis........ Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Cover................................ Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out.

Mounting............................ Furnished with wood and machine screws. Thru-bolts are included and standard packaging on fire rated devices.

End Cap................................ Brass, Bronze or Stainless Steel construction

Alarm................................. Available. Prefix “NALRM” before MODEL #

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

Latch Bolt & Spring............ Stainless Steel

Spring................................. Stainless Steel throughout

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

Rail Assembly...................... Heavy gauge extruded aluminum body with Stainless Steel push pad

Strike................................. See strike page

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

UL and ULC Listed............ 7760 Series for panic, F7760 Series for fire exit hardware for all types of 8’ x 10’ double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes

Finish............................... Architectural plated finishes

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

DIMENSIONS

Touch bar height to finished floor 41” (1041 mm) at center

Touch bar projection
   Neutral 3 ¾” (92 mm)
   Depressed 2 ¾” (73 mm)

Center case 8 ⅞” x 2 ¼” x 2 ½” (205 mm x 68 mm x 62 mm)

Panic grade top & bottom latch case 3 ¾” x 2 ¼” x 1 ½” (100 mm x 52 mm x 42 mm)

Fire grade top latch case 3 ¾” x 2 ⅜” x 2 ¾” (100 mm x 68 mm x 53 mm)

Fire grade bottom latch case 3 ¾” x 2 ¼” x 1 ½” (100 mm x 52 mm x 42 mm)

Top and bottom rod length for 36” x 84” doors Top rod 37 ½” (955 mm), bottom rod 35 ⅝” (905 mm)

Top and bottom rod length for 48” x 96” doors Top rod 49 ⅝” (1260 mm), bottom rod 35 ⅝” (905 mm)

Vertical Rods ½” (13 mm) Round tubing

MODEL | ACTUAL SIZE | MAXIMUM CUT DOWN | DOOR SIZE
--- | --- | --- | ---
7760V3684, F7760V3684, 7790V3696, F7790V3696, 7750V36120, F7750V36120 | 32” | 6” | 30” to 36” door width
7780V4896, F7780V4896, 7740V48120, F7740V48120 | 44” | 10” | 38” to 48” door width
LBR7760V & LBRF7760V Series
GRADE 1 Vertical Rod Exit Device Less Bottom Rod (LBR)

Specifications
For Doors........................................... 1 ¾" thick standard optional 2 ¼" thick. 3 ½" minimum stile width required for single door application. 3 ¼" minimum stile width required for double door application. Lever, thumb piece and escutcheon trims available. 2 ¼" backset
Top Chassis................................. Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
Cover............................................... Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out
Mounting............................................ Furnished with wood and machine screws. Thru-bolts are included and standard packaging on fire rated devices
End Cap........................................... Brass, Bronze or Stainless Steel construction
Alarm............................................... Available. Prefix “NALRM” before MODEL #

Hand............................................... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
Latch Bolt & Spring................. Stainless Steel
Spring............................................. Stainless Steel throughout
ANSI Standard......................... A156.3, Grade 1
Rail Assembly......................... Heavy gauge extruded aluminum body with Stainless Steel push pad
Strike............................................. See strike page
Dogging Feature......................... Allen-type key furnished standard on non-fire labeled devices
UL and ULC Listed.............. 7760 Series for panic. F7760 Series for fire exit hardware for all types of 5' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
Finish............................................. Architectural plated finishes
Electronic Functions.......... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

DIMENSIONS
Touch bar height to finished floor 41" (1041 mm) at center
Touch bar projection
Neutral 3 ½" (92 mm)
Depressed 2 ¼" (73 mm)
Center case 8 ¾" x 2 ¼" x 2 ½" (205 mm x 68 mm x 62 mm)
Panic grade top & bottom latch case 3 ¾" x 2 ¼" x 1 ½" (100 mm x 52 mm x 42 mm)
Fire grade top latch case 3 ¾" x 2 ¾" x 2 ¾" (100 mm x 68 mm x 53 mm)
Fire grade bottom latch case 3 ¾" x 2 ¼" x 1 ½" (100 mm x 52 mm x 42 mm)
Top rod length for 36" x 84" doors Top rod 37 ½" (955 mm)
Top rod length for 48" x 96" doors Top rod 49 ⅝" (1260 mm)
Vertical Rods ½" (13 mm) Round tubing

MODEL ACTUAL SIZE MAXIMUM CUT DOWN DOOR SIZE
LBR7760V3684, LBRF7760V3684, LBR7790V3696, LBRF7790V3696, LBR7750V36120 32" 6" 30" to 36" door width
LBR7780V4896, LBRF7780V4896, LBR7740V48120 44" 10" 38" to 48" door width

MINIMUM STILE REQUIREMENTS
Double Door with Two Vertical Rod Type Exit Devices
3-1/2" Min. Stile
DE7700 Series
GRADE 1 Delayed Egress All in One Exit Device
ANSI BHMA A156.24 Delayed Egress Locking System Approved

FEATURES

**EGRESS DELAY**
- All in One Device
- 15 or 30 second exit delay (Factory set to 15 secs)
- 1 or 2 second nuisance delay
- Alarm and Lock reset
- 1 to 30 second momentary bypass
- Sustained bypass

**BUILT-IN ANNUNCIATION**
- Armed mode
- Nuisance mode
- Irreversible egress mode
- Release mode

**CODE COMPLIANCE**
- IFC International Fire Code
- IBC International Building Code
- NFPA 1 Uniform Fire Code
- California Building Code
- Field selectable automatic or manual power up after emergency release or power loss

**CONTROL INPUTS**
- 1 to 30 second request-to-exit and bypass input with anti-tailgate and jumper selectable door prop alarm
- Reset

**TRIGGER MODES**
- Egress Alarm triggered by Push Bar
- Trigger input from external device field selectable (N/O or N/C)

**MONITORING OUTPUTS**
- Armed mode
- Nuisance mode
- Release status

**Optional External Inhibit Input**
- Remote override
- Remote reset

MUST ORDER CR602RF or CR631RF POWER SUPPLY TO HONOR WARRANTY AND UL MARKING

TECHNICAL SPECIFICATIONS

**APPLICATION**
When unauthorized egress is initiated the device delays egress through the door for 15 seconds (or 30 seconds). Meanwhile, the person exiting must wait while personnel or security responds. The door unlocks after 15 seconds have elapsed permitting egress. When powered by a fire control supervised power supply, the lock will release immediately in an emergency.

