Features & Construction

- Retrofits Sargent 8800 Series using 9800 Escutcheon Trim
- Americans with Disability Act (ADA) compliant. 5lbs opening force on ADA product only
- ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- Rail assemblies and end caps are brass, bronze or stainless steel and rail travels in direction of the door swing
- Trims are thru-bolted for additional security
- Conforms & meets ADA Regulations (ADA products only)
- UL Listed for Panic and UL10C, 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.
- For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement

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 Underwriter’ 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, ADA option
Specifications

For Doors.................. 1 ¾” thick standard optional 2 ¼” thick. 4 ¼” minimum stile width required for single or double door application using standard 239 strike and pull or lever, thumbpiece and escutcheon trims.

ADA Series................. Prefix “A” before the MODEL #

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

Cover....................... Brass, Bronze or Stainless Steel. Covers stock hollow metal doors with 161 cutout

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

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

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

UL and ULC Listed........ 9800 Series for panic. F9800 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. See page 33

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 2 ½” (64 mm)
Depressed 1 ¾” (45 mm)

Center case 8 ½” x 2 ½” x 2” (216 mm x 64 mm x 51 mm)

MODEL ACTUAL SIZE MAX CUT DOWN DOOR SIZE
9800EO24, F9800EO24, 20” 2” 22” to 24” door width
9800EO32, F9800EO32 28” 6” 26” to 32” door width
9800EO36, F9800EO36 32” 6” 30” to 36” door width
9820EO48, F9820EO48 44” 12” 36” to 48” door width

*Add prefix “A” before MODEL # for ADA Exit Devices.

End Cap.................... Brass, Bronze or Stainless Steel construction
Alarm....................... Available. See page 33
Hand........................ Non handed, center hub
Latch Bolt................. Stainless Steel ¾” throw
Spring....................... Stainless Steel throughout
ANSI Standard............ A156.3, Grade 1
Strike....................... 239 packed standard (See strike page)
Trim......................... See Trim Designs section

Minimum Stile Requirements
4” escutcheon trims and 4 ½” for thumbpiece and rose trim
Specifications

For Doors.............................. 1 ¾" thick standard optional 2 ¼" thick. 3 ⅜" minimum stile width required for single door application. 3 ½" minimum stile width required for double door application. Lever, thumbpiece and escutcheon trims available. 2 ¾" backset

ADA Series.......................... Prefix “A” before the MODEL #
Top & Bottom Chassis............. Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
Cover................................. Brass, Bronze or Stainless Steel. Covers stock hollow metal doors with161 cutout.
Mounting.............................. Furnished with wood and machine screws. Thru-bolts are standard packaging on fire rated devices
Alarm................................. Available. Prefix “NALRM” before MODEL #
End Cap.............................. Brass, Bronze or Stainless Steel Construction
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 brass, bronze or stainless steel

Dimensions

<table>
<thead>
<tr>
<th>Touchbar Height to Finish Floor</th>
<th>41&quot; (1041 mm) at center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Touchbar Projection Neutral</td>
<td>2 ⅜&quot; (64 mm)</td>
</tr>
<tr>
<td>Touchbar Projection Depressed</td>
<td>1 ¼&quot; (45 mm)</td>
</tr>
<tr>
<td>Panic grade top &amp; bottom latch case</td>
<td>3 ⅞&quot; x 2 ⅛&quot; x 1 ½&quot; (100 mm x 54 mm x 35 mm)</td>
</tr>
<tr>
<td>Fire grade top latch case</td>
<td>3 ⅞&quot; x 2 ⅛&quot; x 2 ⅛&quot; (100 mm x 68 mm x 52 mm)</td>
</tr>
<tr>
<td>Fire grade bottom latch case</td>
<td>3 ⅞&quot; x 2 ⅛&quot; x 1 ½&quot; (100 mm x 54 mm x 35 mm)</td>
</tr>
<tr>
<td>Top and bottom rod length for 36&quot; x 84&quot;</td>
<td>Top rod 37 ½&quot; (953 mm), bottom rod 35 ¼&quot; (905 mm) ADA Top rod 35 ¼&quot; (895 mm), bottom rod 34 ½&quot; (867 mm)</td>
</tr>
<tr>
<td>Top and bottom rod length for 48&quot; x 96&quot;</td>
<td>Top rod 49 ½&quot; (1260 mm), bottom rod 35 ½&quot; (905 mm)</td>
</tr>
</tbody>
</table>

