50mW Explosion Proof Red Crane Warning Laser
Instruction Manual

Do not attempt installation until you are familiar with all warnings, precautions, and procedures outlined within this instruction sheet.

WARNING:

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE. CRITICAL SAFETY INSTRUCTIONS:

- To avoid the risk of fire, explosion, or electric shock, this product should be installed, inspected, and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

To avoid electric shock:

- Be certain electrical power is OFF before and during installation and maintenance.
- Luminaire must be supplied by a wiring system with an equipment grounding conductor.

To avoid burning hands:

- Make sure lens and housing are cool when performing maintenance.

To avoid explosion:

- Make sure the supply voltage is the same as the luminaire voltage.
- Do not install where the marked operating temperatures exceed the ignition temperature of the hazardous atmosphere.
- Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
- Use proper supply wiring as specified on the luminaire nameplate.
- All gasket seals must be clean.
- Before opening, electrical power to the luminaire must be turned off. Keep tightly closed when in operation.
- Use only UL listed components suitable for Class I Division 1, Groups C & D and Class II Division 1, Groups F & G installation.
- All threaded connections must engage five full threads.

Refer to the luminaire nameplate for specific classification information, maximum ambient temperature suitability, and corresponding operating temperature (TCode).

This fixture comes preconfigured with selected Beam Spread from factory.

MOUNTING & WIRING

1. Mount the enclosure to a flat surface in a location that can support the load. Use predrilled holes for mounting.

Voltage: **12V DC**

Compare to Product Label for correct voltage!



WIRING

1. Remove the front cover module by loosening the single set screw and rotating counter-clockwise.
2. Pull field wiring into module.
3. Connect supply wires to luminaire wire leads (or terminal blocks) using methods that comply with all applicable codes. Tighten all electrical connections.
4. Close cover module, making sure that all wires are safely inside driver. Tighten captive closing screw.
5. Close all unused conduit entries with conduit plugs. To ensure water-tightness, lubricate conduit plugs with lubricant before installing, and secure wrench-tight with at least five (5) full threads engaged (42-52 ft.-lb. for 3/4” plugs, and 58-68 ft.-lb. for 1” plugs).
6. Turn power on and aim light.

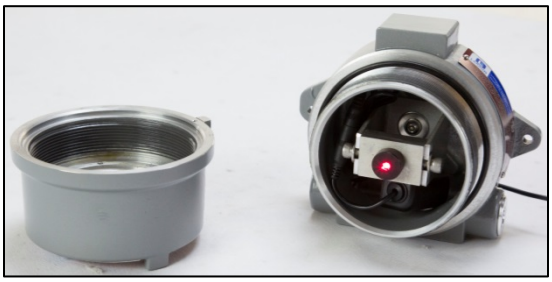
ROTATING BEAM

WARNING: Remove this fixture from Hazardous Areas before performing these steps!

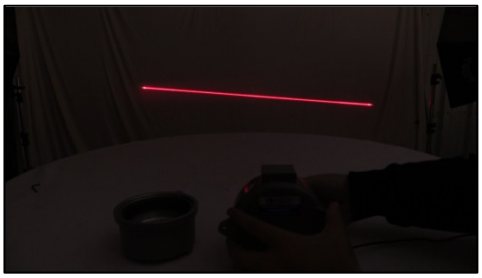
- Remove the front cover module by loosening the single set screw (**1**) and rotating counter-clockwise (**2**).



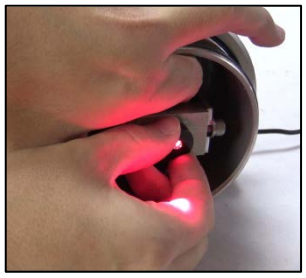


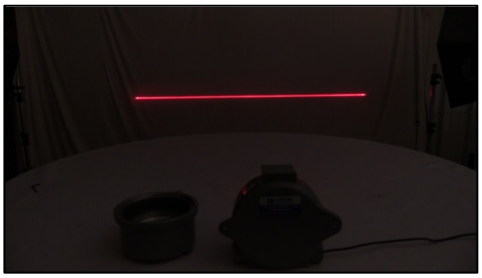


- Power laser and aim toward a flat surface.
- Loosen lens holding laser in mount. Rotate entire laser module until desired angle is achieved and tighten lens.



BEFORE





AFTER

MAINTENANCE

1. Perform visual, electrical, and mechanical inspections on a regular basis. The environment and frequency of use should determine this. However, it is recommended that checks be made at least once a year. We recommend an Electrical Preventive Maintenance Program as described in the National Fire
2. Protection Association Bulletin NFPA No. 70B: Recommended Practice for Electrical Equipment Maintenance (www.nfpa.org).
3. The lens should be cleaned periodically to ensure continued lighting performance. To clean, wipe the lens with a clean, damp cloth. If this is not sufficient, use a mild soap or a liquid cleaner such as Collinite NCF or Duco #7. Do not use an abrasive, strong alkaline, or acid cleaner. Damage may result.
4. Visually check for undue heating evidenced by discoloration of wires or other components, damaged parts, or leakage evidenced by water or corrosion in the interior. Replace all worn, damaged, or malfunctioning components, and clean gasket seals before putting the luminaire back into service.
5. Electrically check to make sure that all connections are clean and tight.
6. Mechanically check that all parts are properly assembled.

REPLACEMENT PARTS

The EXHL-SFC-LE5-CRN-RED-50MW-1224 is designed to provide years of reliable lighting performance. Should the need for replacement parts arise, please contact Larson Electronics at the contact information below.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-800-369-6671 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.