FOR USE WITH: (FIRE AND NON-FIRE)
- DE7700 Rim Panic Exit Device
- DEF7700 Rim Panic Exit Device
- DEMCVR7700 Concealed Vertical Rod (metal doors)
- DEWCVR7700 Concealed Vertical Rod (wood doors)
- DEFMCRV7700 Concealed Vertical Rod (metal doors)
- DEFWCVR7700 Concealed Vertical Rod (wood doors)
- DE7700V Surface Vertical Rod Exit Device
- DEF7700V Surface Vertical Rod Exit Device
- DEMR7700 Mortise Exit Device
- DEFR7700 Mortise Exit Device

CR631RF
- Field selectable 12 or 24V DC, regulated and filtered
- Auto resetting output circuit protection
- Isolated 13.5/27V DC battery charger
- Low battery disconnect
- Emergency release input
- Field selectable UBC & California compliant manual power up
- Input, output and battery status LED’s
- CR631RF - 16" x 14" x 6.5", CR602RF - 12" x 12" x 4" enclosure
- Choice of output and door control modules
- CR631RF - 1.5 Amp, CR602RF - 1.0 Amp
- Batteries not included

CR602RF

Power Supply CR602RF 1 Amp / CR631RF 1.5 Amp

1Recommends use of rod and latch guards and strike monitor for surface vertical rods
7700 Series Delayed Egress Models
GRADE 1 Delayed Egress All in One Exit Device
ANSI BHMA A156.24 Delayed Egress Locking System Approved

For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement. 7700 Series Delayed Egress can also be used 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, it conforms to standards UL10C and UBC 7-2-1997 codes.

DE7700, DEF7700 Rim Panic Exit Devices

DE7700V, DEF7700V Surface Vertical Rod Exit Devices

To effectively use the surface vertical rod exit device, it is recommended that the rod and latch guards and monitor strike be used.

DEMR7700, DEFMR7700 Mortise Exit Devices

If a door position switch is not used, the outside trim will operate the door without affecting the armed setting of the device.

DEMCV7700, DEFCV7700 (metal doors) DEWCV7700, DEFWCV7700 (wood doors) Concealed Vertical Rod Exit Devices

MUST ORDER CR602RF OR CR631RF POWER SUPPLY TO HONOR WARRANTY AND UL MARKING
Alarm Exit Hardware

Rim Type Exit Devices

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NALRM770036</td>
<td>Alarm Rim Type 36” Door (Panic Grade)</td>
</tr>
<tr>
<td>NALRM772048</td>
<td>Alarm Rim Type 48” Door (Panic Grade)</td>
</tr>
<tr>
<td>FNALRM770036</td>
<td>Alarm Rim Type 36” Door (Fire Grade)</td>
</tr>
<tr>
<td>FNALRM772048</td>
<td>Alarm Rim Type 48” Door (Fire Grade)</td>
</tr>
</tbody>
</table>

Vertical Rod Type Exit Devices

Prefix “NALRM” before PART #

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 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.
- Unit includes “EMERGENCY EXIT ONLY • ALARM WILL SOUND” decal for application on door or unit.

Cylinder Dogging Kit

TO ORDER: Prefix “CD” before PART #. Available for all 7700 Series devices except fire exit hardware. To order KIT ONLY: use PART # 36CD7700 for 36” and 48CD7700 for 48” devices. Specify finish.

Finishes (Refer to Price List for Stock Finishes)

<table>
<thead>
<tr>
<th>Cal-Royal</th>
<th>Description</th>
<th>BHMA</th>
<th>US Finish</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>10B</td>
<td>Oil Rubbed Bronze</td>
<td>613</td>
<td>US10B</td>
<td>Bronze</td>
</tr>
<tr>
<td>32D</td>
<td>Satin Stainless</td>
<td>630</td>
<td>US32D</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

(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. Corbin, Sargent and Yale format also available.
Trim Selection

CLUTCH CYLINDRICAL LEVER

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.

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

PASSAGE
Trim always operable and free.
ANSI Function - 15

DUMMY
Dummy trim. One sided
ANSI Function – 10


(II) INTERCHANGEABLE CORE: Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
(II) INTERCHANGEABLE CORE: Indicates function available with
Schlage Full Size Format Interchangeable Core. Corbin, Sargent and Yale format also available.

When ordering “AT” and “SPA” designs, prefix design name before Part #. Example: ENT00L in “AT” is ATENT00L.

Other Lever Trim Designs
CONSTRUCTION
• Rigid, non-clutch mechanism
• Double heavy duty spring support to prevent sagging and enhance operation
• Grade 1, thru-bolted design. Non-handed design. Easily field reversible
• Hardened steel heavy duty tailpiece. Available for fire and non-fire rated rim and vertical rod exit devices
• Standard 6-Pin Schlage “C” Mortise Cylinder included

DOOR THICKNESS
Standard 1 ¾”. For 2 ¼” thick door use additional Part # TAIL3

ESCUTCHEON DIMENSIONS
2 ¾” width X 10 ¼” length. Lever length: 4 ¾”.
Fits and covers 2 ⅛” 161 cutout

ESC7700 or ICESC7700 or ICSCESC7700
ENTRANCE
Rigid Entrance, key locks or unlocks escutcheon trim
ANSI FUNCTION (63) Operates as classroom function