| Vertical Rods | ½" (13 mm) Round tubing |

Model ACTUAL SIZE MAX CUT DOWN DOOR SIZE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>ACTUAL SIZE</th>
<th>MAX CUT DOWN</th>
<th>DOOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>9810V2484, F9810V2484</td>
<td>20&quot;</td>
<td>2&quot;</td>
<td>22&quot; to 24&quot; door width</td>
</tr>
<tr>
<td>9860V3684, F9860V3684, 9880V3696, F9890V3696, 9850V36120, F9850V36120, 9870V3284, F9870V3284</td>
<td>32&quot;</td>
<td>6&quot;</td>
<td>30&quot; to 36&quot; door width</td>
</tr>
<tr>
<td>9880V4896, F9880V4896, 9840V48120, F9840V48120</td>
<td>44&quot;</td>
<td>12&quot;</td>
<td>36&quot; to 48&quot; door width</td>
</tr>
</tbody>
</table>

Minimum Stile Requirements

| 3 ½” Min. Stile |

*Add prefix “A” before MODEL # for ADA Exit Devices.
LBR9860V & LBRF9860V Series
ALBR9860V & ALBRF9860V ADA Series
GRADE 1, Vertical Rod Exit Device Less Bottom Rod

Specifications

For Doors..............................
1 ¾" thick standard optional 2 ¼" thick. 3 ¼" minimum stile width required for single
doors. 3 ½" minimum stile width required for double and application. Lever, thumbpiece and escutcheon trims available. 2 ¾" backset

ADA Series..............................
Prefix “A” before the MODEL #

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

Cover....................................
Brass, Bronze or Stainless Steel. Covers stock hollow metal doors with 161 cutout.

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

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

End Cap...............................
Brass, Bronze or Stainless 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.
Comes standard on Fire-Rated device only.

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

Rail Assembly.....................
Heavy gauge brass, bronze or stainless steel

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

Doggling Feature..................
Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available

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

UL and ULC Listed..............
9860 Series for panic. F9860 Series for fire exit hardware for all types
of 8’ x 8’ doors for up to 3-hour fire labeled installations.
Conforms to standards UL10C and UBC 7-2-1997 codes.

Finish.................................
Architectural plated finishes. See page 33

DIMENSIONS

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

Touchbar Projection
Neutral 2 ½” (64 mm)
Depressed 1 ¼” (32 mm)

Panic grade top & bottom latch case
3 15/16” x 2 ¾” x 1 ¼” (100 mm x 60 mm x 32 mm)

Fire grade top latch case
3 15/16” x 2 ½” x 2 ¼” (100 mm x 66 mm x 52 mm)

Fire grade bottom latch case
3 15/16” x 2 ¼” x 1 ½” (100 mm x 54 mm x 38 mm)

Top and bottom rod length for 36” x 84”
Top rod 37 ½” (953 mm)

Top and bottom rod length for 48” x 96”
Top rod 49 ½” (1260 mm)

Vertical rods
½” (13 mm) Round tubing

MODEL ACTUAL SIZE MAX CUT DOWN DOOR SIZE
LBR980V2484, LBRF9810V2484 20” 2” 22” to 24” door width
LBR9870V3284, LBRF9870V3284 28” 6” 26” to 32” door width
LBR9860V3684, LBRF9860V3684, LBR9890V3696, LBR9890V3696, LBR9850V36120 32” 6” 30” to 36” door width
LBR9880V4896, LBRF9880V4896, LBR9840V48120 44” 12” 36” to 48” door width

*Add prefix “A” before MODEL # for ADA Exit Devices.

Americans with Disability Act (ADA) compliant
5 lbs opening force on ADA Series only

*Refer to the Price List for Stock Sizes and Finishes

Minimum Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices

3 ½ Min. Stile
Alarm Exit Hardware
GRADE 1 Rim Type Exit Device

Rim Type Exit Devices
NALRM9800EO36  Alarm Rim Type 36" Door (Panic Grade)
NALRM9820EO48  Alarm Rim Type 48" Door (Panic Grade)
FNALRM980036  Alarm Rim Type 36" Door (Fire Grade)
FNALRM982048  Alarm Rim Type 48" Door (Fire Grade)

