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

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Product ID: 236223

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



Image:

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.

EXHL-TRN-LE1-BLU-LV Explosion Proof Red LED Light Fixture

Lamp Type: Blue LED
Dimensions: 8"L x 6"W x 14"H
Watts: 12W
Voltage:12-24V DC
Lumens: 1,320
Luminous Efficacy: 110 Lm/W
LED Light Color: Red
LED Life Expectancy: 50,000 hours
Lighting Configuration: 10° Spot or 40° Flood
Spot Beam: 800`L x 140`W
Flood Beam: 300`L x 225`W
Ambient Operating Temp Range: -40°C to +60°C
Housing Material: Aluminum
Light Housing Color: Powder Coated - Grey
Lens Material: Borosilicate Glass
Mounting: Adjustable Surface Mount Bracket w/ Set Screws
Wiring Hub: (2) 3/4" NPT

Ratings/Approvals

Listed for United States, Canada, Europe, Asia
Class I, Div. 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+H2, IIA
Class II, Div. 1 & 2, Groups E, F ,G
Class III, Div. 1 & 2
NEMA Type 3, 4, 4X, 7 (B,C,D), 9 (E,F,G)
ATEX Ex II 2 G / D
IECEx db IIC Gb
IECEx tb IIC Db IP66

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

Made in Texas

The EXHL-TRN-LE1-BLU-LV from Larson Electronics is an Explosion Proof Portable

Surface Mount Blue LED Fixture that operates on 12-24V DC and produces 1,320 lumens while drawing only 12 watts. The EXHL-TRN-LE1-BLU-LV is Class I, Divisions 1 & 2, Groups B, C, D, Class I, Zones 1 & 2, Groups IIB+H2, IIA, Class II, Divisions 1 & 2, Groups E, F ,G and Class III Divisions 1 & 2 rated for hazardous areas and is listed for use worldwide including the United States, Canada, Europe and Asia. This explosion proof blue LED light fixture is offered in a choice of spot or flood beam configuration and operates on 12-24V DC.

The EXHL-TRN-LE1-BLU-LV produces 1,320 lumens of high-intensity blue LED light for illumination within hazardous areas and potentially explosive work environments. This explosion proof LED light fixture operates on 12-24V DC. The EXHL-TRN-LE1-BLU-LV is available in two lighting configurations; spot and flood. The spot configuration features a 10° beam that measures 800`L and 140` W. The flood configuration throws a 40° beam that measures 300`L and 225`W. An adjustable surface mount mechanism allows operators to control the direction of the beam by tilting the unit towards the desired target.

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.

Durability: The EXHL-TRN-LE1-BLU-LV explosion proof LED light fixture from Larson Electronics is rated NEMA Type 3, 4, 4X, 7 (B,C,D) and 9 (E,F,G) and designed to withstand the rigors of demanding environmental and operating conditions while remaining lightweight

and easy to use. These units can operate in temperatures of -40° Celsius to 60° Celsius, are waterproof to 3 meter and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum and the lenses are shatterproof borosilicate glass. The LEDs offer inherent LED resistance to shocks and vibrations.

Mounting: This explosion proof blue LED light fixture features an adjustable surface mount bracket for seamless control. The included adjustable flat surface bracket has two set screws on the bracket, allowing operators to loosen the mounting bracket, adjust the light`s tilt orientation, and retighten to hold the luminary in position. A single thru-hole mounting bolt allows operators to adjust the rotation of the fixture by loosening one bolt.

Wiring: Terminal strips inside the fixture allow operators to make electrical connections. Wiring is fed through rigid pipe to the 3/4" NPT hubs on either side of the fixture and tied in to the fixture`s terminal strips, completing the electrical connection.

High Quality Features	Superior LED Benefits
	1. 50,000+ hour lifespan.
	2. Can SAVE 50% or more on energy.
	3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
1. Low power consumption.	4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
2. Instant on/off operation.	5. 100% recyclable.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.	6. No toxins-lead, mercury.
4. Superior color rendering compared to HPS, LPS, MH.	7. No UV light, infrared radiation or CO2 emissions.
5. Retains 70% lumen output after 50,000 operating hours.	8. Qualifies buildings for LED and other sustainable business certifications.
6. Powder coated aluminum fixture body.	9. Bright, even light maintains consistent color over time.
7. Adjustable surface mount bracket w/ set screws.	10. Instant on/off - No flickering, delays or buzzing.
8. Low profile - Light weight	11. Very good color rendering.
9. 1,320 Lumen output of blue light from 12 watts	12. Vibration/impact resistant.
	13. Significantly cooler operation.
	14. Less frequent outages, higher output improves workplace safety.

