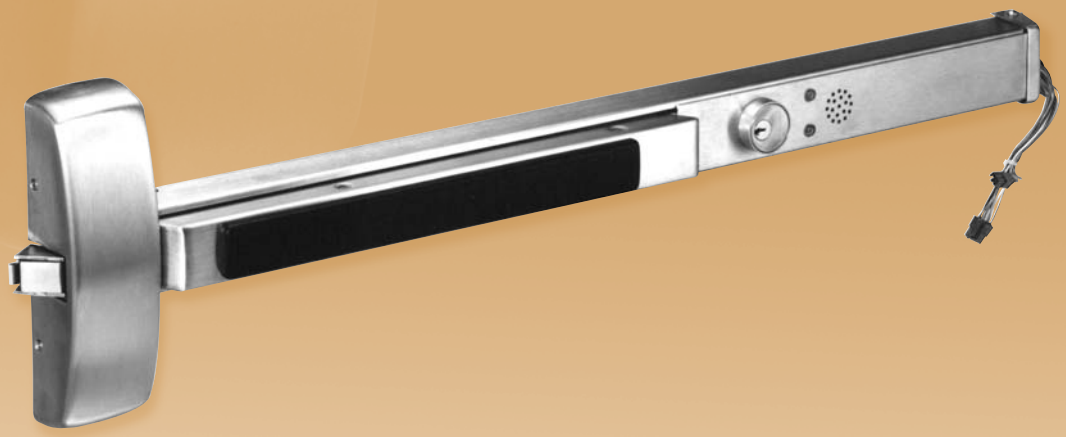
SARGENT®

ELECTROGUARD®



An ASSA ABLOY Group company

ASSA ABLOY

Electroguard®
59- Prefix Delayed Egress Exit Devices

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Schools, nursing homes, shopping centers and libraries are required by Fire and Life Safety codes to provide readily available egress in case of fire or emergency. These requirements, while necessary for the safety of the building's occupants, compromise the building's security.

The Electroguard® Delayed Egress Exit Device balances these needs by providing a delay before allowing egress. When armed using the cylinder in the rail and the push rail depressed for more than 1 second, a warning horn sounds and the opening remains locked for an additional fifteen seconds. This time delay allows for an appropriate response to the pending violation. At the end of the fifteen second period, the rail is released and functions as a standard exit device, allowing for free egress.

When integrated with a building's central fire system, the Electroguard® will provide immediate release upon signal by the system.

With the appropriate outside trim, free ingress is allowed for up to ten seconds. If the latchbolt is retracted for more than ten seconds, the unit will go into an irreversible alarm condition. This feature prevents latchbolt tampering. If more than ten seconds is needed, an external inhibit control such as a key switch, card reader, key pad, etc. can be used to extend this delay.

Momentary release by key (field adjustable for 5, 10, 20 or 40 seconds) for authorized egress is provided by the cylinder in the rail assembly. Maintained egress mode allows for convenient daytime use as a standard exit device. Standard inputs allow for easy integration of the Electroguard® with a variety of options e.g. (remote alarm, door position, external inhibit, voice output, latchbolt status, gang release and external magnetic lock.)

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On The Cover

- 59-8810 Rim Exit Device

Electroguard® Features

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Features

- Available for most 80 Series rim, surface vertical rod, concealed vertical rod and mortise exit devices; standard and narrow designs
- All exit devices meet ANSI standard 156.3, Grade 1
- Self contained delayed egress system within the rail assembly, external magnetic lock outputs available for extra high security
- 80dB horn enclosed in rail assembly
- All locking contained within the rail assembly of the exit device for delayed action feature
- Standard size 41 mortise cylinder, located in the rail assembly provides momentary or maintained egress with key
- Momentary egress adjustable, 5, 10, 20, or 40 seconds
- Latchbolt monitoring for rim and mortise type devices; rod monitoring for vertical rod devices
- Depressing the push rail for one second or longer initiates an irreversible alarm until the alarm is disarmed with a key in the rail assembly
- Field adjustable nuisance delay can be either 0 (alarm sounds immediately) or 1 second (slight delay before unit goes into alarm)
- Provides standard fifteen second delay on egress. Thirty second available. Written permission from Authority Having Jurisdiction required.
- When Electroguard® is installed with building's fire alarm system, a relay in the delayed action circuit voids the delay, allowing immediate egress
- Red and green LED's in rail assembly insert, indicate status of Electroguard®
- Electrical requirements
  – 24VDC filtered and regulated
  – .2 Amp. typical
  – .5 Amp. all features
- Output relay, Form C 1 Amp. at 24VDC
- Complies with FCC 15B, IEC61000-4-2, 4-3 and 4-4 for electromagnetic emissions and immunity
- Operating temperature: 10°F to 120°F (-14°C to 49°C)
- Power supplied through continuous circuit hinge (4 wire min. to 12 wire max.)

