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EXPSG-SS-TRN-LE1-LV

12W Explosion Proof Sight Glass LED Light - C1D1/C2D1 - 316 Stainless Steel - 12-24V DC

Product ID: 244085



Image: EXPSG-SS-TRN-LE1-LV

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.

EXPSG-SS-TRN-LE1-LV Explosion Proof Sight Glass LED Light

Listing: NRTL Listed for United States, Canada, Europe, Asia
Lamp Technology: LED
Dimensions: 6.75" x 6.125" x 4.875"
Weight: 35 lbs
Watts: 12W
Voltage: 12-24V DC
Lumens: 1,320 lms
Luminous Efficacy: 110 Lm/W
LED Life Expectancy: 50,000 hours
LED Light Color: 6000K - White
CRI: -
Lamp Type: -
Lamp Base: -
Replacement Lamp: -
Spot Beam: 800`L x 140`W
Flood Beam: 300`L x 225`W
Lighting Configuration: 10° Spot or 40° Flood
Efficiency: -
Power Factor: -
Amps: -
Ambient Operating Temp Range: -60°C to +70°C
Housing Material: 316 Stainless Steel
Lens Material: 3/8" Thick Tempered Glass
Mounting: Adjustable Sight Glass Mount
Wiring Hub: (2) 3/4" NPT

Ratings/Approvals

Listed for United States & Canada
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
Class III, Divisions 1 & 2
NEMA 3R, 4, 7 (B, C, D), 9 (E, F, G)
NRTL Listed to UL 508A
NRTL Listed to UL 1203
NRTL Listed to CSA C22.2 No 14, 25, 30

Special Orders - Special Requirements

Contact us for special requirements
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Made in Texas

The EXPSG-SS-TRN-LE1-LV from Larson Electronics is an Explosion Proof Sight Glass LED Light that operates on 12-24V DC and produces 1,320 lumens while drawing only 12 watts. The EXPSG-SS-TRN-LE1-LV is Class I, II and III rated for hazardous areas and is listed for use worldwide including the United States, Canada, Europe and Asia. This explosion proof LED light fixture is offered in a choice of spot or flood beam configuration and operates on 12-24V DC.

The EXPSG-SS-TRN-LE1-LV produces 1,320 lumens of high-intensity LED light for illumination within hazardous areas and potentially explosive work environments. This explosion proof LED light fixture operates on 12-24V DC. The EXPSG-SS-TRN-LE1-LV is available in two lighting configurations: spot or 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 heavy-duty mounting 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 EXPSG-SS-TRN-LE1-LV explosion proof LED light fixture from Larson

Electronics is rated NEMA Type 3, 4, 4X and designed to withstand the rigors of demanding environmental and operating conditions while remaining lightweight and easy to use. These units are waterproof to 3 meter and resist ingress of dust, dirt and humidity. The housings are formed from 316 stainless steel and the lenses are thick tempered glass. The LEDs offer inherent LED resistance to shocks and vibrations.

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.

Mounting: Equipped with adjustable legs at both sides of the unit, the LED light is compatible with several mounting requirements and configurations. For sight glass/surface mounting, the device can be attached directly using a nut, flanged adapter collar or hinged bracket. Bracket components allow robust, angled positioning of the light head. The ATEX rated fixture supports compatibility with circular sight glass fittings (DIN 28120, DIN 28121), weld-neck type MV sight glass fittings, ANSI flange types and visual flow indicators.

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