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.

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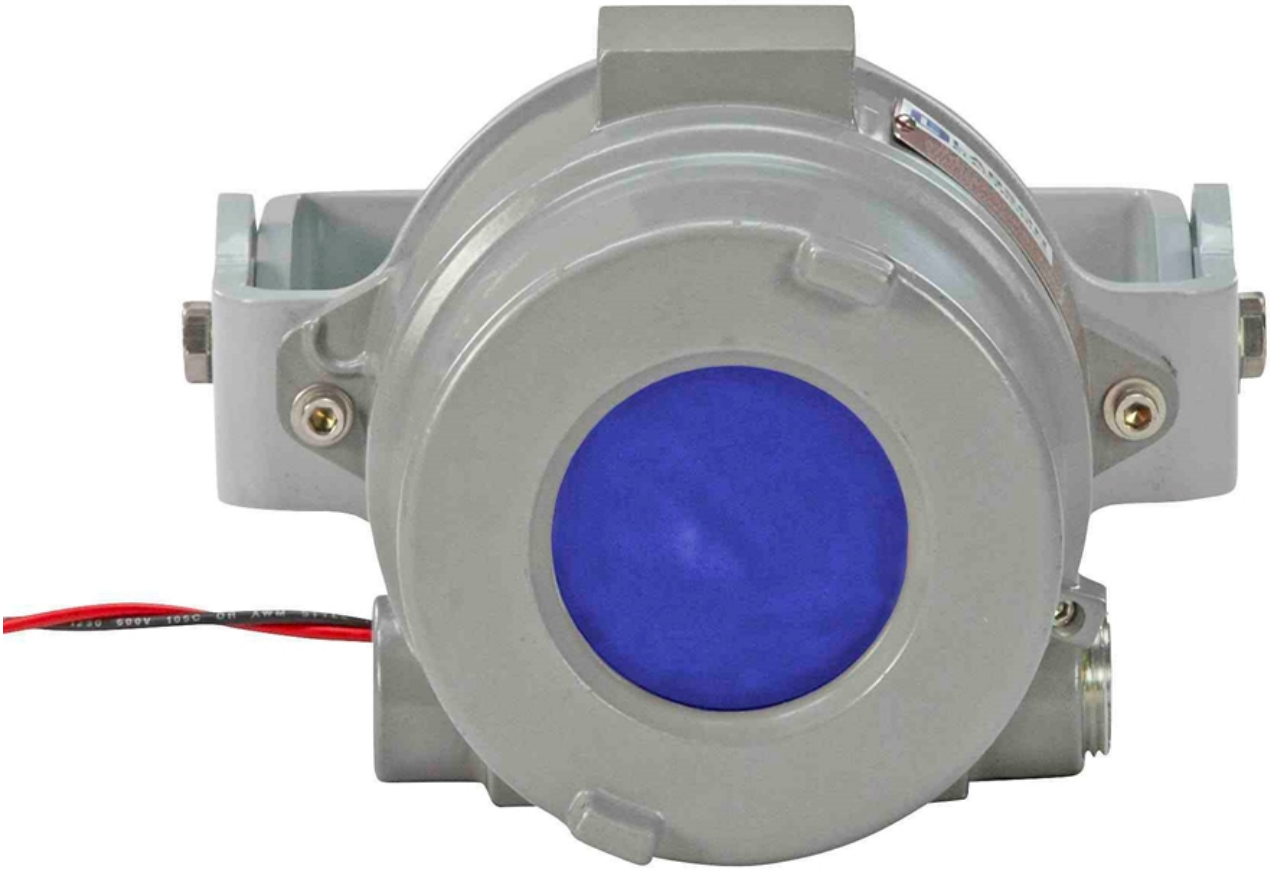
Frequently Asked Questions (FAQ)