Feature Descriptions

• **Fire Alarm (N.C.) Contact**	Allows the push rail to unlock upon a signal from the building's fire alarm system. When the fire alarm is activated, the push rail releases, Status LED is activated and horn is disabled.
• **Remote Alarm**	A SPDT relay contact, rated 1 amp @ 24VDC will close during an alarm condition. These contacts can be used to operate an LED, horn, or other monitoring device.
• **Key Cylinder**	The 41 size cylinder located in the rail assembly of the exit device is used to activate or deactivate the delayed egress system. Will accept most standard SARGENT key systems, SFIC, Removable core, construction keying and Masterkeying.
• **Door Position Input**	A door position switch (3287) or monitor hinge may be connected to the Electroguard® to signal the circuitry that the door is open, sounding the alarm in the rail. When this input is used, the Electroguard® cannot be armed when the door is open.
• **External Inhibit Input**	Allows the unit to be disarmed remotely by a key switch, key pad or card reader. When in armed condition, the alarm can be reset from a remote location.
• **Authorized Entry**	When using an outside trim to retract the latchbolt, a preset time of ten seconds is allowed before the alarm will sound. If more or less time is required, use external inhibit input.
• **Voice Output**	A SPDT relay contact, rated 1 amp @ 24VDC allows a Voice Module (3071/3072) to be tied into Electroguard® providing a standard message: "Emergency Exit Only—Door can be opened in 15 seconds." This message repeats for 20 seconds. Other custom messages available, consult factory. Other signalling devices (such as strobe lights) may be used.
• **Latchbolt Status**	A SPDT relay contact, rated 1 amp @ 24VDC from the Electroguard® which provides an indication to a remote monitoring panel when the latchbolt is retracted or extended.
• **Gang Release**	Allows release of delayed action function for a bank of doors when any door in the bank goes into alarm or the external inhibit is triggered. Once external inhibit is triggered, bank of doors simultaneously releases and can be maintained in that state. Bank of doors must be operated by one power supply.
• **Signage**	"Emergency Exit Only — Push until alarm sounds. Door can be opened in 15 seconds." Provided standard with every Electroguard®. Dimensions: 22-1/2" (572mm) long x 7-3/4" (197mm) high (#68-0704).

BC- Prefix Option

The BC- Prefix for Electroguard™ indicates the unit has been programmed to comply with the section of BOCA code that relates to delayed egress.

This programming change allows for automatic rearming of the delayed egress unit. Under BOCA, the unit can automatically rearm thirty (30) seconds after the door has been cycled. If the door is opened any time during the thirty (30) second period, the timer in the unit resets and waits another thirty (30) seconds before rearming. This prefix requires a door position switch (3287) for proper operation.

Electroguard®
80 Series Mechanical Features

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SARGENT 80 Series Exit Devices

SARGENT manufactures a full line of exit devices that includes vertical rod, rim and mortise devices for both standard and narrow stile doors.

The SARGENT 80 Series provides a robust means to ensure safe egress from schools, auditoriums, public and commercial buildings during routine, daily activities and emergencies, while providing the highest level of security at the opening. Designed and manufactured to survive high use and abuse locations, SARGENT exit devices provide the best combination of **Simplicity, Strength, Durability, Aesthetics** and **Innovation** and are perfect for applications in commercial office buildings, medical and educational institutions.

