Larson Electronics LLC
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Product ID: 276334

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.

EHL-LED-ITG-B-75 Explosion Proof LED Handlamp - Group B

Listing: NRTL Certified to United States, Canada, European Union and International
Dimensions: L-20.8" Dia-5"
Total Weight: 14.8 lbs
Lamp Weight: 4.5 lbs
Voltage: 120-277V AC
Total Watts: 30W
Total Lumens: 3,000 lms
Luminous Efficacy: 100 Lm/W
Lamp Life: 50,000+ Hours
Color Temp: 5,000K
Color Rendering Index: 73
Ambient Operating Temperature: -40°C to +50°C
Operating Relative Humidity: 5% to +95% Rh
Housing Material: Aluminum Alloy with Nylon Zytel Handle
Mounting: Handheld with Annealed Aluminum Wire Swivel Hook
Lens Material: Tempered Soda Lime Glass; Frosted
Wiring: 15 Meters 18/3 SOOW Cable
General Area Cord Cap: 5-15, 6-15, L5-15, L6-15, BS1363, Schuko, or Pigtail
YOU CAN RENT THIS UNIT. CONTACT 1-800-369-6671
Click here to view the Explosion Proof Light Design Description

Ratings/Approvals

Certified to NEC, CEC, ATEX, and IEC Ex Standards
Class I, Division 1, Groups B, C, D
Class I, Division 2, Groups A, B, C, D
Class II, Divisions 1 & 2, Groups E, F, G
Class III, Divisions 1 & 2
Ex d IIB T6 Gb/Ex tb IIIC T85°C Db
Zone 1, Zone 21, Zone 2, Zone 22
T6 (C1D1) / T4A (C2D1) Temp Rating
IP66 Weatherproof
IK10 Rated
1.5KV Surge Suppression
360° Illumination
*Group B Certified Handlamp

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The Larson Electronics EHL-LED-ITG-B-75 Explosion Proof LED Handlamp is ideal for

general lighting, detailed tasks and inspections in hazardous locations including group B environments. This 30-watt unit features 3,000 lumens of illumination. A heavy-duty swivel hook at the top of the handlamp offers versatile mounting on poles, indentions and small openings for hands-free operation. A unique angled board design offers 360° of comprehensive lighting. Suitable for hydrogen, refining, chemical processing, aerospace and other group B applications, this explosion proof handlamp is certified to NEC, CEC, ATEX, and IEC Ex standards for worldwide use.

The EHL-LED-ITG-B-75 is designed for handheld or hands-free illumination in hazardous locations and group B environments. This 30-watt unit is compatible with mainstream outlets, operating on 120-277V AC. When in use, the lamp emits 3,000 lumens of white light with a color temperature rating of 5,000K and CRI rating of 73. An angled board configuration inside the unit offers 360° illumination for full lighting requirements. This durable LED handlamp is constructed of non-sparking aluminum, minimizing the possibility of ignition. The hazardous location unit is approved for Class I, Divisions 1 & 2, Class II, Divisions 1 & 2, Zone 1 & 2, and Zones 21 & 22 environments.

This explosion proof handlamp is certified for use in group B environments. The level protection caters to atmospheres that contain hydrogen, gases or vapors of equivalent hazard (such as butadiene, ethylene oxide, propylene oxide and other types of manufacturing gases containing more than 30% hydrogen by volume). Larson Electronics is the only manufacturer in the world that offers a group B certified handlamp.

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.

Field Serviceability: This group B rated explosion proof LED hand lamp fixture is field serviceable. All major internal components (including LED driver and LED board assembly) can be purchased from Larson Electronics and installed by a licensed electrician with basic tools. With most explosion proof fixtures, the fixture must be returned to the manufacturer for repair work, which presents downtime and long turn around times for repair work. Larson Electronics addresses this issue with the EHL-LED series with field serviceability, allowing operators to perform service work without having to return the drop light to the manufacturer in the event of damage or failure. This reduces overall downtime in the event of damage to the light.

Click Photos to Enlarge



5-15 Straight Blade Plug
15 Amp / 125V Rated



L5-15 Twist Lock Plug
15 Amp / 125V Rated



L6-15 Twist Lock Plug
15 Amp / 250V Rated



UK BS1363 Straight Blade Plug
13 Amp / 250V Rated / Internal Fuse



Intl Schuko 2-Pin Plug
16 Amp / 250V Rated / Grounded



Flying Leads / Pigtail Wires

Wiring/Plug: This explosion proof LED handlamp is equipped with 15 meters of 18/3 chemical and abrasion resistant SOOW cord that is fitted with an industrial grade cord cap for easy connection to common wall outlets in non-hazardous, general areas. Plug options include standard 5-15 15 amp straight blade plug for 110V wall outlets with ground, standard 6-15 15 amp straight blade plug for 220-240V wall outlets with ground, NEMA L5-15 15 amp twist lock plug for 125V twist lock outlets, NEMA L6-15 15 amp twist lock plug for 240V twist lock outlets, British BS1363 13 amp fused 3-blade plug for United Kingdom outlets, or a two pin 16 amp rated Schuko plug with ground contact and socket for European outlets up to 250V. Alternatively, we can provide flying leads with no plug for hard wire applications or for operators who prefer to wire in user provided cord caps. Please choose pigtail option below for flying leads with no plug.

The included plug is not rated for hazardous or explosive environments. For maximum safety, operators should only plug the device outside of the hazardous location. We offer explosion proof plugs with group B hydrogen rating at an additional cost.

Mounting: Operators may mount the portable LED handlamp on poles, hooks, corners, indentions, chains and other compatible openings using a sturdy annealed aluminum wire swivel hook located at the top of the unit. This hands-free option allows operators to use both hands for demanding tasks, greatly decreasing time spent inside the hazardous location. Alternatively, operators may hold the group B rated light up using a handle located at the bottom of the lamp. This handheld option is suitable for inspections and temporary, detailed tasks.

Applications: Inspections, aerospace, group B environments, hydrogen plants, chemical processing, fuel sites, portable lighting, tank cleaning, hazardous locations, detailed tasks, industrial facilities, oil refineries, agricultural sites, grain storage centers, food processing 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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Product ID: 276334

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:

-Cord Cap
Example: -5.15

Cord Cap	
5-15 STRAIGHT	-5.15
6-15 STRAIGHT	-6.15
L5-15 TWIST	-L5.15
L6-15 TWIST	-L6.15
UK BS1363	-BS1363
INTL SCHUKO	-Schuko
PIGTAIL	-Pigtail

Links (Click on the below items to view):

- **Wiring Diagram**(https://www.larsonelectronics.com//images/product/WiringDiagram/276334.PDF)
- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/276334.JPG)
- **HigResPic2**(https://www.larsonelectronics.com//images/product/HigResPic2/276334.JPG)
- **HigResPic3**(https://www.larsonelectronics.com//images/product/HigResPic3/276334.JPG)
- **HigResPic4**(https://www.larsonelectronics.com//images/product/HigResPic4/276334.JPG)
- **HigResPic5**(https://www.larsonelectronics.com//images/product/HigResPic5/276334.JPG)
- **HigResPic6**(https://www.larsonelectronics.com//images/product/HigResPic6/276334.JPG)
- **HigResPic7**(https://www.larsonelectronics.com//images/product/HigResPic7/276334.JPG)
- **HigResPic8**(https://www.larsonelectronics.com//images/product/HigResPic8/276334.JPG)
- **Video1**(https://www.youtube.com/watch?v=-SHo0qDzhp8)
- **Video2**(https://www.youtube.com/watch?v=RN8zPKIUaiM)
- **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)