There are no Faqs



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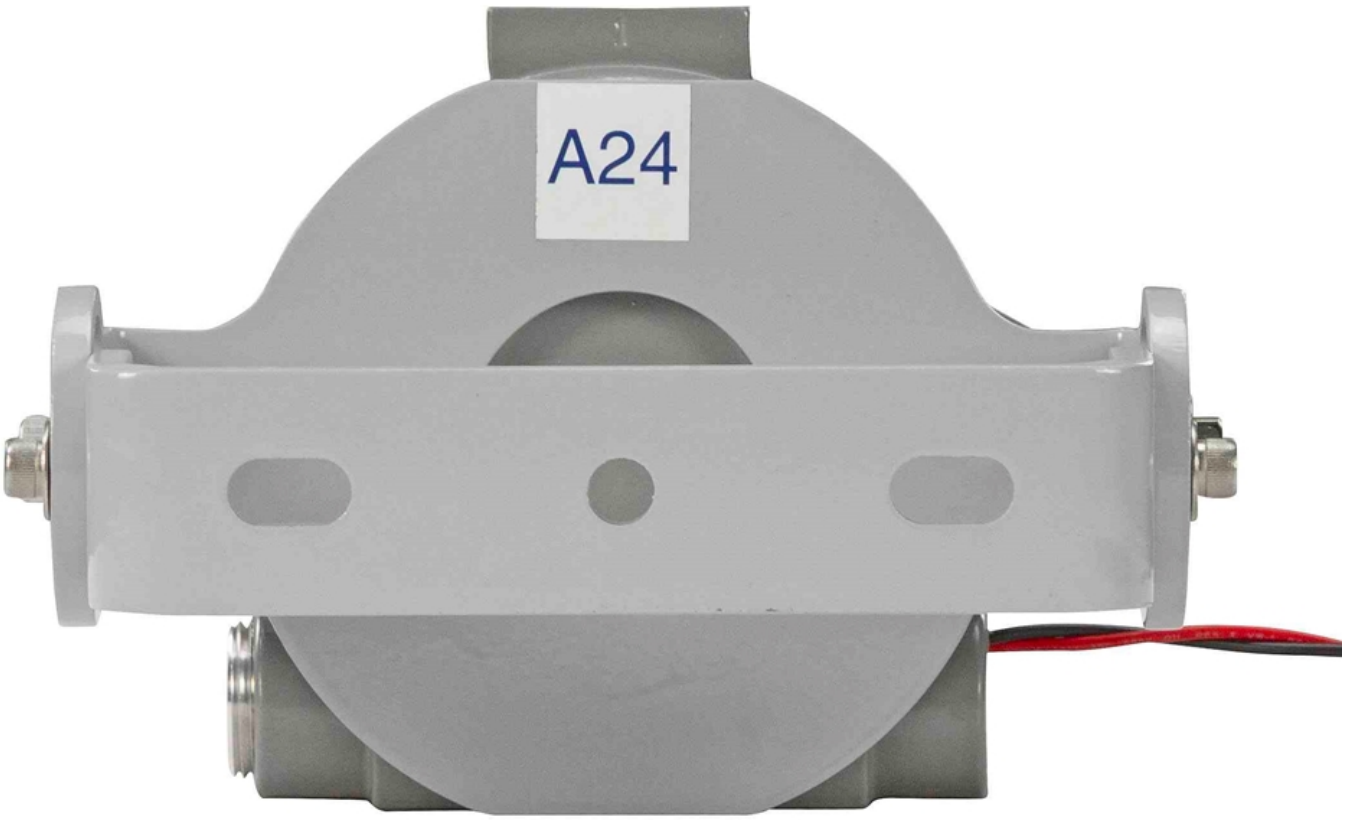