ESC7705 or ICESC7705 or ICSCESC7705
STOREROOM
Rigid Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked
ANSI FUNCTION (04)

ESC7730
PASSAGE
Trim always operable and free
ANSI Function (62)

ESC7740
DUMMY
Dummy Escutcheon trim ANSI FUNCTION (10)

TO ORDER other lever design insert “AT” or “RL” before “ESC”:
e.g. ATESC7700 for ESC7700 with AT design or RLESC7700 for ESC7700


FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 12

(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. Corbin, Sargent and Yale format also available.
Trim Selection

HEAVY DUTY STAINLESS STEEL CLUTCH LEVER ESCUTCHEON (High Frequency Abusive Situation such as Schools, Hospitals, Industrial / Institutional)

CONSTRUCTION
- Clutch mechanism
- Double heavy duty spring support to prevent sagging and enhance operation
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible
- All Stainless Steel heavy duty tailpiece. Available for fire and non-fire rated rim and vertical rod exit devices
- Standard 6-Pin Schlage “C” Mortise Cylinder included

DOOR THICKNESS
Standard 1 ¾” to 2”. For 2” or 2 ½” thick door use additional Part # TAIL9

ESCUTCHEON DIMENSIONS
2 5/8” width X 10 5/8” length. Lever length: 4 5/8”.
Fits and covers 2 ⅛” 161 cutout

HDESC-00 or ICHDESC-00
ICSHDESC-00
HDTSESC-00
ICHDTSESC-00
ICSHDTSESC-00

HDESC-05 or ICHDESC-05
ICSHDESC-05
HDTSESC-05
ICHDTSESC-05
ICSHDTSESC-05

HDESC-30
HDTSESC-30

Trim always operable and free
ANSI Function (62)

HDESC-40
HDTSESC-40

Dummy Escutcheon trim ANSI FUNCTION (10)


FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 12

(IN) INTERCHANGEABLE CORE: Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

(INSC) INTERCHANGEABLE CORE: Indicates function available with Schlage Full Size Format Interchangeable Core. Corbin, Sargent and Yale format also available.
Trim Selection

PULL DESIGN

FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latch bolt.
ANSI function – 03
Covers 161 cutout

KEYWAY
Standard 6-Pin solid brass “C” keyway Rim Cylinder included.

FINISHES
Architectural plated finishes.

7700 NL
IC7700NL
ICSC7700NL

7700 DTP
Outside by pull only.
Pull when dogged.
ANSI function – 02
Covers 161 cutout

7700 EOP
Outside by plate only.
ANSI function – 10
Covers 161 cutout

### TRIM SELECTION

**77TP00 or 77TP05**

<table>
<thead>
<tr>
<th>Trim Selection</th>
<th>Keyway Options</th>
<th>Key Operation</th>
<th>ANSI Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTRANCE</td>
<td>Key locks or unlocks thumbpiece.</td>
<td>(Operates as classroom function)</td>
<td>63</td>
</tr>
<tr>
<td>STOREROOM</td>
<td>Key unlocks thumbpiece, thumbpiece retracts latch bolt, otherwise always locked.</td>
<td>ANSI Function-04</td>
<td></td>
</tr>
<tr>
<td>PASSAGE</td>
<td>Trim always operable and free.</td>
<td>ANSI Function – 62</td>
<td></td>
</tr>
<tr>
<td>DUMMY</td>
<td>Dummy trim. <strong>Includes blank Mortise dummy cylinder.</strong> One sided.</td>
<td>ANSI function – 10</td>
<td></td>
</tr>
</tbody>
</table>


**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. Corbin, Sargent and Yale format also available.

**FINISHES**
Architectural plated finishes.
Electrified Lever Trim

Cal-Royal’s electrified lever trim provides remote locking and unlocking capabilities using industry safety standards. 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

Options
- Available Fail Safe (Electrically Locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC/DC)
- Request to Enter Switch (REE)
- 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)

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS12</td>
<td>FS12 FAIL-SAFE OPTION 12V AC/DC</td>
</tr>
<tr>
<td>FS24</td>
<td>FS24 FAIL-SAFE OPTION 24V AC/DC</td>
</tr>
<tr>
<td>FSE12</td>
<td>FSE12 FAIL-SECURE OPTION 12V AC/DC</td>
</tr>
<tr>
<td>FSE24</td>
<td>FSE24 FAIL-SECURE OPTION 24V AC/DC</td>
</tr>
</tbody>
</table>

TO ORDER other design add “ESCC77”, “ATESCC77”, “RLESC77”, “TUBESC77”
e.g. FSE24ATESCC77 for ESC77 in AT design or FSE24RLESC77 for ESC77 in RL design

TO ORDER heavy duty design add HD or TS to Item#
e.g. FS12HD or FS12TS
Our motor driven 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 7700 Series, including rim, vertical rod, concealed vertical rod fire-rated devices
- MM3 Smart Module: On board diagnostics with audible feedback for adjustment and power issues
- “PTS” (Push to Set Technology): 5 second electronic adjustment for easy post installation adjustment
- Electric dogging rated for continuous duty - Auto retraction if dogged push pad is pulled from position
- Low current draw
- Up to 500’ wire run with (2) 18ga wire - Long wire runs provides installer with convenience of placing the locking device power supply in a centralized location; i.e. the same closet as the access panel
- 6’ cable with Quick Connect for MM3 module to easily connect to power supply lead
- 3-year “No Hassle” warranty

Specifications:
- Voltage – 22 to 28 VDC
- System protection – unit shutdown when voltage exceeds 28VDC
- Average In-rush Current – 1A; Average Hold Current -180mA
- PTS adjustment – approx. 1/4”
- Wire run: 500’ with 18ga wire; 700’ with 16ga wire

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 ELR (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: - RX7700.......................Request to Exit switch for field installation
LX7700.......................Latch bolt Monitoring switch for field installation
LXRX7700......................Latch bolt Monitoring/Request to Exit Combination