Also available on ADA Series

Vertical Rod Type Exit Devices
Prefix “NALRM” before MODEL #

Features
• 1, 3, 5-minute and continuous alarm type settings available 3 ½”
• 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

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>P</td>
<td>Prime Coat</td>
<td>600</td>
<td>USP</td>
<td>Steel</td>
</tr>
<tr>
<td>3</td>
<td>Polished Brass, Clear Powder Coat</td>
<td>605</td>
<td>US3</td>
<td>Brass</td>
</tr>
<tr>
<td>4</td>
<td>Satin Brass, Clear Powder Coat</td>
<td>606</td>
<td>US4</td>
<td>Brass</td>
</tr>
<tr>
<td>9</td>
<td>Polished Bright Bronze</td>
<td>611</td>
<td>US9</td>
<td>Bronze</td>
</tr>
<tr>
<td>10</td>
<td>Satin Bronze, Clear Powder Coat</td>
<td>612</td>
<td>US10</td>
<td>Bronze</td>
</tr>
<tr>
<td>10B</td>
<td>Oil Rubbed Bronze</td>
<td>613</td>
<td>US10B</td>
<td>Bronze</td>
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<tr>
<td>26</td>
<td>Polished Bright Chrome</td>
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<td>Brass</td>
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<td>Satin Chrome</td>
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<tr>
<td>32</td>
<td>Polished Bright Stainless</td>
<td>628</td>
<td>US32</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>32D</td>
<td>Satin Stainless</td>
<td>630</td>
<td>US32D</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>
Trim Selection
CLUTCH CYLINDRICAL LEVER

Non-handed Grade 1 (Clutch Style)
Cylindrical body hardened steel heavy duty tailpiece. For 1 ¾” and 2 ¼” doors. Prefix THI before Part # for 2 ¼” door thickness. Available for fire and non fire rated rim and vertical rod exit devices.
Rose diameter 3 ½”, lever length 4 ¾”. Fits and covers 161 cutout.

Finishes: Architectural plated finishes.

ENT00L or
ICENT00L or
ICSCENT00L4
SARICENT00L (Sargent)
RUSICENT00L (Corbin/Russwin)
YALICENT00L (Yale)

8000K

STR05L or
ICSTR05L or
ICSCSTR05L4
SARICSTR05L (Sargent)
RUSICSTR05L (Corbin/Russwin)
YALICSTR05L (Yale)

PAS30L

DUM40L

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

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


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

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

Other Lever Trim Designs

TUB DESIGN

AT DESIGN

SPA DESIGN

8000K
Trim Selection

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

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 ENTRANCE
ICHDESC-00 Clutch Entrance, key locks or unlocks escutcheon trim
ICSCHDESC-00 ANSI FUNCTION (63) Operates as classroom function
HDTSESC-00
ICHDTSESC-00
ICSCHDTSESC-00

HDESC-05 or STOREROOM
ICHDESC-05 Clutch Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked
ICSCHDESC-05 ANSI FUNCTION (04)
HDTSESC-05
ICHDTSESC-05
ICSCHDTSESC-05

HDESC-30 PASSAGE
HDTSESC-30 Trim always operable and free
ANSI Function (62)

HDESC-40 DUMMY
HDTSESC-40 Dummy Escutcheon trim ANSI FUNCTION (10)


FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 38

(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
RIGID LEVER ESCUTCHEON

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 ⅞” 161 cutout

NESC9800 or ICNESC9800 or ICSCNESC9800
ENTRANCE
Rigid Entrance, key locks or unlocks escutcheon trim
ANSI FUNCTION (63) Operates as classroom function

NESC9805 or ICNESC9805 or ICSCNESC9805
STOREROOM
Rigid Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked
ANSI FUNCTION (04)

NESC9830
PASSAGE
Trim always operable and free
ANSI Function (62)

NESC9840
DUMMY
Dummy Escutcheon trim ANSI FUNCTION (10)

TO ORDER other lever design insert “AT” or “RL” before “ESC”:
e.g. ATESC9800 for ESC9800 with AT design or RLESC9800 for ESC9800


FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 38

(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 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.

THUMBPIECE TRIM
(OPERATES ON RIM & VERTICAL ROD DEVICES)

9800 NL
IC9800NL
ICSC9800NL

FOR RIM DEVICES ONLY
Outside by pull only.
Pull when dogged.
ANSI function – 02
Covers 161 cutout
KEYWAY
Standard 6-Pin solid brass "C" keyway Rim Cylinder included.
FINISHES
Architectural plated finishes.