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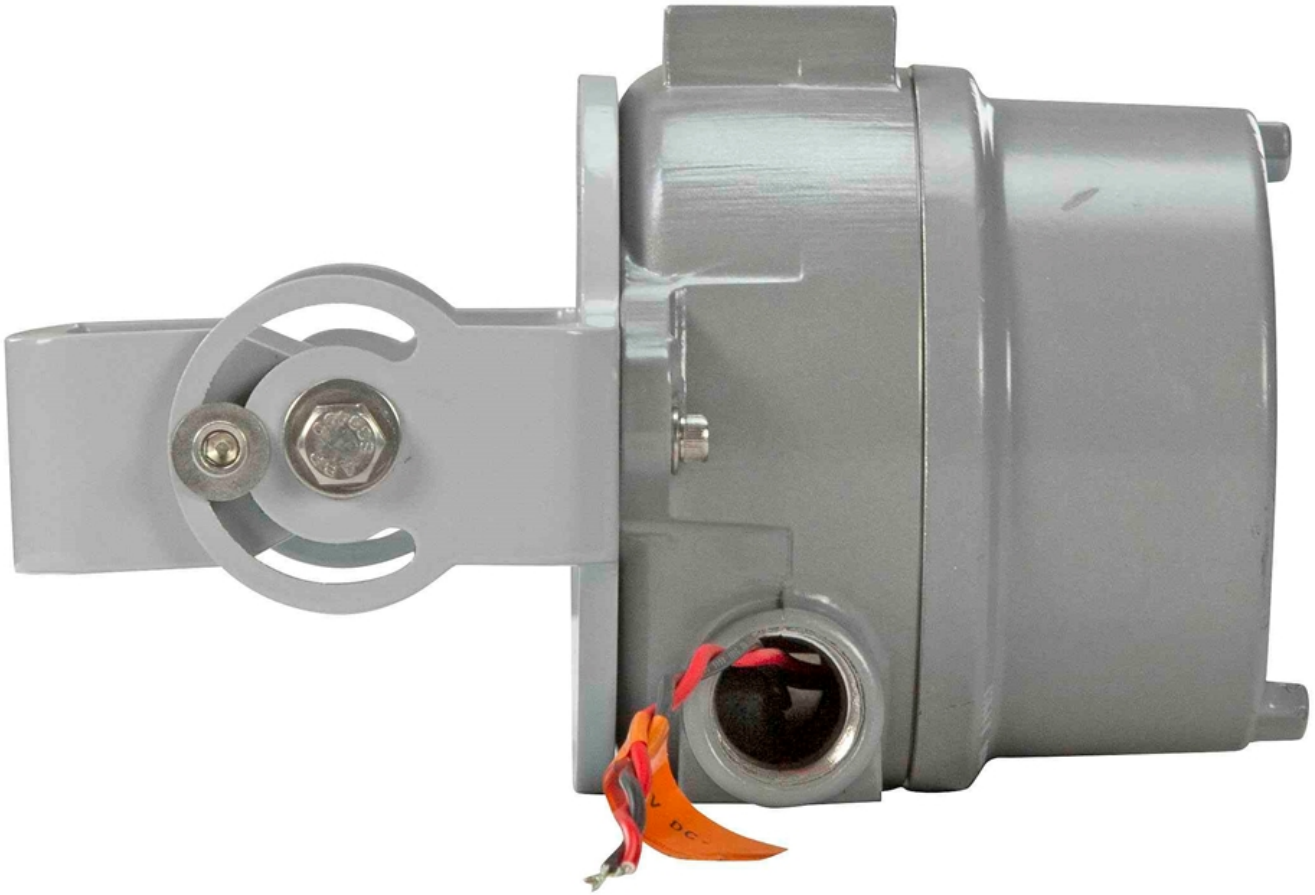

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Export Control Classification Number (ECCN): EAR99

Options:

-Output Voltage-Beam Config
Example: -12VDC-SP

Output Voltage	
12V DC	-12VDC
24V DC	-24VDC

Beam Config	
SPOT	-SP
FLOOD	-FL

Links (Click on the below items to view):

- **ATEX Certificate (European Explosion Proof)**(https://www.larsonelectronics.com//images/product/ATEXCert/236223.PDF)
- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(https://www.larsonelectronics.com//images/product/CECCert/236223.PDF)
- **CE Certificate**(https://www.larsonelectronics.com//images/product/CECert/236223.PDF)
- **Certificate 1, Misc**(https://www.larsonelectronics.com//images/product/Cert1/236223.PDF)
- **Certificate 2, Misc**(https://www.larsonelectronics.com//images/product/Cert2/236223.PDF)
- **Certificate 3, Misc**(https://www.larsonelectronics.com//images/product/Cert3/236223.PDF)
- **Certificate 4, Misc**(https://www.larsonelectronics.com//images/product/Cert4/236223.PDF)
- **Dimensional Drawing 2D**(https://www.larsonelectronics.com//images/product/DimensionalDrawing/236223.PDF)
- **IEC Ex Certificate (International Explosion Proof)**(https://www.larsonelectronics.com//images/product/IECExCert/236223.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com//images/product/Msds/236223.PDF)
- **Operations Manual**(https://www.larsonelectronics.com//images/product/Manual/236223.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com//images/product/RoHSCert/236223.PDF)
- **STEP File (3D CAD Model)**(https://www.larsonelectronics.com//images/product/Step/236223.ZIP)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com//images/product/NECCert/236223.PDF)
- **Wiring Diagram**(https://www.larsonelectronics.com//images/product/WiringDiagram/236223.PDF)
- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/236223.JPG)
- **HigResPic2**(https://www.larsonelectronics.com//images/product/HigResPic2/236223.JPG)
- **HigResPic3**(https://www.larsonelectronics.com//images/product/HigResPic3/236223.JPG)
- **HigResPic4**(https://www.larsonelectronics.com//images/product/HigResPic4/236223.JPG)
- **HigResPic5**(https://www.larsonelectronics.com//images/product/HigResPic5/236223.JPG)
- **Video1**(https://www.youtube.com/watch?v=OGbw09xDTqI)
- **Video2**(https://www.youtube.com/watch?v=ZEWSEBXdzYE)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)