FOR FIELD INSTALLATION
USE FLR7700 KIT

MUST USE CRP POWER SUPPLIES TO HONOR WARRANTY (see page 15)
Heavy Duty Digital Exit Trims

MECHANICAL CRCODE101
Features
• Heavy Duty
• Designed for 7700 and 9800 Series
• Grade 1 Panic Exit Device
• Single code (up to 8000 code combinations)
• Weather-resistant finish
• Code can be changed anytime without dismounting
• Full size, non-handed lever handle
• Easy Installation
• Reversible Handing

ELECTRONIC CRCODE007
Features
• Dual mode for code free entry either mechanically by key or electronically thru the keypad
• Designed for 7700 and 9800 Series
• Can store up to 90 different numeric user codes in 4, 5 or 6 digits
• Settings remain in memory when batteries are removed
• Audible alarm sounds after 3 incorrect attempts
• Connections available for remote release switch and automatic lock activation when linked to Fire alarm system
• Can be used as STOREROOM or CLASSROOM function
• Factory default set as STOREROOM function
• Fast and easy programming via master code

CR5000 TRILOGY® KEYLESS EXIT TRIM
Features
• Clutch mechanism insures long life and durability
• Fingertip and/or Windows programmable
• 2000 User Codes: Master, manager, supervisor and users
• Real Time Clock for up to 40,000 Event Time/Date-Stamped Audit Trail
• Up to 500 Lock/Unlock Schedules (with Time Zone Support)
• Rugged 12-Button Metal Keypad
• Non-Handed; Fully Field Reversible
• Adaptable to most major manufacturers of standard RIM and IC RIM Cylinders
• Battery operated; uses 5 AA batteries
• Optional Interchangeable Core available with Best, Falcon, Arrow Small Format and Schlage Full Size Format IC Cores

MECHANICAL CRCODE 204
Features
• Breakaway Lever Design
• Easy On-Door Code Change
• Weather Resistant
• Code-Free Option (Passage)
• Non-Handed
• 1 - 12 digit Length Code
• Thousands of Possible Code Combinations
• Single Code User
• Applications: Offices, Schools, Hospitals, Apartments, Hotels/Motels, Residential, Commercial and Public Buildings
• Door Thickness: 1 ¼" - 2"

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.

KABA InSync CP is not sold through CAL-ROYAL. For inquiries and information on InSync line of products please visit www.kabamultihousing.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 motor driven electric latch retracting exit devices. The power supply comes housed in a sturdy, yet compact metal enclosure.

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
- No hassle 2-year warranty

Specifications:
- Input voltage – 120 VAC
- Output voltage – 24 VDC unregulated @ 1A
- 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”

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 2-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 CRPS3 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 CRPS3 supplies 2.4A @ 27VDC and provides (3) non-fused outputs. The CRPS3 comes housed in a 10” x 10” x 4” sturdy metal enclosure.

CRPS202/202B linear design makes it a perfect match for electric locks, motor driven exit devices, electric strikes, and mag locks.

CRPS202
CRPS202B

Features:
- Built to run up to 2 locks, exit trim and LP Motor Kits
- Interruption-free battery back-up
- Door mounted LED Power Indicator
- Over-voltage protection
- Regulated, independent battery charging
- Fire alarm link
- No hassle 2-year warranty

Specifications:
- Input voltage – 120 VAC, 60 Hz
- Input Fuse: 2 Amp Fuse @ 250VAC
- Output voltage – 2A @ 24VDC
- Temperature range: 0 to 49°C; 32 to 120°F
- Maximum humidity: 85%

The CRPS5 power supply is a regulated, linear power supply rated at 5 Amps @ 24VDC. Its state-of-the-art, solid-state design offers a flexible and cost effective solution to powering and controlling low current DC locking devices. It is available in 4, 6, and 8 I/O models.

CRPS5 (5 Amps, 1 I/O)

OPTIONS:
CRPS5-4 (1.25 Amps, 4 I/O)
CRPS5-6 (0.83 Amps, 6 I/O)
CRPS5-8 (0.625 Amps, 8 I/O)

Features:
- Adjustable output voltage from 24-27VDC
- Independent, Battery backup charging circuit at 27.6V with Solid-state design and very low voltage loss
- No hassle 2-year warranty

Specifications:
- Input voltage - 110 VAC
- Output voltage - 24VDC @ 5A continuous current
- Up to (8) Solid-state inputs (specify dry contact or voltage trigger)
- Up to (8) Solid-state outputs
- Thermal auto-resetable fuses
MCVR7700 & FMCVR7700 Series
Optional Less Bottom Rod (LBR)
Grade 1 Concealed Vertical Rod Exit Device for Metal Doors

Specifications

LBR (Optional).................. No bottom strike. Free access for wheel chairs, stretchers and carts which eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.

For Doors........................ Metal. 1 ¾” (44.5 mm) minimum thickness
4 ½” (114 mm) minimum stile width

Top Chassis..................... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Chassis Cover.................... Non-ferrous plated material

Mounting......................... Furnished standard with machine screws

End Cap........................... Brass, Bronze or Stainless Steel construction

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

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

Strikes............................ 260 top and 265 bottom

Top and Bottom Bolts......... Stainless Steel. Top and bottom bolt travel 7/16” (11 mm)
Projection adjustable up to 1” (25 mm)

Fire Exit Hardware.......... FMCVR7700 Series for fire exit hardware for all types of 8’ x 10’ double doors,
LBR 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

Rail Height...................... Specify door opening and mounting height of center line of rail when ordering a Vertical Rod Exit Device 41” from floor

Trim.............................. See Trim Designs section

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

Alarm............................. Prefix “NALRM” before PART #

Dogging Feature.............. Cylinder dogging available for non-rated applications

<table>
<thead>
<tr>
<th>MODEL SIZE</th>
<th>ACTUAL LENGTH</th>
<th>MAX CUT DOWN</th>
<th>DOOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>M77CVR3684, FM77CVR3684, M77CVR3696, FM77CVR3696, M77CVR36120, FM77CVR36120</td>
<td>32”</td>
<td>6”</td>
<td>30” to 36” door width</td>
</tr>
<tr>
<td>M77CVR4896, FM77CVR4896, M77CVR48120, FM77CVR48120</td>
<td>44”</td>
<td>10”</td>
<td>38” to 48” door width</td>
</tr>
</tbody>
</table>
WCVR7700 & FWCVR7700 Series

Optional Less Bottom Rod (LBR)
GRADE 1 Concealed Vertical Rod Exit Device for Wood Doors

Specifications

LBR (Optional)....................... No Bottom Strike. Free access for wheel chairs, stretchers and carts which eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.

