



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
ATEX-EPLSS-48-64W-LED

EQUIPMENT APPLICATION

This lighting equipment is intended for use in a potentially explosive atmosphere in Zones 1 and 2 to the requirements of ATEX Directive 94/9/EC. The product can be used inside or outside to illuminate areas with a potentially explosive atmosphere.

MOUNTING LUMINAIRE

Assemble the mounting bracket to the luminaire with 2 M8 x 1.25 by 16mm bolts.
Torque Specifications: 10.0 nm maximum.

INSTALLATION (non-emergency version)

Ensure that the main voltage supply is disconnected before connecting the luminaire. Install the equipment in accordance with the manufacturer's instructions as well as any other applicable electric codes.

- Always transport and store the equipment in its original packaging and keep in a dry location.
- When unpacking, check for any cracks or damage in housing, glass and glass frame. If in doubt, do not install!
- The cable glands used with this fixture must be certified to the EX e requirements.
- The cable used must be suitable for the site application and/or the site requirements.
- When assembling the cable entries for the main connection, always observe the manufacturer's specifications for the glands used.
- Unused cables entries must be closed and sealed by a certified blanking plug.
NOTE: This fixture is supplied with dust caps only and unused entries must be closed off with a certified blanking plug or stopper.
- The cable entries should be securely tightened to ensure that the minimum protection rating is achieved. The cable entry should be rated to minimum of IP66 to maintain the protection level of the fixture.
- Do not over tighten as the protection rating may be compromised.
- Always refer to gland manufacturers data torque settings.
- The terminal block is suitable for multi-stranded and single core cables up to a maximum of 4mm, strip length 10mm.
- The LIVE, NEUTRAL, and EARTH connections are clearly marked on the terminal block. Push down at the "cross point" insert correct cable and release, ensuring the cable has been securely retained.



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Loop Thru Electrical Connections:

Connect incoming cable as above then connect the outgoing cable to the associated adjoining connection to pass to the next luminaire.

ONLY SINGLE CABLES TO BE USED ON EACH CONNECTION.

The improper installation, operation, and maintenance of these luminaires may result in the invalidation of the guarantee.

OPERATION

Prior to operating, check the luminaire for its correct installation in compliance with these operating instructions and other applicable regulations.

Attention: Only fully certified equipment may be put into operation.

IMPORTANT:

- **NEVER** open the luminaire. There are no user serviceable parts inside.
- **DO NOT** remove or tamper with certified cable gland. The Ex d rated gland has been supplied and installed to the luminaire accordance with the manufacturer's instructions.
- Tampering with this cable gland may compromise IP66/67 rating and result in flame propagation into the atmosphere.

Conditions for use:

- The supply to the luminaire must include a fuse which is capable of interrupting a 1500A short circuit current.
- When used with steel wired armor or braided cable, the basket weave armor or braid is unable to carry the cable load without fracture. Therefore the cable must be clamped and cleated to prevent pulling on the cable being transmitted to the cable terminations.
- Improper installation and operation of this luminaire may invalidate the warranty.
- For maximum long term reliability and light output, the luminaire must be installed in free air.
- The fixture design incorporates an over-temperature control circuit that reduces input power should internal temperatures reach a maximum level. In this event light output may be reduced.

MAINTENANCE

NEVER open the luminaire. There are no user serviceable parts inside.

This LED luminaire should require a minimum amount of maintenance. If any unforeseen repairs are required then always observe explosion protection regulations and requirements.



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INSPECTION

Within the scope of maintenance or inspection routine the following should be included:

- Protective hoses covering the connection cables.
- Cables entries must be free of corrosion.
- 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.
- 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.
- Inspect cooling fins on the luminaire to ensure that they are free of any obstructions or contamination (i.e. excessive dust build up). Clean with non-abrasive cloth if needed.

REPAIRS/OVERHAUL/MODIFICATIONS

The relevant national regulations which apply to the maintenance/servicing of electrical apparatus in explosive atmospheres shall be observed.

Should the luminaire enclosure be damaged, only a replacement will be permitted. In case of doubt, the equipment should be returned to Larson Electronics for inspection/repair.

Modifications to the device or changes of its design are not permitted.

The equipment must be operated according to the intended purpose in a perfect and undamaged condition.

DISPOSAL RECYCLING

When the apparatus is disposed of, the respective national regulations on waste disposal should be observed.