FEDERAL SIGNAL
Safety and Security Systems

Model 225XL
Electraray® Hazardous Location LED Warning Light

2561351 Rev F2 1123

Limited Warranty: This product's limited warranty can be found at www.fedsig.com/SSG-Warranty

SAFETY MESSAGES TO INSTALLERS AND USERS ⚠:
Products should be installed by a licensed electrician and follow all safety instructions. Failure to do so may result in property damage, serious injury, or death.

- To avoid electrical shock hazards, do not connect wires when power is applied.

- To be an effective warning device, this product produces bright light that could be hazardous to eyesight. Do not stare directly at the light. Rapid flashing could induce photosensitive epilepsy.

- Never alter the unit in any manner. Safety in hazardous locations may be endangered if additional openings or alternations are made.

- **WARNING - EXPLOSION HAZARD:** Do not disconnect while circuit is live or unless the area is known to be free of ignitable concentrations.

OVERVIEW - The model 225XL hazardous location warning light is available in 24 VAC/DC or self-detecting 120-240 VAC. The unit comes standard in flashing mode and is field-configurable to steady.

This device is intended for permanent installation and operation in accordance with Title 46, Code of Regulations, Parts 110-113, or Title 33, Code of Federal Regulations, Part 183, Sub-part I, Section 183.410, and the applicable requirements of the American Boat and Yacht Council, Inc. and/or ANSI/NFPA 302, "Fire Protection Standard for Pleasure and Commercial Motor Craft."

Certifications and Ratings
- UL and cUL Listed for Class I, Division 2, Groups A, B, C and D; Class II Division 2, Groups F and G; Class III; or non-hazardous locations.

- Type 4X, IP66 enclosure. Indoor or outdoor use.

- IP69K Compliant

- Marine Listed

- Model 225XLis NSF Certified (dome-up) for Splash Zones and Non-food Zones to NSF/ANSI 2: Food Equipment.

- Electrical ratings: 0.38A (24VAC/DC), 0.21A (120VAC), 0.13A (240VAC).

- Certified Operating Temperature: -58°F to 150°F (-50°C to 66°C).

T-Code at Max Ambient Temperature			
UL/cUL Hazardous Location Rating	40°C	55°C	66°C
Class I, Division 2, Groups A, B, C, D	T6	T5	T4A
Class II, Division 2, Groups F, G	T6	T6	T6
Class III	T6	T6	T6

Installation

⚠ **WARNING**

WARNING - EXPLOSION HAZARD: Do not install the unit in a hazardous location if the operating temperature exceeds the atmosphere's ignition temperature.

Unpacking the Device: After unpacking the device, examine it for damage and verify the parts. The unit comes with one 225XL assembled unit with flying leads. If a part is missing or damaged, do not attempt to install it; contact Federal Signal Customer Support.

Figure 1 Exploded view

Elliptical Outer Dome with 12" Curvature Radius

Fresnel Lens

PCBA

Silicone Gasket

Zinc Alloy E-coated Base

Elliptical Outer Dome with 12" Curvature Radius

LED Lamp

Inner Fresnel Lens

1/2" NPT Pipe Mount

5.5"/ 139.7 mm

7.5"/ 190.5 mm

Mounting the Device: 225XL comes standard to mount 1/2" NPT threaded pipe.

To comply with NEC Section 300-14, which requires a minimum of 6" of free conductor at a junction. The pipe used to join the unit to a splice box should be no longer than 10".

Wall mounting bracket LHWB is sold separately and is not NSF Certified.

- **Pipe Mount:** Feed wires through the pipe and turn clockwise to tighten. To prevent the connection from loosening, tighten the fixture to a minimum of 5 ft-lb (6.8 Nm) after threading onto the pipe.
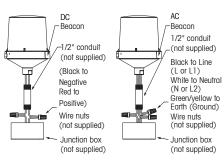
Figure 2 Pipe mounting

DC Beacon
1/2" conduit (not supplied)
(Black to Negative Red to Positive)
Wire nuts (not supplied)
Junction box (not supplied)

AC Beacon
1/2" conduit (not supplied)
Black to Line (L or L1)
White to Neutral (N or L2)
Green/yellow to Earth (Ground)
Wire nuts (not supplied)
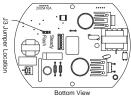Junction box (not supplied)

⚠ WARNING

ELECTRICAL CONNECTIONS: To avoid electrical shock, do not connect wires when circuits are energized. Wiring must comply to code in the country of use.

- **24 VAC/DC Models:** Connect the red (+) lead to the positive or the phase (hot) side of the power source and the black (-) lead to the negative or common side of the power source.

- **120-240 VAC 50/60 Hz Models:** Connect the black lead to the phase (hot) side of the power source and the white lead to the common (neutral) side of the power source. If required by local building codes, the green/yellow lead in the housing is provided for connection to earth ground.

Changing the Flash Pattern from Flashing (default) to Steady

1. Find and locate J3 mini jumper on the board

Figure 3 Jumper location

J3 Jumper Location
Steady
Flash
Bottom View

2. Switch jumper from flash to steady

Testing and Operating

After installation, test the system to verify that each signal operates and establish a program for periodic testing of the device. Provide copy of these instructions to all operating personnel.

Maintenance and Service

Technical Assistance: Contact our Technical Support Team at +1 708-587-3587 or signalsupport@fedsig.com.

Repair Service: A return authorization is required. Contact your Authorized Distributor or Federal Signal Customer Support. Defective products under warranty will be repaired or replaced at Federal Signal's discretion.

Product Returns: Returns require authorization from Federal Signal. Contact your Authorized Distributor for more information on our return policy or to request a return.

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Additional translations available at signaling.fedsig.com
Traducciones adicionales disponibles en signaling.fedsig.com

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