For Doors............................. Wood. 1 ¾" (44.5 mm) minimum thickness
                               4 ½" (114 mm) minimum stile width

Top Chassis.......................... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Chassis Cover....................... Non-ferrous plated material

Mounting............................. Furnished standard with machine screws

End Cap.............................. Brass, Bronze or Stainless Steel construction

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

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

Stikes................................ 260 top and 265 bottom

Top and Bottom Bolts............. Stainless Steel. Top and bottom bolt travel 7/16" (11 mm)
                               Projection adjustable up to 1" (25 mm)

Fire Exit Hardware.............. FWCVR7700 Series for fire exit hardware for all types of 8' x 10' double doors,
                               LBR 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

Rail Height.......................... Specify door opening and mounting height of center line of rail when ordering a
                               Vertical Rod Exit Device 41" from floor

Trim................................... See Trim Designs section

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

Alarm................................. Prefix “NALRM” before PART #

Dogging Feature............... Cylinder dogging available for non-rated applications

<table>
<thead>
<tr>
<th>MODEL SIZE</th>
<th>ACTUAL LENGTH</th>
<th>MAX CUT DOWN</th>
<th>DOOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>W77CVR3684, FW77CVR3684, W77CVR3696, FW77CVR3696, W77CVR36120, FW77CVR36120</td>
<td>32&quot;</td>
<td>6&quot;</td>
<td>30&quot; to 36&quot; door width</td>
</tr>
<tr>
<td>W77CVR4896, FW77CVR4896, W77CVR48120, FW77CVR48120</td>
<td>44&quot;</td>
<td>10&quot;</td>
<td>36&quot; to 48&quot; door width</td>
</tr>
</tbody>
</table>

260 TOP STRIKE
• For applications metal frames
• Stainless Steel

265 BOTTOM STRIKE
• Furnished with expansion shields
• Mortised into floor
• Stainless Steel
Trim Selection

ESCUTCHEON LEVER DESIGN

CONSTRUCTION
- Free-wheeling clutch mechanism
- Grade 1, thru-bolted design
- Non-handed design. Easily field reversible.

FINISHES
Architectural plated finishes

DOOR THICKNESS
Standard 1 ¾”

ESCUTCHEON DIMENSIONS
2 5/16” width X 8 ½” length. Lever length: 4 ¾”.
Fits and covers 2 ½” 161 cutout

CVRESC00 or ICCVRESC00 or ICSCCVRESC00
ENTRANCE
Clutch Entrance, key locks or unlocks escutcheon trim
ANSI FUNCTION (63) Operates as classroom function

CVRESC05 or ICCVRESC05 or ICSCCVRESC05
STOREROOM
Clutch Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked, ANSI FUNCTION (04)

CVRESC30
PASSAGE
Trim always operable and free, ANSI Function (62)

CVRESC40
DUMMY
Dummy Escutcheon trim, ANSI FUNCTION (10)


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

(ICS) INTERCHANGEABLE CORE: Indicates function available with Schlage Full Size Format Interchangeable Core. Corbin, Sargent and Yale format also available.

FOR ELECTRIFICATION OPTION:
SPECIFY ITEM# UPON ORDERING
FOR ENTRANCE, STOREROOM, AND PASSAGE ESCUTCHEON LEVER TRIMS

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS12CVR</td>
<td>FAIL-SAFE (FS) OPTION 12V AC/DC</td>
</tr>
<tr>
<td>FS24CVR</td>
<td>FAIL-SAFE (FS) OPTION 24V AC/DC</td>
</tr>
<tr>
<td>FSE12CVR</td>
<td>FAIL-SECURE (FSE) OPTION 12V AC/DC</td>
</tr>
<tr>
<td>FSE24CVR</td>
<td>FAIL-SECURE (FSE) OPTION 24V AC/DC</td>
</tr>
</tbody>
</table>
Specifications

For Doors............................ Wood/Metal 1 ¾” (44.5 mm) minimum thickness
4 ½” (114 mm) minimum stile width
Chassis.................................. Non-ferrous Alloy
Chassis Cover...................... Non-ferrous plated material
Mounting.............................. Furnished standard with wood and machine screws
End Cap................................ Brass, Bronze or Stainless Steel construction
Handing............................... Handed. Non-Reversible. Specify RHR or LHR for convenience
ANSI Standard..................... A156.3, Grade 1
Strikes............................... Standard ANSI strike
Fire Exit Hardware............. FMR7700 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.
Mortise Lock....................... Grade (1) for 1 ¾” (44.5mm) thick doors. Handed (Non-Reversible). Specify RHR or LHR. Fits door prepared for ANSI Standard A115.1
Trim................................. See Trim Designs section
Electronic Functions......... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Alarm................................. Prefix “NALRM” before PART #
Dogging Feature............... Cylinder dogging available for non-fire rated applications