Simplicity

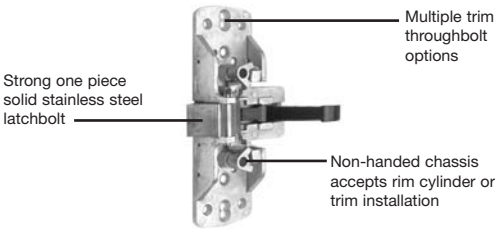
- Chassis, rail and rod assemblies are engineered with minimum components for reduced maintenance
- Modular design allows for phased component installation. Chassis assembly can be mounted separately to latch/secure the door during construction
- Simple installation, no periodic/preventative maintenance required to maintain warranty and proper functioning
- No need to remove device for keying

Strength & Durability

- Reinforced cast (ZA) alloy chassis – exceptional strength and durability. Withstands 2X more static load forces compared to a stamped steel chassis!
- Available to meet Dade County protocols and other local hurricane code requirements for high wind load and missile impact
- Tough, tapered Lexan touch pad and optional flush end cap for a durable, aesthetically pleasing design with reduced susceptibility to damage
- Exceeds ANSI/BHMA A156.3 2001 Grade 1 testing requirements
- Complies with NFPA 80 and 101
- UL and cUL Listed for Panic
- All fire exit hardware for hollow metal door applications listed up to 3 hour, "A" label
- All fire exit hardware for wood door applications listed up to 1-1/2 hour, "B" label
- Rail assemblies and end caps are brass bronze or stainless steel with all stainless steel springs
- 5 Year warranty

8800 Series Rim Device: The "Workhorse"

- 17 Functions, one chassis – the perfect stocking device!
- Only 7 components – less wear, less maintenance!
- ZA-27 Alloy chassis for exceptional strength and durability
- Endures over 8 times ANSI/BHMA standard of 500,000 cycles
- Non-handed
- Quick retrofit
- Simple door prep and installation!
- 5 year warranty



Electroguard®
80 Series Mechanical Features

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Aesthetics

- Clean, simple lines
- "True" architectural hardware finishes consistent with BHMA/ANSI standards
- Broad selection of trim, including Coastal Series decorative levers, that match other SARGENT lock product trim

Select Standard Trim

ET/Freewheeling ET

PTB
PSB

STS

MAL
MSL

FLL
FSL

FLW
FSW

PRK

Pulls: 862 – 1" x 10",
863 – 1" x 18",
864 – 3/4" x 10"

Auxiliary Control used with 862–864 pulls (specify)

Decorative Coastal Series Trim

Yarmouth

Coronado

Gulfport

Rockport

Sanibel

- Elegant trim designs that meet your design needs
- Strong and durable
- Solid cast or forged brass

Innovation

- Broad offering of electro-mechanical configurations offer higher security for the most demanding access/egress control applications. See Product System Manual
- Built in features to ensure quiet latchbolt operation
- Unique design of chassis, rail and outside trim protect components against vandalism, abuse and potential jobsite damage
- SARGENT uses engineered solutions and flexible manufacturing processes to accommodate special applications

ElectroLynx™

- ElectroLynx™ is a plug-in universal connector system that allows users to simply link together the wired components of a doorway, without cumbersome soldering or wire nuts
- As part of their promise to provide innovative, fast and effective, and higher security solutions to their customers, ASSA ABLOY Group companies offer ElectroLynx, a universal quick-connect system that simplifies the electrification of the door opening
- ElectroLynx™ is a registered trademark of ASSA ABLOY North America, Inc.

Look for the LYNX™

SARGuard Coating

- New finish coating available on all SARGENT product lines, utilizes a silver-based antimicrobial compound from AgION Technologies
- As an integral part of the finish coating, SARGuard lasts for the life of the hardware
- SARGuard coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. It is effective against a broad spectrum of bacteria.
- Non-toxic and completely safe. The Agion antimicrobial compound is EPA and NSF approved and FDA listed for use in medical and food preparation equipment.
- Applications: Anywhere there is need for a clean environment (hospitals, laboratories, schools, medical centers, daycare, food processing etc.)

The AgION antimicrobial is not intended as a substitute for good hygiene. Coated products must still be cleaned to insure the surfaces will be free of destructive microbes. SARGENT makes no representations or warranties, express or implied, as to the efficacy of the AgION antimicrobial. A copy of the AgION warranty is available upon request.

Security

- Double cylinder functions available
- Torx® and spanner screws
- Anti-vandal trim options
- Master keying with SARGENT Security key systems available (V-10, Signature, Keso, XC)

Note: For complete information, refer to the 80 Series Exit Devices catalog.

