Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

EPL-EMG-LL-14K-ITG

Explosion Proof Integrated Linear LED Fixture - Class I, II, III - 14,000 lms - Diffused Glass Lens - Emergency Backup - IP66/Red

Product ID: 270704

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

EPL-EMG-LL-14K-ITG Explosion Proof Emergency LED Fixture
Listing: NRTL Listed for United States & Canada
Lamp Technology: LED
Dimensions: 37.97" x 6.51"
Weight: -
Voltage: 120-277V AC, 50/60 Hz
Watts: 68.5W
Lumens: 14,000 lms
Luminous Efficacy: 153 lm/w
Expected Lifespan: 50,000+ Hours
Color Temperature: 5000K
CRI: 70
Lamp Type: -
Lamp Base: -
Replacement Lamp: -
Beam Angle: -
Light Configuration: Flood
Power Efficiency: -
Power Factor: -
Emergency Backup Runtime: 90 Minutes
Emergency Backup Lumens: 1,000 lms
Surge Protection: 20kV/10kA
Self-diagnostics: Emergency LED Status, Emergency LED Driver Circuit, Battery Capacity and Charger Function
Self-testing Frequency: (1) 1-minute Test per Month and Alternating 30-60 Minute Test Once Every 6 Months

Quick Summary
Class I, Divisions 1 & 2, Groups B,C,D
Class I, Zones 1 & 2, Groups IIB, IIA
Class II, Divisions 1 & 2, Groups E,F,G
Class III, Divisions 1 & 2
IP66
Suitable for Wet Locations
Suitable for Paint Spray Booths
Corrosion Resistant
15 Minute Re-transfer Delay
Automatic Unit Transfer in Brown-out Conditions
Field Installed Eye-bolt for Safety Chain
Red Housing

LED Status Lights: Visual Fault Detection and Charging Status

Amps: 0.57A @ 120V, 0.285 @ 240V, 0.247A @ 277V

Ambient Operating Temp Range: 40°C to 55°C

Temperature Rating: T5/T6

Housing Material: Copper-free Aluminum

Mounting: T-slot via 5/16 or M8 Bolt, Removable Ceiling Flush Mount

Wiring: Terminal Blocks (L, N, G)

Hubs: (3) 3/4" NPT Hubs

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The EPL-EMG-LL-14K-ITG from Larson Electronics is an Explosion Proof Integrated Linear LED Fixture with Emergency Backup for Class I, II and III rated combustible facilities. This 68.5-watt LED light offers 14,000 lumens of output and features self-diagnostics and self-testing capabilities. In emergency mode, the corrosion resistant unit provides 1,000 lumens with a runtime of 90 minutes. The red fixture is compatible with surface, pendant and ceiling mount applications.

The EPL-EMG-LL-14K-ITG offers superior illumination inside hazardous locations and industrial sites that handle combustible materials. This 68.5-watt high bay linear LED fixture is compatible with 120-277V AC, 50/60Hz and offers 14,000 lumens during use. A flood light beam with a 5000K color temperature rating at 70 CRI minimum offers wide light distribution for large spaces. This IP66 rated explosion proof LED light is constructed of copper-free aluminum. The explosion proof unit is equipped with a diffused glass lens for protection.

An emergency backup feature provides illumination during events of power loss or catastrophes. In emergency mode, the explosion proof LED fixture is limited to 1,000 lumens of output for up to 90 minutes. Self-diagnostics monitors the following: LED driver circuit, battery capacity and charger function. LED lights display fault detection mode and charging status. This explosion proof unit has self-testing features, which runs a 1-minute test once a month and an alternating 30-60 minute test once every 6 months.

The corrosion resistant unit is listed for the United States and Canada. Explosion proof ratings include: Class I, Divisions 1 & 2 (Groups B, C, D); Class I, Zones 1 & 2 (Groups IIB, IIA); Class II, Divisions 1 & 2 (Groups E, F, G) and Class III, Divisions 1 & 2. Suitable for wet locations and paint spray booths, the LEDs offer inherent LED resistance to shocks and vibrations.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units contain advanced drivers which use pulse width modulation to control heat buildup rather than simple voltage regulators which are typically harsh on sensitive electronics and can contribute to early LED failure. These units automatically sense the temperature of each LED and adjust the energy frequency or "duty cycle" accordingly to maintain heat levels within acceptable ranges. This system in essence flashes current at an extremely fast on and off rate to each LED based upon the LED`s core temperature. This flash rate

is too fast to detect with the human eye, but provides precise control of the current flowing to each LED and thus the heat it generates. This allows the LEDs to be driven at up to 100% capacity without overheating or visible loss of light output. The LEDs are always driven at the same voltage but the duty cycle, however, is changed to alter how long the LEDs are actually on or off. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 50,000 hours.

Hubs: There are three 3/4" NPT hubs on the explosion proof emergency LED fixture. Operators can use terminal blocks inside the unit (L, N, G) to complete wiring connections. The wiring chamber does not require tools to access.

Mount: The explosion proof LED light features a T-slot at the back of the unit for mounting with a 5/16 or M8 bolt. Removable brackets are also available for ceiling flush mounting installations. The bottom of the fixture has a field-installed eye-bolt for installations requiring a safety chain.

Applications: Hazardous locations, high bay lighting, warehouses, chemical processing, paint spray booths, oil rigs, manufacturing, labs and more.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Frequently Asked Questions (FAQ)


L N G

EPL-EMG-LL-14K-ITG

Product ID: 270704

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- HigResPic1
- HigResPic2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map