KEYED
9800 DTP
Outside by pull only.
Pull when dogged.
ANSI function – 02
Covers 161 cutout

DUMMY
9800 EOP
Outside by plate only.
ANSI function – 10
Covers 161 cutout

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, Kaba and Cal-Royal HSK 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. Corbin, Sargent and Yale format also available.

FINISHES
Architectural plated finishes.
Electrified Lever Trim
GRADE 1 Rim and Vertical Rod Type Exit Device

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) 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)

<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 “ESC98”, “ATESC98”, “RLESC98”, “TUBESC98”
e.g. FSE24ATESC98 for ESC98 in AT design or FSE24RLESC98 for ESC98 in RL design

TO ORDER heavy duty design add HD or TS to Item#
e.g. FS12HD or FS12TS
(ELR) Electric Latch Retraction

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 9800 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 #

Note: When using electrified hinge, you must use prefix ELELRn + hinge item code, where “n” is equal to number of wires. For example: ELELR4 + BB31.

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: - RX9800......................Request to Exit switch for field installation
LX9800....................Latch bolt Monitoring switch for field installation
LXRX9800....................Latch bolt Monitoring/Request to Exit Combination
Heavy Duty Digital Exit Trims

**MECHANICAL CRCODE101**

**Features**
- Heavy Duty
- Designed for 7700 and 9800 Series
- 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

**CR4000 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 CRCODE204**

**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 ¾” - 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](http://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.

**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
  - No hassle 2-year warranty

**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”

**CRPS5** (5 Amps, 1 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 – 24 VDC @ 2.5A
  - 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 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 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.

**CRPSW3**
- **Features:**
  - Adjustable output voltage
  - (22-27V under load)
  - No hassle 2-year warranty

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

The CRPSW3 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 CRPSW3 supplies 2.4A @ 27VDC and provides (3) non-fused outputs. The CRPSW3 comes housed in a 10” x 10” x 4” sturdy metal enclosure.

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

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.

**CRPS5-4** (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
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..................... Steel

Chassis Cover................. Stainless Steel or Non-ferrous plated material

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

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

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.......... FMCVR9800 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 the 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</th>
<th>ACTUAL LENGTH</th>
<th>MAX CUT DOWN</th>
<th>DOOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>M98CVR3684, FM98CVR3684,</td>
<td>32&quot;</td>
<td>6&quot;</td>
<td>30&quot; to 36&quot; door width</td>
</tr>
<tr>
<td>M98CVR3696, FM98CVR3696,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M98CVR36120, FM98CVR36120</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M98CVR4896, FM98CVR4896,</td>
<td>44&quot;</td>
<td>12&quot;</td>
<td>36&quot; to 48&quot; door width</td>
</tr>
<tr>
<td>M98CVR48120, FM98CVR48120</td>
<td></td>
<td></td>
<td></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
WCVR9800 & FWCVR9800 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......................... Steel
Chassis Cover....................... Stainless Steel or 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............... FWCVR9800 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</th>
<th>ACTUAL LENGTH</th>
<th>MAX CUT DOWN</th>
<th>DOOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>W98CVR3684, FW98CVR3684, W98CVR3696, FW98CVR3696, W98CVR36120, FW98CVR36120</td>
<td>32&quot;</td>
<td>6&quot;</td>
<td>30&quot; to 36&quot; door width</td>
</tr>
<tr>
<td>W98CVR4896, FW98CVR4896, W98CVR48120, FW98CVR48120</td>
<td>44&quot;</td>
<td>12&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
MCVR9800, FMCVR9800, WCVR9800 & FWCVR9800
Concealed Vertical Rod Exit Devices For Wood and Metal Doors

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

(ICSC) INTERCHANGEABLE CORE: Indicates function available with Schlage Full Size Format Interchangeable Core. Corbin, Sargent and Yale formats 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>
MR9800 & FMR9800 Series
AMR9800 & AFMR9800 ADA Series
GRADE 1, Mortise Lock Exit Device

Specifications
For Doors: Wood / Metal 1 ¾" (44.5 mm) minimum thickness
4 ½" (114 mm) minimum stile width
ADA Series: Prefix “A” before the MODEL #
Chassis: Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
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
ANSI Standard: A156.3, Grade 1
Strikes: Standard ANSI strike
Fire Exit Hardware: FMR9800 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" (44.5 mm) 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>MR9800EO36, FMR9800EO36</td>
<td>32&quot;</td>
<td>6&quot;</td>
<td>30” to 36” door width</td>
</tr>
<tr>
<td>MR9805EO36, FMR9805EO36</td>
<td>44&quot;</td>
<td>12”</td>
<td>36” to 48” door width</td>
</tr>
</tbody>
</table>

*Add prefix “A” before MODEL # for ADA Exit Devices.