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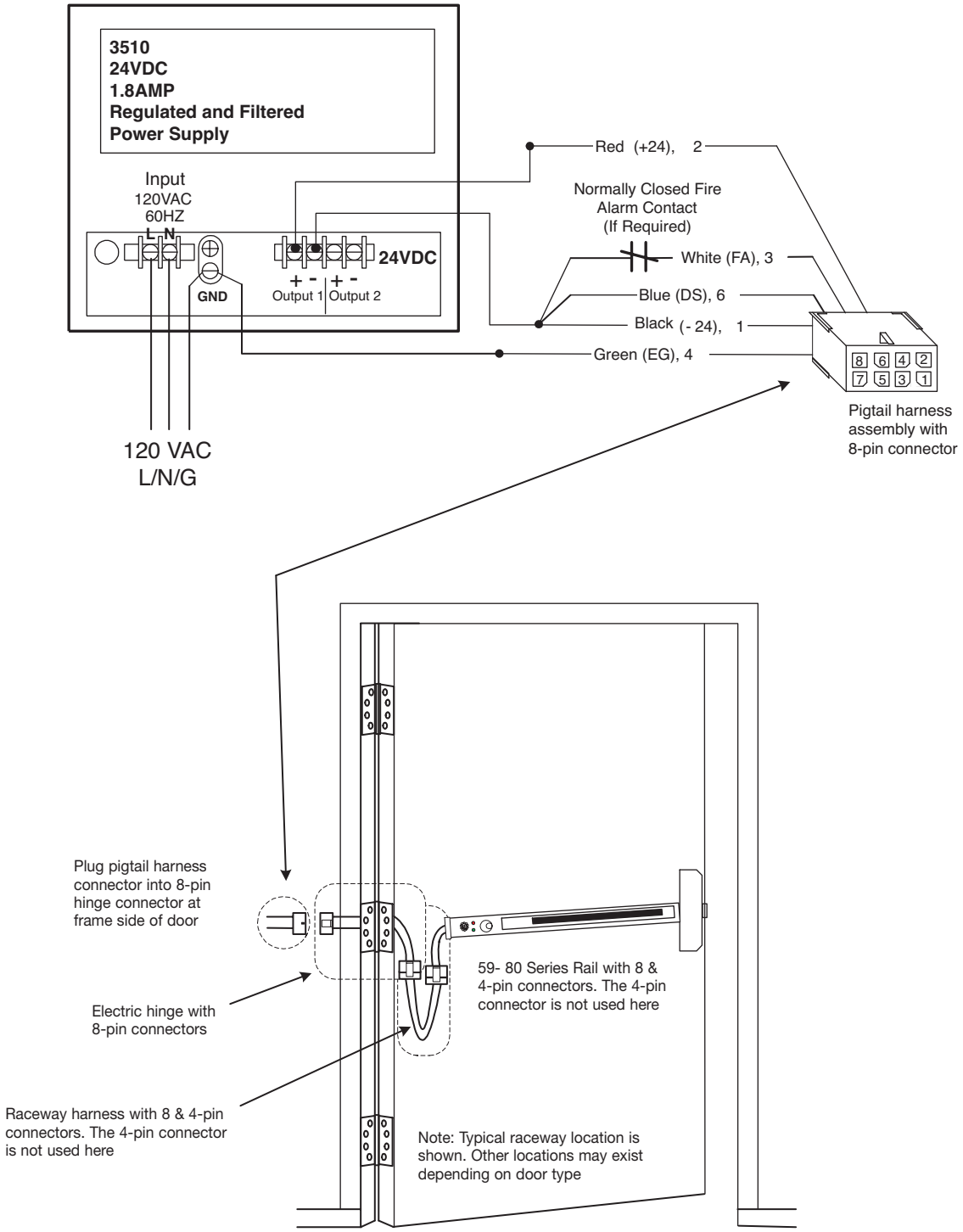
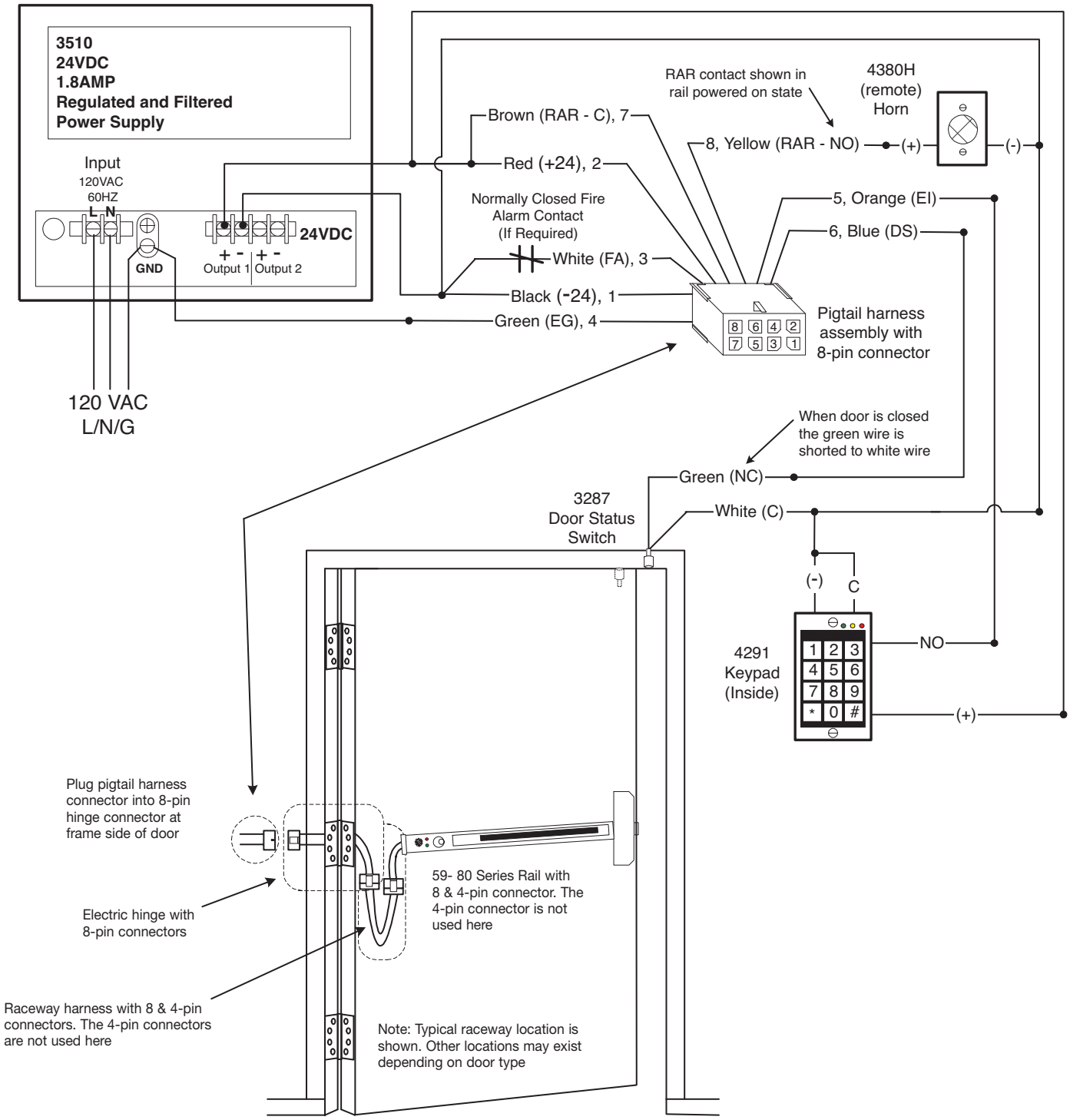
During a fire alarm condition, the fire alarm contact opens which de-energizes the rail magnet and allows immediate egress. Free entry is allowed, the unit will alarm if the door is held opened for 10 seconds or longer unless the unit is placed in maintained egress mode. In a fire emergency, free egress is immediately granted.



