150 Watt Temporary Manhole Mount Explosion Proof LED Fixture
Tank Nozzle Mount Lighting - 12" Drop
Instruction Manual

This explosion proof light is designed for illumination of industrial locations. It uses the latest in solid state lighting technology for long life, low maintenance, and high efficiency.

The unique design focuses the light where it is needed most, giving improved efficiency over a conventional HID luminaire.

An internal, universal input, power-factor-corrected switch-mode supply allows it to be used from any nominal voltage within range for the model purchased. Voltage options include 100-277V AC 50/60 Hz or 11-25 Volts AC/DC. Voltage option is selected during purchase. There is no variation in light output between voltages.

WARNING

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 connected to a wiring system with an equipment-grounding conductor.

To avoid explosion:

- Make sure the supply voltage is within the luminaires' voltage rating.
- Ensure the marked T rating is less than the ignition temperature of the Hazardous Atmosphere.
- Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
- Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.

For supply connections, use wire rated for at least 110°C
Recommended mounting height is 25-40 feet.

MOUNTING

This fixture is designed to be mounted through a 21" man-hole opening. This mounting system provides an extremely versatile lighting option for those working in confined spaces such as rail cars, storage tanks, ship tanks and the like where entry is through a 21" man-way opening. The light is suspended 12" from the lip to lower the light source into the tank.

Lift fixture and place through manhole opening. Run cord to matching receptacle to energize fixture and illuminate the work area. The light is instant-on and will illuminate once power is supplied. Ensure no one is staring directly into the light prior to energizing.

WIRING (see attached wiring diagram)

This unit comes preconfigured in the selected voltage, beam spread, and explosion proof cord cap. Run cord from light and plug into matching receptacle. Follow all applicable local, state, and National Electrical Code for the hazardous area!

DIAGRAM



WARNING: CHECK NAMEPLATE FOR PROPER VOLTAGE. DAMAGE FROM IMPROPER VOLTAGE WILL VOID WARRANTY.

MAINTENANCE

Caution: To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.

Warning: No user serviceable parts inside of fixture. Risk of electric shock. Removal of the lens will void the warranty.

1. Perform visual, mechanical and electrical inspections on a regular basis. We recommend routine checks to be made on a yearly basis. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in NFPA 70B: Recommended practice for Electrical Equipment.
2. The lens should be cleaned periodically as needed to ensure continued photometric performance. Clean the lens with a damp, non-abrasive, lint-free cloth. If not sufficient, use mild soap or a liquid cleaner.
3. Inspect the cooling fins on the luminaire to ensure that they are free of any obstructions or contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.
4. Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.

WARNING: ELECTRICAL POWER SUPPLY MUST BE “OFF” BEFORE AND DURING INSTALLATION AND MAINTENANCE. INSTALLATION AND MAINTENANCE PROCEDURE MUST BE PERFORMED BY A TRAINED AND COMPETENT ELECTRICIAN.

If any part of the plug appears to be missing, broken, or show signs of damage—discontinue use immediately! This condition could cause serious or fatal personal injury due to electrocution and/or equipment damage. Repair with the proper replacement part(s) before continuing service.

During the inspections, perform the following steps:

1. Inspect all contact wire terminals for tightness and re-torque if necessary. NOTE: Discoloration due to excessive heat is an indicator of potential issues and should be thoroughly investigated and repaired as necessary.
2. Explosion Proof Plugs: Check grounding and bonding for correct installation. Secure connections and retorque if necessary.
3. Check gaskets for deterioration and replace if necessary.
4. Clean exterior surfaces to ensure the nameplates remain legible.
5. Inspect cable grip tightness to ensure proper cord/cable gripping.
6. Inspect all parts and replace those which are broken or excessively worn.
7. Check the contacts for signs of excessive arcing or burning and replace if necessary.

USE AND CARE

Unauthorized modification may impair the function and/or safety of the extension cord and could affect the life of the equipment. Always check damaged or worn out parts before using the unit. When extension cord is not in use, store it in a secure place. Inspect for good working condition prior to storage and before re-use.

Should further information not covered by these instructions be required, please contact Larson Electronics at 1-800-369-6671 or sales@larsonelectronics.com for further assistance.

Please visit LarsonElectronics.com for **Warranty** and **Return** information.