<table>
<thead>
<tr>
<th>MODEL SIZE</th>
<th>ACTUAL LENGTH</th>
<th>MAX CUT DOWN</th>
<th>DOOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MR7700EO36, FMR7700EO36</td>
<td>32”</td>
<td>6”</td>
<td>30” to 36” door width</td>
</tr>
<tr>
<td>MR7705EO36, FMR7705EO36</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MR7700EO48, FMR7700EO48</td>
<td>44”</td>
<td>12”</td>
<td>36” to 48” door width</td>
</tr>
<tr>
<td>MR7705EO48, FMR7705EO48</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OPTIONAL OPEN BACK STRIKE

OBSTRKLH
OBSTRKRH
MR7700 & FMR7700 Series
GRADE 1 Mortise Lock Exit Device
Trim Selection

ESCUTCHEON LEVER DESIGN

FINISHES
Architectural plated finishes

DOOR THICKNESS
Standard 1 ¾"

HANDELING
Non-Handed Trim

ESCUTCHEON DIMENSIONS
2” width X 8 ½” length. Lever length: 4 ¾”.

| MRESCE-00 or MRESCE00TS or ICMRESCE-00 or ICSCMRESCE-00 or ICMRESCE-00TS | ENTRANCE | Key locks or unlocks lever
| MRESCE-05 or MRESCE05TS or ICMRESCE-05 or ICSCMRESCE-05 or ICMRESCE-05TS | STOREROOM | Key retracts latch bolt, otherwise always locked
| MRESE-30 or MRESCE30TS | PASSAGE | Trim always operable and free

IMPORTANT: MR7700 and FMR7700 Mortise Lock case comes standard with exit device. (TRIMS SOLD SEPARATELY)


(I) 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. Corbin, Sargent and Yale format also available.

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS12MR</td>
<td>FAIL-SAFE (FS) OPTION 12V AC/DC</td>
</tr>
<tr>
<td>FS24MR</td>
<td>FAIL-SAFE (FS) OPTION 24V AC/DC</td>
</tr>
<tr>
<td>FSE12MR</td>
<td>FAIL-SECURE (FSE) OPTION 12V AC/DC</td>
</tr>
<tr>
<td>FSE24MR</td>
<td>FAIL-SECURE (FSE) OPTION 24V AC/DC</td>
</tr>
</tbody>
</table>

*Must be used with MRESCE00 Trim.*
GLS7700 Series
GRADE 1 Rim Type Narrow Stile Exit Device

Specifications

For Doors.................................. Wood, Metal or Aluminum Glass doors with 1 ¾" minimum stile width, 1 ¾" thickness for single or double door application
Chassis.................................. Non-ferrous Alloy (Panic Grade)
Cover.................................... Non-ferrous plated material.
Mounting................................. Furnished with wood and machine screws. Thru-bolts available upon request.
End Cap.................................. Brass, Bronze or Stainless Steel construction
Alarm..................................... Available on 36" bar only. Prefix “NALRM” before PART #
Hand...................................... Non-handed
Latch Bolt............................... Stainless Steel ¾” throw
Spring.................................... Stainless Steel throughout
ANSI Standard.......................... A156.3, Grade 1
Rail Assembly............................ Heavy gauge extruded aluminum body with Stainless Steel push pad
Strike..................................... 246 packed standard. Optional 247 strike. (See strike page)
Dogging Feature......................... Allen-type key furnished standard
Mullion.................................. Available
UL and ULC Listed...................... GLS7700 Series for Panic & Safety for all types of 4’ x 8’ single doors and 8’ x 8’ double doors
Finish.................................... Architectural plated finishes
Electronic Functions.................. (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

DIMENSIONS

Push Rail height to finished floor 41” (1041 mm) at center
Push Rail projection

<table>
<thead>
<tr>
<th></th>
<th>Neutral</th>
<th>Depressed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 ¾” (92 mm)</td>
<td>2 ¾” (73 mm)</td>
</tr>
</tbody>
</table>
Center case

<table>
<thead>
<tr>
<th>MODEL</th>
<th>ACTUAL LENGTH</th>
<th>MAX CUT DOWN</th>
<th>DOOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLS7700EO36</td>
<td>34 ½”</td>
<td>10”</td>
<td>26” to 36” width</td>
</tr>
<tr>
<td>GLS7700EO48</td>
<td>45 ⅝”</td>
<td>12”</td>
<td>36” to 48” width</td>
</tr>
</tbody>
</table>
Specifications

For Doors............................. Metal or Aluminum Glass doors with 1 ¼" minimum stile width, 1 ¾" thickness for single or double door application

Top Chassis............................ Non-ferrous Alloy (Panic Grade)

Cover................................. Non-ferrous plated material

Mounting............................... Furnished with wood and machine screws

End Cap................................. Brass, Bronze or Stainless Steel construction

Hand................................. Handed. Specify RHR or LHR

Top and Bottom Bolts............ Stainless Steel. Top and bottom bolt travel 7/16" (11 mm)
                                 Stainless Steel. Adjustable to 1" (25 mm)

Spring................................. Stainless Steel throughout

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

Rail Assembly......................... Heavy gauge extruded aluminum body with Stainless Steel push pad

Strike................................. 260 Top and 265 Bottom strikes packed standard (See strike page)

Dogging Feature...................... Allen-type key furnished standard

Mullion................................. Available

UL and ULC Listed............... GLSCVR7700 Series for Panic & Safety for all types of 4' x 8' single doors and 6' x 8' double doors for Panic & Safety. FGLSCVR7700 Series for all types of 6' x 7' pair of doors for up to 3 hour fire labelled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.