*Americans with Disability Act (ADA) compliant
5 lbs opening force on ADA Series only
*Refer to the Price List for Stock Sizes and Finishes

OPTIONAL OPEN BACK STRIKE

CAL-ROYAL
PRODUCTS, INC.
USA

(800) 876-9258 | www.cal-royal.com | OCT 2017
MR9800 & FMR9800 Series
GRADE 1 Mortise Lock Exit Device

Trim Selection

Escutcheon Lever Design

FINISHES
Architectural plated finishes

DOOR THICKNESS
Standard 1 ¾”

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

- MRESC-00 or MRESC00TS or ICMRESC-00 or ICSCMRESC-00 or ICMRESC-00TS
  - ENTRANCE
  - Key locks or unlocks lever
  - Operates as classroom function
  - ANSI FUNCTION (63)

- MRESC-05 or MRESC05TS or ICMRESC-05 or ICSCMRESC-05 or ICMRESC-05TS
  - STOREROOM
  - Key retracts latch bolt, otherwise always locked
  - ANSI FUNCTION (04)
  - *MUST USE MR98005EO36/48 Mortise Rim Exit

- MRESC-30 or MRESC30TS
  - PASSAGE
  - Trim always operable and free
  - ANSI FUNCTION (62)
  - *MUST USE MR98005EO36/48 Mortise Rim Exit


- (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.

**IMPORTANT: MR9800 and FMR9800 Mortise Lock case comes standard with exit device. (TRIMS SOLD SEPARATELY)**

### MORTISE LOCK CASE ELECTRIFICATION OPTION:
SPECIFY ITEM# UPON ORDERING
(MORTISE LOCK CASE COMES STANDARD WITH EXIT DEVICE)

<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 MRESC-00 Trim.*

(800) 876-9258 | www.cal-royal.com | OCT 2017
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 for 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 ............................. GLS9800 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>State</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neutral</td>
<td>2 3/4&quot; (70 mm)</td>
</tr>
<tr>
<td>Depressed</td>
<td>1 ¾&quot; (48 mm)</td>
</tr>
</tbody>
</table>

Center case 8 ¾" x 1 ½" x 2" (205 mm x 29 mm x 51 mm)

MODEL  ACTUAL LENGTH  MAX CUT DOWN  DOOR SIZE
GLS9800EO36  34 ⅞"          10"           30" to 36" width
GLS9800EO48  46 ⅞"          12"           36" to 48" width
GLSCVR9800 & FGLSCVR9800 Series
GRADE 1 Concealed Vertical Type, Narrow Stile Exit Device
Optional Less Bottom Rod (LBR)

Specifications
For Doors............................ Metal or Aluminum Glass doors with 1 ¾” 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............ GLSCVR9800 Series for Panic & Safety for all types of 4’ x 8’ single doors and 8’ x 8’ double doors for Panic & Safety. FGLSCVR9800 Series for all types 6’ x 7’ pair of doors for up to 3 hour fire labelled installations. Conforms to standards UL10C and UBC-7-2-1997
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 2 3/16” (70 mm)
Depressed 1 3/4” (48 mm)
Center case 8 3/16” x 1 15/16” x 2” (205 mm x 29 mm x 51 mm)

MODEL ACTUAL LENGTH MAX CUT DOWN DOOR SIZE
GLSCVR983684, FGLSCVR983684 34 7/16” 6” 30” to 36” width
GLSCVR984884 46 11/32” 18” 30” to 48” width
# 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.
- Standard 6-Pin Schlage “C” Mortise Cylinder included.