The following is a typical point-to-point wiring diagram for an Electroguard® application with inside Keypad, Fire Alarm, Door Status and Remote Horn. A valid code entry at the 4291 (Inside) keypad shunts the Electroguard exit device and allows egress for a time period programmable at the keypad. During a fire alarm condition, the contact opens which de-energizes the rail electromagnet and allows immediate egress. When the rail is armed and the door is forced open, the 3287 door status switch signals the rail, sounding the rail alarm. When the rail is armed and violated, the remote alarm relay sends 24VDC to the 4380H remote horn.



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TA2714QC Concealed Circuit Hinge

Back View

- 4-1/2" x 4-1/2" (114mm x 114mm) – CC4
- 1 amp capacity – low voltage 24V per circuit
- Full Mortise – steel base
- 4 wire
- 28 gauge wire
- Wires contained within hinge – invisible and tamperproof
- Available in PC or 26D
- TA2314QC – brass base in 26D only

TA714QC Concealed Circuit Hinge

Back View

- 4-1/2" x 4-1/2" (114mm x 114mm) – CC12
- 1 amp capacity – low voltage 24V per circuit
- 12 wire power transfer required when all options are used for Electroguard
- 28 gauge wire
- Wires contained within hinge – invisible and tamperproof
- Available in PC or 26D

3261 Armored Door Loop

- Used to transfer power when electric hinge is not practical (from frame to door stile)
- Used where Electroguard® requires maximum 3 wires
- 3 wire capability, 22 gauge in conduit
- 18" (457mm) armored loop cable
- 1/4" (6mm) diameter flex conduit

Power Supplies

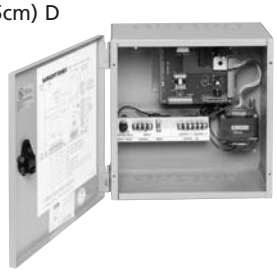
24-volt DC regulated and filtered SARGENT power supplies to power your electromechanical products.

3510

- 24VDC, 1.8 Amp.
- UL Listed for Class II applications
- Size: 8-1/2" (22cm) W x 10-1/8" (26cm) H x 4-1/8" (11cm) D

3530 Series

- 24VDC, 2 Amp.
- Contains SPDT relay which can be used for fire alarm tie in or auxiliary output relay
- UL Listed
- Size: 12" (30cm) W x 12" (30cm) H x 6" (15cm) D



3560

- 24VDC, 7.2 Amp.
- UL Listed
- Size: 12" (30cm) W x 16" (41cm) H x 6" (15cm) D

735 Battery Backup Kit

- For use with 3532 and 3533 power supplies only
- Includes battery backup module and battery pack
- 10 amp hour capacity
- Requires larger case

Electroguard® Accessories

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3287 Door Status Switch

- Can be used with Electroguard® to indicate when door is open to circuitry
- SPDT concealed switch (3 wire)
- Rated .25 amp @ 24VDC
- Requires 1" (25mm) diameter hole

4370 Key Switch

- Used for external inhibit option on Electroguard
- Contains one SPDT maintained switch to de-energize device for prolonged periods
- Face plate dimension: 4-1/2" x 2-3/4" (114mm x 70mm)
- Two LEDs indicate status: 4370L
- Contacts actuated only when key is in the cylinder and turned
- Recommend Appleton 4CS or RACO 670 Junction Box (4" [114mm] x 2-1/8" [54mm] x 1-7/8" [48mm])

4291 Indoor Key Pad

4291 Shown

- Used for external inhibit option on Electroguard® device
- Single door application
- 15 user codes (1-6 digits)
- One master code (1-6 digits)
- Momentary control adjustable (1-90 seconds)
- Maintained control - infinite
- 24VDC regulated input voltage
- Control output: 1 SPDT 5 amp, 28VDC
- Face plate dimensions: 4-1/2" x 2-3/4" (114mm x 70mm)
- 4291 Indoor Keypad
  - Designed for indoor use
  - Recommended Slater SI-18W outlet box
- 4292 Outdoor Keypad
  - Weather resistant. Not for use in direct rain
  - Designed for outdoor use (-20°F to 130°F)
  - Recommended SARGENT 4352 outlet box or Waxman 35-276

4371LT Key Switch

- Used for external inhibit option on Electroguard
- Contains one SPDT switch w/electric time delay (adj. 5-120 seconds)
- Two LEDs indicate status
- Face plate dimension: 4-1/2" x 4-1/2" (114mm x 114mm)
- Recommend Appleton 132 or Raco 680 Junction Box (4" [102mm] x 4" [102mm] x 2-1/8" [54mm])

4352 Junction Box

- Designed for use with 4292
- 4-5/8" (117mm) H x 2-7/8" (73mm) W x 2" (51mm) D
- Aluminum

3071 Flush Mounted & 3072 Surface Mounted Voice Modules

3071 Shown

The voice module is used with the Electroguard to provide voice notification that the Electroguard exit device is being violated. This is beneficial for the visually impaired when they are unable to read the sign at the door.