Finish................................. Architectural plated finishes

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

DIMENSIONS

| Push Rail height to finished floor | 41" (1041 mm) at center |
| Push Rail projection               |                         |
| Neutral                            | 3 1/4" (92 mm)          |
| Depressed                          | 2 3/4" (73 mm)          |
| Center case                        | 8 1/8" x 1 1/8" x 2 1/8" (205 mm x 29 mm x 60 mm) |

<table>
<thead>
<tr>
<th>MODEL</th>
<th>ACTUAL LENGTH</th>
<th>MAX CUT DOWN</th>
<th>DOOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLSCVR773684, FGLSCVR773684</td>
<td>34 1/2&quot;</td>
<td>10'</td>
<td>26&quot; to 36&quot; width</td>
</tr>
<tr>
<td>GLSCVR774884</td>
<td>45 3/8&quot;</td>
<td>12&quot;</td>
<td>36&quot; to 48&quot; width</td>
</tr>
</tbody>
</table>
Trim Selection

ESCUTCHEON LEVER DESIGN

CONSTRUCTION
- Free-wheeling clutch mechanism.
- Grade 1, thru-bolted design. Reversible design
- Hardened steel heavy duty tailpiece. Available for rim and concealed vertical rod exit devices

DOOR THICKNESS
Standard 1 ¾”

ESCUTCHEON DIMENSIONS
1 13/16” width X 8” length
Lever length: 5”

GLSRIM9800  ENTRANCE
GLSCVR9800  Clutch free-wheeling Entrance, key locks or unlocks escutcheon
ICGLSRIM9800  trim ANSI FUNCTION (63) Operates
ICGLSCVR9800  as classroom function
ICSCGLSRIM9800  CVR is used for Concealed Vertical Rod Exit Device
ICSCGLSCVR9800  RIM is used for Rim Type Exit Device

GLSRIM9805  STOREROOM
GLSCVR9805  Clutch free-wheeling Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked
ICGLSRIM9805  ANSI FUNCTION (04)
ICGLSCVR9805  CVR is used for Concealed Vertical Rod Exit Device
ICSCGLSRIM9805  RIM is used for Rim Type Exit Device

GLSRIM9830  PASSAGE
GLSCVR9830  Trim always operable and free
ANSI FUNCTION (62)
CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

GLSRIM9840  DUMMY
GLSCVR9840  Dummy Escutcheon trim ANSI FUNCTION (10)
CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device


(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. Corbin, Sargent and Yale format also available.
Trim Selection
PULL DESIGN - FOR GLS7700 RIM EXIT DEVICE ONLY

98GLSNL
IC98GLSNL
ICSC98GLSNL
Outside by pull and key. Key retracts latch bolt. ANSI function – 03 (SPECIFY HANDING)

98GLSUP
Outside by pull only. Pull when dogged. ANSI function – 02 (NON-HANDED)

GLSRIMEOP
Outside cover plate only. ANSI function – 10

KEYWAY
Standard 6-Pin solid brass “C” keyway Rim Cylinder included.

FINISHES
Architectural plated finishes.

IMPORTANT: GLS7700 and GLSCVR7700 Trims are interchangeable with GLS9800 and GLSCVR9800 Trims

98GLSCYL-1
IC98GLSCYL-1
ICSC98GLSCYL-1
OFSTPUL-10 (REVERSIBLE)


(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. Corbin, Sargent and Yale format also available.
# Strike & Accessories

## Strikes for use with 7760 vertical rod exit device

All strikes are black nylon coated.

<table>
<thead>
<tr>
<th>Strike</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>221</td>
<td>Standard for 7760. Applied to surface of floor or to a flat threshold. Standard packaging.</td>
<td></td>
</tr>
</tbody>
</table>

## Overlapping Strikes

<table>
<thead>
<tr>
<th>Strike</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>951</td>
<td>Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.</td>
<td></td>
</tr>
</tbody>
</table>

## Additional Rods

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

## Stripes for use with 7760 vertical rod fire exit device

<table>
<thead>
<tr>
<th>Strike</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>245</td>
<td>Surface applied for F7760. Standard packaging.</td>
<td></td>
</tr>
</tbody>
</table>

## Additional Accessories

- **LFF**
  - Lock front filler
    - For 7700 surface applied. Standard packaging.

- **SF**
  - Strike filler
    - Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.

## Stripes for use with 7700 rim type exit device

- **938**
  - For 7700 surface applied. Standard packaging.

## Glass Bead Shim Kits

- **901**
  - For rim type, ¼" thick
- **906**
  - For vertical type, ¼" thick
- **912**
  - For fire rated type, ¼" thick
## Fire Exit Hardware Selector

<table>
<thead>
<tr>
<th>FIRE EXIT HARDWARE RATING</th>
<th>UL DOOR RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICATION</td>
<td>MODEL #</td>
</tr>
<tr>
<td>SINGLE DOORS</td>
<td>F7700EO36</td>
</tr>
<tr>
<td></td>
<td>F7720EO48</td>
</tr>
<tr>
<td>PAIRS OF DOORS</td>
<td>F7760V3684 X</td>
</tr>
<tr>
<td></td>
<td>F7760V3684</td>
</tr>
<tr>
<td>PAIRS OF DOORS</td>
<td>F7790V3696 X</td>
</tr>
<tr>
<td></td>
<td>F7790V3696</td>
</tr>
<tr>
<td></td>
<td>F7780V4896 X</td>
</tr>
<tr>
<td></td>
<td>F7780V4896</td>
</tr>
<tr>
<td>PAIRS OF DOORS</td>
<td>F7700EO36</td>
</tr>
<tr>
<td></td>
<td>F7720EO48</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Exit device model number</th>
<th>Fire grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>7700 EO36 Rim type 36&quot; door</td>
<td>F7700 EO36 Rim type 36&quot; door</td>
</tr>
<tr>
<td>7720 EO48 Rim type 48&quot; door</td>
<td>F7720 EO48 Rim type 48&quot; door</td>
</tr>
<tr>
<td>7760 V3684 Vertical rod type 36&quot; x 84&quot;</td>
<td>F7760 V3684 Vertical rod type 36&quot; x 84&quot;</td>
</tr>
<tr>
<td>7790 V3696 Vertical rod type 36&quot; x 96&quot;</td>
<td>F7790 V3696 Vertical rod type 36&quot; x 96&quot;</td>
</tr>
<tr>
<td>7780 V4896 Vertical rod type 48&quot; x 96&quot;</td>
<td>F7780 V4896 Vertical rod type 48&quot; x 96&quot;</td>
</tr>
<tr>
<td>VRRD10 – Rod for 10' non-rated door</td>
<td>F7750 V36120 Vertical rod type 36&quot; x 120&quot;</td>
</tr>
<tr>
<td>7750 V36120 Vertical rod type 36&quot; x 120&quot;</td>
<td>F7740 V48120 Vertical rod type 48&quot; x 120&quot;</td>
</tr>
<tr>
<td>7740 V48120 Vertical rod type 48&quot; x 120&quot;</td>
<td></td>
</tr>
</tbody>
</table>