### DOOR THICKNESS
Standard 1 ¾”

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

### Trim Selection

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLSRIM9800</td>
<td>ENTRANCE</td>
<td>Clutch free-wheeling Entrance, key locks or unlocks escutcheon</td>
</tr>
<tr>
<td>GLSCVR9800</td>
<td></td>
<td>trim ANSI FUNCTION (63) Operates</td>
</tr>
<tr>
<td>ICGLSRIM9800</td>
<td></td>
<td>as classroom function</td>
</tr>
<tr>
<td>ICSCGLSRIM9800</td>
<td></td>
<td>CVR is used for Concealed Vertical Rod Exit Device</td>
</tr>
<tr>
<td>ICGLSCVR9800</td>
<td></td>
<td>RIM is used for Rim Type Exit Device</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLSRIM9805</td>
<td>STOREROOM</td>
<td>Clutch free-wheeling Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked</td>
</tr>
<tr>
<td>GLSCVR9805</td>
<td></td>
<td>ANSI FUNCTION (04)</td>
</tr>
<tr>
<td>ICGLSRIM9805</td>
<td></td>
<td>CVR is used for Concealed Vertical Rod Exit Device</td>
</tr>
<tr>
<td>ICGLSCVR9805</td>
<td></td>
<td>RIM is used for Rim Type Exit Device</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLSRIM9830</td>
<td>PASSAGE</td>
<td>Trim always operable and free</td>
</tr>
<tr>
<td>GLSCVR9830</td>
<td></td>
<td>ANSI FUNCTION (62)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CVR is used for Concealed Vertical Rod Exit Device</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RIM is used for Rim Type Exit Device</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLSRIM9840</td>
<td>DUMMY</td>
<td>Dummy Escutcheon trim ANSI FUNCTION (10)</td>
</tr>
<tr>
<td>GLSCVR9840</td>
<td></td>
<td>CVR is used for Concealed Vertical Rod Exit Device</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RIM is used for Rim Type Exit Device</td>
</tr>
</tbody>
</table>

### KEYWAY:

**(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 GLS9800 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

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, Kaba and Cal-Royal HSK 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. Corbin, Sargent and Yale format also available.

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# Strike & Accessories

## Strikes for use with 9860 vertical rod exit device

<table>
<thead>
<tr>
<th>Strike</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>221</td>
<td>Standard for 9860. Applied to surface of floor or to a flat threshold. Standard packaging.</td>
</tr>
</tbody>
</table>

## Strikes for use with 9800 rim type exit device

<table>
<thead>
<tr>
<th>Strike</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>239</td>
<td>For 9800 &amp; F9800 surface applied. Standard packaging.</td>
</tr>
</tbody>
</table>

## Strikes for use with F9860 vertical rod fire exit device

<table>
<thead>
<tr>
<th>Strike</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>245</td>
<td>For F9800 surface applied. Standard packaging.</td>
</tr>
<tr>
<td>246</td>
<td>Used on frames with blade stop or integral stop. Surfaced applied or mortised. Standard packaging.</td>
</tr>
<tr>
<td>247</td>
<td>Applied to surface of stop. No mortise required.</td>
</tr>
</tbody>
</table>

## Strikes for use with GLS9800 Narrow Stile Exit Device

<table>
<thead>
<tr>
<th>Strike</th>
<th>Description</th>
</tr>
</thead>
</table>

## Overlapping Strikes

<table>
<thead>
<tr>
<th>Strike</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N251</td>
<td>Surface applied. Used on inactive leaf for device on active leaf of pair of doors without Mullion.</td>
</tr>
</tbody>
</table>

---

**RIM238**

Strike for 2 3/8" Backset Application

**260 TOP STRIKE**

**265 BOTTOM STRIKE**

**245**

For F9800 surface applied. Standard packaging.

**Strike for ADA9800 exit devices**

**ADA Roller Strike for 2200 and 9800 exit devices**
## Accessories

### LFF

<table>
<thead>
<tr>
<th>Lock front filler</th>
</tr>
</thead>
</table>

### SF

<table>
<thead>
<tr>
<th>Strike filler</th>
</tr>
</thead>
</table>

### GLASS BEAD SHIM KITS

| 801 – For rim type, ⅛" thick |
| 806 – For vertical type, ⅛" thick |
| 812 – For fire rated type, ⅛" thick |

### CYLINDER DOGGING KITS

**TO ORDER:** Prefix “CD” before PART #. Available for all 9800 Series devices except fire exit hardware. Cylinder dogging with mortise cylinder is located on the mounting insert lock bolt in retracted position.

