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EPL-SL-8-LED-C1D1-TXF

80W Explosion Proof LED String Lights - 8 lights - 120/277 to 12V DC - C1D1 and C2D1 - Inline Step D

Product ID: 144174

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-SL-8-LED-C1D1-TXF
UL Listing: United States
Dimensions- Each Lamp: L-16.5" Diam-5"
Total Watts: 80
Single Lamp Watt: 10 watts
Voltage: 120-277V AC to 12V or 24V DC
Amps: 0.67 @ 120V AC
Mounting: Handheld / Hanging via Aluminum Hooks
Wiring: 70` 12/3 SOOW Cable, 25` lead - 10` 14/3 input
Total Length: 125`
Single Lamp Weight: 6 lbs
Total Weight: 63 lbs

U.L. Ratings
Class I, Divisions 1 & 2, Groups C, D
Class II, Divisions 1 & 2, Groups, F, G
Class I, Zone 1, Group IIB
NEMA 4X
Stepdown Transformer

Special Orders- Requirements
Contact us for special requirements

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Made in the USA

The Larson Electronics EPL-SL-8-LED-TXF Explosion Proof String Light set with stepdown transformer is approved Class I Division 1 Groups C and D - and is ideal for general close work and inspection activities in hazardous locations requiring explosion proof protection. This explosion proof string light has eight low voltage explosion proof drop lights spaced ten feet apart and an encapsulated step-down inline transformer.

Click here to see the Incandescent version of this light

This explosion proof string light set from Larson Electronics contains a total of eight low

voltage LED 10 watt work lights equipped with aluminum hooks and connected in series along 70 feet of 12/3 SOOW explosion proof cord. A molded T junction is mounted every ten feet, with 3 feet of 14/3 SOOW cord connecting a single drop light to the backbone. A 25 foot tail section of main SOOW cord is included to allow ample length for connection to the inline stepdown transformer. The transformer is encapsulated in a NEMA 4X enclosure, is equipped with a 10 foot line in cable, and equipped with an industrial grade plug.

Click Photo to Enlarge Click Photo to Enlarge Click Photo to Enlarge

This unit incorporates eight explosion proof LED hand lamps connected in series and is suitable for use in areas where petrochemical vapors and various dusts are present. The machined aluminum housings, cast aluminum guard, tempered glass lamp globe, and abrasion resistant cord make this a very durable unit that will resist damage from chemicals, abrasion, vibrations and impacts. This string lighting solution will provide the lighting you require in a flexible, easy to manage configuration. The hand lamps can be moved around and hooked to different points on your scaffold. The lights, however must remain within 10 feet of one other. Each molded T section contains a hook eyelet, allowing operators to suspend the entire backbone off the ground and out of the work space.

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.



100 Watt Incandescent Bulb
Click Photo to Enlarge



With the EPL-SL-10-LED-TXF
Click Photo to Enlarge

This stringer light set is Class I, Division 1 rated for Groups C and D and Class II, Division 1 Groups F and G. This unit is multi-voltage and configured to operate on 120-277V AC stepped down to 12V or 24V DC, please choose your configuration below.

Stringer Energy Consumption Comparison

	Incandescent	CFL	LED
Wattage	1000 watts	260 watts	80 watts
Amp Draw @ 120V AC	8.34 amps	2.17 amps	0.67 amps
Amp Draw @ 277V AC	3.61 amps	0.94 amps	0.29 amps
Lamp Life Expectancy	1,500 hours	8,000 hours	50,000 hours
Color Temperature	2800K	4300K	6000K
Operation cost per year (8hs/day @ 11c/kWh)	$321.2	$83.52	$25.71

Click Photos to Enlarge

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5-15 Straight Blade Plug



5-20 Straight Blade Plug



6-20 Straight Blade Plug

Wiring: This unit is equipped with SO cable leading to an encapsulated step down transformer. There is ten feet of 16/3 SO cable coming out of the inline transformer, and is terminated in an industrial grade cord cap. This inline power supply for this LED string light is an auto sensing universal voltage transformer that operates on any voltage within the 100-277 volts AC 50/60Hz range. This unit allows operators to power the string light from any 120-277V AC power source, and steps down AC voltage to 24V DC. Plug options include a 5-15 15 amp straight blade plug for use with 120V explosion proof outlets, a 5-20 20 amp straight blade plug for use with 120V explosion proof outlets, or a 6-20 20 amp straight blade plug for use with 220-240V explosion proof outlets.
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.

Made in USA Quality

1. Federal Spec Cord.
2. Explosion Proof.
3. Total of (8) 10 watt LED Lamps.
4. Non-sparking aluminum construction.
5. UL Class 1 Div 1 Class 2 Div1
7. 120-277V AC stepped down to 12/24V DC Operation
8. SOOW cable.
9. Aluminum Hooks for Convenient Placement.

Lamp Features

80 watts of LED illumination
Non-sparking aluminum housings
Light weight mold T Juctions
Cast aluminum guard prevent lamp or globe damage
Temptered Soda-Lime Glass Lamp Globe
Integrated lamp shock absorbers prevent drop damage
Swivel hook for hanging and hands free operation
12/3 SOOW Abrasion Resistant Cable

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Frequently Asked Questions (FAQ)









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Product ID: 144174

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-SL-8-LED-C1D1-TXF-Cord Cap-Output Voltage

Example: EPL-SL-8-LED-C1D1-TXF-1523-12VDC

Cord Cap	
5-15	-1523
5-20	-2023-125V
6-20	-2023-250V

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

Links (Click on the below items to view):

- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**
- **CE Certificate**
- **Certificate 1, Misc**
- **Certificate 2, Misc**
- **Certificate 3, Misc**
- **MSDS (Material Safety Data Sheet**
- **RoHS Certificate (Restriction of Hazardous Substances)**
- **USA NEC Certificate (Commonly referred to as UL Certificate)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**