1) Specify exit device model number according to size of door.
2) Specify trim selection. For Interchangeable Core prefix “IC” before Part #. See trim selection pages.
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:
   US10B, 32D. See Page 7
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: 7700EO36 ALUM X SBN X ENTO0L 26D
F7780V4896 10B X ICSTR05L 10B
### 7700 Series

**Fire and Non-Fire Exit Devices**

**ANSI A156.3 Grade 1 Selector Chart**

<table>
<thead>
<tr>
<th>SINGLE DOOR</th>
<th>PAIR OF DOORS WITHOUT MULLION</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Single Door Diagram" /></td>
<td><img src="#" alt="Pair of Doors Without Mullion Diagram" /></td>
</tr>
<tr>
<td>Vertical rod type or Rim type</td>
<td>Surface applied 2 point lock. Surface application</td>
</tr>
<tr>
<td></td>
<td>2 Vertical rod type</td>
</tr>
<tr>
<td></td>
<td>Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAIR OF DOORS WITH MULLION</th>
<th>PAIR OF DOORS WITHOUT MULLION</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Pair of Doors with Mullion Diagram" /></td>
<td><img src="#" alt="Pair of Doors Without Mullion Diagram" /></td>
</tr>
<tr>
<td>2 Rim type with mullion</td>
<td>Two independent active doors with full double door openings when required. Same direction.</td>
</tr>
<tr>
<td>1 Vertical rod and 1 Rim type</td>
<td>Both devices are surface applied. A coordinator and overlapping strike is recommended.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAIR OF DOORS WITHOUT MULLION</th>
<th>HANDING</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Pair of Doors Without Mullion Diagram" /></td>
<td><img src="#" alt="Handering Diagram" /></td>
</tr>
<tr>
<td>2 Vertical rod type</td>
<td>Double egress surface applied. 2 point locking both doors opposite directions.</td>
</tr>
<tr>
<td></td>
<td><img src="#" alt="Left Hand Orientation" /> (LHR) (Left hand reverse) <img src="#" alt="Right Hand Orientation" /> (RHR) Right hand reverse</td>
</tr>
</tbody>
</table>

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**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
# Exit Devices

## Comparison Chart

<table>
<thead>
<tr>
<th>RIM EXIT DEVICE CONVERSIONS</th>
<th>RIM</th>
<th>VERTICAL ROD</th>
<th>RIM</th>
<th>VERTICAL ROD</th>
<th>CONCEALED VERTICAL ROD</th>
<th>MORTISE RIM</th>
<th>NARROW STILE RIM</th>
<th>NARROW STILE CVR</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARROW</td>
<td>S1200</td>
<td>S1100</td>
<td>S3800 / 1800</td>
<td>S3700</td>
<td>S3600</td>
<td>S3900</td>
<td>S4803</td>
<td>S4601</td>
</tr>
<tr>
<td>CAL-ROYAL</td>
<td>9800 / 7700</td>
<td>9860 / 7760</td>
<td>2200 / 4400</td>
<td>2260</td>
<td>MCVR9800 / WCVR9800 / MCVR7700 / WCVR7700</td>
<td>MR9800 / MR7700</td>
<td>GLS9800 / GLS7700</td>
<td>GLSCVR9800 / GLSCVR7700</td>
</tr>
<tr>
<td>CORBIN / RUSSWIN</td>
<td>ED8200</td>
<td>ED8400</td>
<td>ED5400 / ED6000</td>
<td>ED4750</td>
<td>ED5800</td>
<td>ED5600</td>
<td>ED4200</td>
<td>ED4800</td>
</tr>
<tr>
<td>DETEX</td>
<td>V4000</td>
<td>---</td>
<td>10</td>
<td>20</td>
<td>70</td>
<td>30</td>
<td>V40NS</td>
<td>60</td>
</tr>
<tr>
<td>DORMA</td>
<td>8300</td>
<td>8400</td>
<td>9300</td>
<td>9400</td>
<td>9100</td>
<td>9500</td>
<td>AD4300</td>
<td>AD4100</td>
</tr>
<tr>
<td>PRECISION</td>
<td>5100</td>
<td>5200</td>
<td>2100 / 100</td>
<td>9800 / 200</td>
<td>2800</td>
<td>2300</td>
<td>2400</td>
<td>2600</td>
</tr>
<tr>
<td>SARGENT</td>
<td>2828</td>
<td>2727</td>
<td>8800 / 9898</td>
<td>8700</td>
<td>MD8600 / WD8600</td>
<td>8900</td>
<td>AD8500</td>
<td>AD8410</td>
</tr>
<tr>
<td>VON DUPRIN</td>
<td>98 / 99</td>
<td>9827 / 9927</td>
<td>98</td>
<td>9827</td>
<td>9947EO</td>
<td>9975EO</td>
<td>33A</td>
<td>3348</td>
</tr>
<tr>
<td>YALE</td>
<td>2100</td>
<td>2110</td>
<td>7100 / 1500</td>
<td>7110 / 1510</td>
<td>7120</td>
<td>7130</td>
<td>7250</td>
<td>7220</td>
</tr>
</tbody>
</table>

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