- Standard message is "Emergency Exit Only – Door can be opened in fifteen seconds."
- High impact thermoplastic housing
- Volume adjustment from 64dBA to 88dBA at 10 feet
- Usually mounted on wall near door
- Operating temperature: -31°F to 161°F
- Operating current: 70mA @ 24VDC
- Mounting Accessories
  - Junction Box for 3071 — Federal Signal FBL (SARGENT 52-0070)
  - Junction Box for 3072 — Federal Signal NBL (SARGENT 52-0071)

Note: For complete line of switch options, consult Product System Manual.

2.01 DELAYED EGRESS EXIT DEVICES

A. Delayed egress exit devices shall be Electroguard® Series push rail devices as manufactured by SARGENT Manufacturing Company, New Haven, CT.

B. Delayed egress exit devices shall be certified to meet or exceed the requirements of ANSI/BHMA A156.3 Grade 1.

C. Delayed egress exit devices shall be listed by Underwriters Laboratories for panic and bear the UL label for life safety in full compliance with NFPA 80 and NFPA 101. Exit devices for fire labeled doors shall be UL listed as "Fire Exit Hardware".

D. The delayed egress system shall meet all requirements as set forth in ANSI/NFPA 101 Life Safety Code for Special Locking Arrangements.

E. Exit devices shall comply with UL10C and UBC 7-2 positive pressure requirements.

F. Construction:

1. Chassis shall be of heavy duty cast design with one piece drawn non-ferrous removable covers matching the material of the push and mounting rails.
2. Stamped steel chassis are not acceptable.
3. Mounting rails shall be formed from a solid single piece of stainless steel, brass or bronze no less than 0.072 inches thick.
4. Push rails shall be constructed of 0.062 inch thick material in the same manner as the mounting rail. Painted or anodized aluminum shall not be considered heavy duty and are not acceptable.
5. Provide protective Lexan touchpad on the exit device push rail to prevent scratches and serve as a visible guide to the user.
6. Metal end caps shall be formed from the same base metal as the push and mounting rails.

G. Exit devices shall have a maximum of 3 inches projection from the face of the door in the non-dogged position. When in the dogged position, the device shall have no more than a 2-1/8 inch projection from the door face.

H. The design of the exit device shall eliminate the necessity of removing the device from the door for standard maintenance or keying changes.

I. The device chassis shall be mounted and operable without the need of the rail or the chassis cover.

J. Trim shall be thru-bolted.

K. Devices shall be available with matching trim for both wide and narrow stile doors.

L. Exit device operating lever trim shall withstand 1100 inch pounds of torque without allowing access.

M. Lever trim shall be available in architectural finishes and designs to match that of the locksets specified.

N. Delayed egress devices shall have a two year limited warranty.

Electroguard®
General and Ordering Information

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Compatible Exit Device Prefixes Available