**KIT ONLY:** Use PART # 36CD9800 for 36” and 48CD9800 for 48” devices. Specify finish.

- **(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.
## Fire Exit Hardware Selector

### FIRE EXIT HARDWARE RATING

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>MODEL #</th>
<th>MAXIMUM DOOR OPENING</th>
<th>UL DOOR RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE DOORS</td>
<td>MODEL #</td>
<td>MAXIMUM DOOR OPENING</td>
<td>UL DOOR RATING</td>
</tr>
<tr>
<td>Rim type</td>
<td>F9800EO36</td>
<td>4'0&quot; X 8'0&quot;</td>
<td>✔️</td>
</tr>
<tr>
<td>F9820EO48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAIRS OF DOORS</td>
<td>MODEL #</td>
<td>MAXIMUM DOOR OPENING</td>
<td>UL DOOR RATING</td>
</tr>
<tr>
<td>Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix LBR before Part #</td>
<td>F9860V3684 X F9860V3684</td>
<td>8'0&quot; X 7'2&quot;</td>
<td>✔️</td>
</tr>
<tr>
<td></td>
<td>F9890V3696 X F9890V3696</td>
<td>8'0&quot; X 8'0&quot;</td>
<td>✔️</td>
</tr>
<tr>
<td></td>
<td>F9880V4896 X F9880V4896</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAIRS OF DOORS</td>
<td>MODEL #</td>
<td>MAXIMUM DOOR OPENING</td>
<td>UL DOOR RATING</td>
</tr>
<tr>
<td>Two rim type with Mullion</td>
<td>F9800EO36</td>
<td>8'0&quot; X 8'0&quot;</td>
<td>✔️</td>
</tr>
<tr>
<td>F9820EO48</td>
<td></td>
<td></td>
<td></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. Includes ADA Series.

### HOW TO ORDER INFORMATION

Exit device model number

<table>
<thead>
<tr>
<th>Panic grade</th>
<th>Fire grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>9800 EO36 Rim type 36&quot; door</td>
<td>F9800 EO36 Rim type 36&quot; door</td>
</tr>
<tr>
<td>9820 EO48 Rim type 48&quot; door</td>
<td>F9820 EO48 Rim type 48&quot; door</td>
</tr>
<tr>
<td>9860 V3684 Vertical rod type 36&quot; x 84&quot;</td>
<td>F9860 V3684 Vertical rod type 36&quot; x 84&quot;</td>
</tr>
<tr>
<td>9890 V3696 Vertical rod type 36&quot; x 96&quot;</td>
<td>F9890 V3696 Vertical rod type 36&quot; x 96&quot;</td>
</tr>
<tr>
<td>9880 V4896 Vertical rod type 48&quot; x 96&quot;</td>
<td>F9880 V4896 Vertical rod type 48&quot; x 96&quot;</td>
</tr>
<tr>
<td>VRRD10 – Rod for 10' non-rated door</td>
<td>F9850 V36120 Vertical rod type 36&quot; x 120&quot;</td>
</tr>
<tr>
<td>9850 V36120 Vertical rod type 36&quot; x 120&quot;</td>
<td>F9840 V48120 Vertical rod type 48&quot; x 120&quot;</td>
</tr>
<tr>
<td>9840 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 ADA option if needed.
3) Specify trim selection. For interchangeable core prefix "IC" before Part #. See trim selection pages.
4) For vertical rod devices specify LHR (Left Hand Reverse) or RHR (Right Hand Reverse) for convenience easily field reversible, otherwise shipped as LHR.
5) Specify finish: US10B, 32D. See Page 33
6) 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: 9800E036 ALUM X SBN X ENT00L 26D F9880V4896 10B X ICSTR05L 10B

---

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## 9800 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>Vertical rod type or Rim type</td>
<td>Surface applied 2 point lock. Surface application.</td>
</tr>
<tr>
<td>2 Vertical rod type</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>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>HANDBING</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Vertical rod type</td>
<td>Double egress surface applied. 2 point locking both doors opposite directions.</td>
</tr>
</tbody>
</table>

### HANDBING

- **Left Hand Orientation** (LHR)
  - (Left hand reverse)
  - OUTSIDE
- **Right Hand Orientation** (RHR)
  - (Right hand reverse)

---

**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>