



Larson Electronics LLC www.LarsonElectronics.com sales@larsonelectronics.com
9419 E US HWY 175, Kemp, TX 75143 - P: (800) 369-6671 - F: (903) 498-3364

Explosion Proof High Bay LED Light

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 optical design focuses light downward to where it is needed, 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 100V-277V, 50/60Hz AC supply without any variation in light output.

ETL Listings:

Class I, Divisions 1 & 2, Groups C & D
Class II, Divisions 1 & 2, Groups E, F, & G
Ambient Temperature: -40°C - +65°C
T5 Temperature Rating
Suitable for use in Wet Locations

INSTALLATION

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. For supply connections use wire rated for at least 90° C. Recommended mounting height is 25-40 feet.

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.

PENDANT MOUNTING

For maximum long term reliability and lumen retention, the light must be installed in free air.

- The high bay fixture design incorporates an over-temperature control circuit that reduces input power should internal temperatures reach a maximum level. As a result, light output may be reduced.

The fixture is threaded for a ¾" NPT for wiring and/or pendant mounting.

- Calculate and measure required conduit length.
- Feed the power cable through the conduit and into the junction box.
- Attach fixture to the conduit using conductive pipe sealant or Teflon tape.



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- Insert ¼-20 set screw in order to prevent rotation of the fixture on the conduit.
- NOTE:** Alignment bar on back side of fixture not applicable for these units. These units have circular light patterns, and fixture may have any orientation.

Connect power cable conductors as follows:

- Green wire connects to Safety Ground
- White wire connects to Neutral
- Black wire connects to Live

Restore power and verify operation.

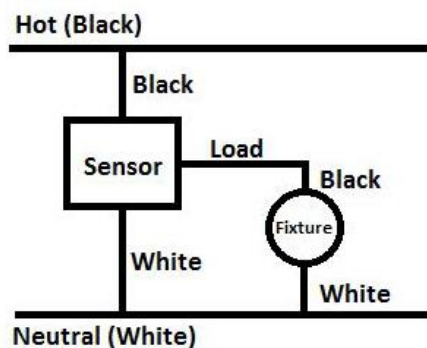
INTERFACING TO AN OCCUPANCY SENSOR

This high bay fixture is ideally suited for control by an occupancy sensor in order to maximize energy savings based on its instant-on behavior and low power consumption. Instructions for connecting the fixture to an occupancy sensor are listed below.

WARNING: To be installed and/or used in accordance with appropriate electrical codes and regulations.

WARNING: Controlling a load in excess of the specified ratings of the occupancy sensor could damage the unit and pose risk of fire, electric shock, personal injury, or death. Check load ratings to determine the unit's suitability for your application.

1. **WARNING:** To avoid fire, shock or death, turn off power at circuit breaker or fuse and test that the power is off before wiring.
2. Install occupancy sensor as per sensor instructions to provide desired coverage of area.
3. Connect luminaire wires per wiring diagram as follows: Black lead to load of the occupancy sensor, White lead to the line (neutral), Green lead to earth ground. Multiple fixtures may be connected to a sensor, as long as the rated load of the sensor is not exceeded.
4. Restore power at circuit breaker or fuse.
5. Verify operation of system. If the light will not turn on, check the operation of the fixture and sensor individually, and check that the wiring is done correctly. If the light will not turn off or turns on quickly, see the sensor's installation instructions for further guidance.





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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.