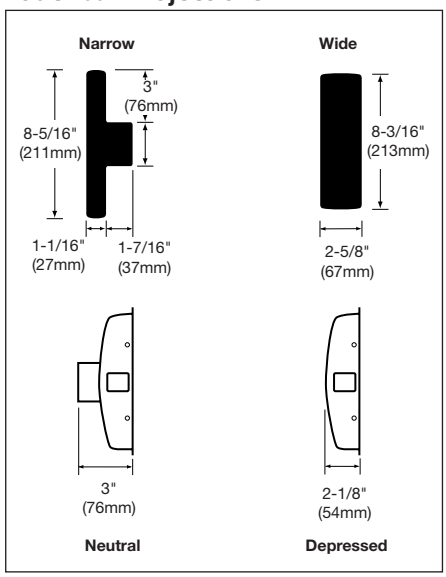
10	Signature System
10-UL	Signature, meets UL437 cylinder
11+	SARGENT XC Key System
12	UL Fire Label Exit Devices
19	Pushbar without Lexan touchpad
21	Construction Keying Conventional, XC and Signature Series
22	Construction Keying Conventional Cylinders (Existing Systems Only)
23	ANSI flat lip strike (8300 & 8900, including 12 Prefix)
31	Panel inside, outside or door over 2-1/4" to 3-1/8" thick
36	6 Lobe security head screws
37	Spanner head screws
43	Flush End Cap
54	Internal Micro Switch in ET Control except on WD8600, MD8600, 8400, 8500
*59	Electroguard®
60	Disposable Construction Core
63	Exit Device x Sargent Removable Core Cyl. Includes masterkeying, grand masterkeying
64	Exit Device x SARGENT Removable Construction Core Cylinder
65-73	6 Pin Uncombinated Small Format Interchangeable Cores
65-73-7P	7 Pin Uncombinated Small Format Interchangeable Cores
70	Exit Device to accept Small Format Interchangeable Cores - no core provided
72	Exit Device to accept Small Format Interchangeable Cores - core provided
75	Warning inside, Abrasive strip on rail
76	Knurled Outside Lever
77	Warning inside and outside, Abrasive strip on rail, Abrasive Coating on Lever
82	Keso Security Cylinder
83	Keso Security Removable Core Cylinder
84	Keso Security Removable Construction Core Cylinder
BC	Boca Code
SC	Exit Device furnished in Schlage C Keyway
SE	Exit Device furnished in Schlage E Keyway
SG	SARGuard - Antimicrobial clear powder coat
VA, VC,	SARGENT V-10 Cylinders

How To Order

- Determine which accessories, if any, will be used

  Example: keypad, card reader, voice module, etc.
- Determine amperage requirements based on components used to determine proper power supply
- To determine electric hinge wire requirements, refer to sample application and feature descriptions

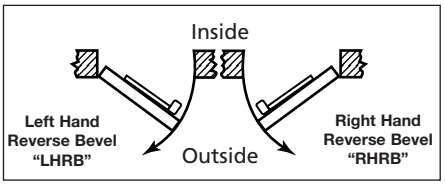
Cover Dimensions and Touchbar Projections



Finishes

US Finish	Description	ANSI/ BHMA
3	Polished brass, clear coated	605
4	Satin brass, clear coated	606
9	Polished bronze, clear coated	611
10	Satin bronze, clear coated	612
10B	Oxidized bronze, oil rubbed	613
10BL	Oxidized satin, bronze, clear coated	—
20D	Statuary dark bronze, clear coated	—
26	Polished chrome	625
26D	Satin chrome	626
32	Bright stainless steel	628
32D	Dull stainless steel	630

Hand



Rail Sizes

When ordering Electroguard Exit Devices, state door width. Each exit device is cut to order.

Minimum door widths: 36" (914mm)

Ordering Example

Specify	Note	Example
Prefix(s)	Signature/Electroguard	**10-59**
Series	Any 80 Series Exit	10-59-**8700**
Function	See Functions Chart	10-59-87**06**
Trim	ET by lever	10-59-8706**ETL**
Finish	Specify Finish	10-59-8706ETL x **US3**
Hand	Specify Hand	10-59-8706ETL x US3 x **RHRB**
Door Size	Door Width/Door Height	10-59-8706ETL x US3 x RHRB **36"W x 88"H**

For complete ordering information, consult 80 Series Exit Device catalog.

Notes:
- Electroguard not available with 16-, 55-, 56-, 57- or 58- prefixes
- All Levers except H-design may be milled
- 31-Prefix requires extended lip strike on 8300, 8900 Series
- SC-Prefix not available in 8375, 8376, 8976, 8904 ET, 8816, 8866
- For cylinder information, consult 80 Series Catalog, General Information

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SARGENT of Canada • Phone: 905-940-2040 • Fax: 905-940-3242 • Web site: www.sargentcanada.ca

Founded in 1864, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation and replacement applications. The company's customer base includes commercial construction, institutional and industrial markets.

The ASSA ABLOY Group is the world's leading manufacturer and supplier of locking solutions, dedicated to satisfying end-user needs for security, safety and convenience.