



Type No. \_\_\_\_\_

Job Name \_\_\_\_\_

Catalog No. \_\_\_\_\_



Shown: GXNRSC



# Guard-Lite Series

**Class I & II, Division 2, Single Face LED Exits**  
**Standard Self-Diagnostics Electronics\***  
**AC Only and Self-Powered**

## Housing

- Constructed of impact-resistant, fiberglass-reinforced polyester
- Housing color is gray with stainless steel hardware and clear polycarbonate cover
- Housing includes a one-piece formed gasket and corrosion-resistant hardware
- Standard internal or external mounting feet for installation flexibility
- UL listed for Class I, Division 2, Groups A, B, C & D; Class I, Zone 2, Groups IIA, IIB (+ H<sub>2</sub>) & IIC; and Class II, Division 2, Groups F & G
- Guard-Lite Series meets the Buy American requirements

## Illumination

- Illumination of the exit stencil face is accomplished with long lasting, high output LEDs, producing an average illumination level in excess of 25 ft (85.7 cd/m<sup>2</sup>) at the end of the 90 minute emergency run time

## Electronics

### AC Only

- 120/277 VAC dual voltage input with surge protection Emergency Operation
- Charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation
- See specification sheet L2465 for electronics details
- 120/277 VAC input, surge protection, brownout, AC lockout and low voltage disconnect are standard

### Smart Charger Self-Testing Diagnostics (optional)

- The Smart Charger diagnostic/charging platform with self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. A one-minute or 90-minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the optional IR test device.

## Battery

- Maintenance free, sealed nickel cadmium battery has an expected service life of 10 years, operating range of 65°F (19°C) to 85°F (30°C)
- Minimum 90 minutes of emergency power

## Electrical Specifications

### AC Only - Red or Green

- 120 VAC: 60 Hz, 0.032 A, PF = 0.95
- 277 VAC: 60 Hz, 0.014 A, PF = 0.88

### Self-Powered - Red or Green

- 120 VAC: 60 Hz, 0.048 A, PF = 0.90
- 277 VAC: 60 Hz, 0.023 A, PF = 0.90

## Code Compliance

- UL 924 and 844 listed
- NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- Temperature rating (T-Rating) 160° (T3C)
- Class I, Zone 2 T-Rating 200° (T3)
- IEC 61951-1 Life Testing (batteries)

## Warranty

- Electronics: 5 years full
- Battery: 5 years full, 5 years prorated

\*Self-powered models incorporate the Smart Charger diagnostics electronics package. Self-testing is a factory installed option.

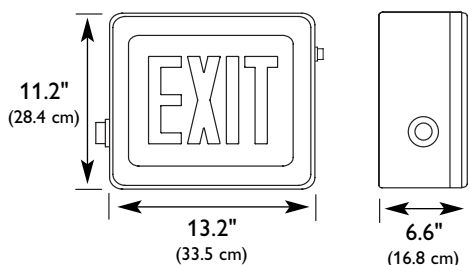
## Ordering Information

GX			SC	
SERIES	BATTERY	LETTER COLOR	MODEL DESIGNATOR <sup>1</sup>	FACTORY INSTALLED OPTIONS <sup>2</sup>
<b>GX</b> = Hazardous Location LED Exit	<b>A</b> = AC Only <b>N</b> = Nickel Cadmium	<b>R</b> = Red <b>G</b> = Green	<b>SC</b> = Smart Charger Diagnostic Electronics	<b>BF</b> = Buzzer/Flasher (self-powered models only) <b>BZ</b> = Buzzer (self-powered models only) <b>EX</b> = Special Input Transformer (specify voltage & frequency) <b>FA</b> = Fire Alarm Activated Flasher <b>FL</b> = Flasher (self-powered models only) <b>T</b> = Self-Testing Diagnostics (non-audible, self-powered models only) <b>TA</b> = Audible Self-Testing Diagnostics (self-powered models only)

**NOTES:** 1) For self-testing models refer to options. 2) Some option combinations may impact UL listing. Consult factory for specifics.

ACCESSORIES (Ordered Separately)
<b>SCIR</b> = Smart Charger Infra-Red Remote <b>WG5</b> = Wire Guard

## Dimensions



Dimensions are approximate and subject to change.

## Suggested Specification

Furnish and install LightGuard's LED exit sign model \_\_\_\_\_. The exit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and UL standard 844, and the National Electrical Code (NEC).

**INSTALLATION AND OPERATION** - Exit shall be easily field connected to a 120 or 277 VAC, 60 Hz, unswitched power source. Installation must comply with the NEC as well as other applicable codes. (Self-Powered Only) - Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination level for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

**ELECTRONICS AC-Only Models** - The exit sign shall be easily field connected to 120 or 277 VAC, 60 Hz un-switched power source. The HZ Series exit sign equipped with red or green LED's shall consume 0.032 A with a power factor of 0.95 (120 VAC) and 0.014 A with a power factor of 0.88 (277 VAC). Available factory-installed options shall include a fire alarm activated flasher option to accommodate an input from a fire alarm panel and provide a flashing rate when the alarm system is activated.

**Self-Powered Models** - All self-powered models shall be provided with LightGuard's Smart Charger diagnostics electronics platform. The exit sign shall be easily field connected to 120 or 277 VAC, 60 Hz un-switched power source. Smart Charger will detect and notify the installer regarding incorrect wiring of the transformer primary and restrict the damaging effects from affecting the printed circuit board. The Guard-Lite Series exit sign equipped with red or green LED's shall consume 0.048 A with a power factor of 0.90 (120 VAC) and 0.023 A with a power factor of 0.90 (277 VAC). The Smart Charger electronics package shall provide continuous, real-time monitoring of all the critical equipment functions including, but not limited to: line voltage status and condition, charger fault, transfer fault, battery fault, and LED load fault and notify personnel with a visual indicator sequence. Optional audible diagnostics as well as self-testing diagnostics shall be available from the factory. The self-testing option shall satisfy the periodic testing requirements in NFPA 101, Life Safety Code as well as the International Building Code (IBC). The Smart Charger circuit shall continuously sample ambient temperature conditions and adjust the charging regime to compensate for typical and dramatic ambient conditions to maximize the life of the battery. An on-board IR receiver shall be standard and pre-programmed to operate from an optional IR user interface device (available as an accessory item).

**BATTERY (Self-Powered Only)** - The battery shall be maintenance-free, sealed nickel cadmium utilizing sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 85°F (30°C). The battery shall be tested and recognized in accordance with the accelerated life testing requirements of the IEC standard 61951-1.

**ILLUMINATION** - The Guard-Lite Series LED exit signs shall incorporate high intensity LEDs. The LEDs shall be designed so that the unlikely failure of one LED will not affect the integrity of the total sign in the emergency mode. The Guard-Lite Series exit equipped with red or green LEDs shall consume 3.8 W (AC Only) or 5.4 W (Self-Powered). Average legend illumination shall be equal to or greater than 25 ft (85.7 cd/m<sup>2</sup>) at the end of the 90 minute emergency run time.

**ENCLOSURE** - The exit housing shall be impact-resistant, fiberglass-reinforced polyester gray enclosure and is UL listed for Class I, Division 2, Groups A, B, C & D; Class I, Zone 2, Groups IIA, IIB + (H<sub>2</sub>) & IIC; and Class II, Division 2, Groups F & G hazardous location areas. A one-piece formed gasket shall be included to eliminate potential for seal failure.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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