

EPL-TN-FKLT-21W-RED

Explosion Proof Red Forklift LED Warning Spotlight - C1D1 - 21 Watt 1750 Lumens - 9-32V DC

Product ID: 146468

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-TN-FKLT-21W-RED Explosion Proof LED Light

Listing: United States - Canada

Lamp Type: LED (Red)

Dimensions: W-13 1/4" D-12 1/2" H-11 1/2"

Weight: 21 Lbs

Voltage: Universal 9-32 Volts DC

Total Watts: 21 watts

Total Lumens: 1,750

Luminous Efficacy: 83.33 Lm/W

LED Light Color: Red

LED Life Expectancy: 50,000 hours

Light Configuration: Spot or Flood

Led Drive %: 90%

Amps: 1.75 @ 12V DC - 0.875 @ 24V DC

Operating Temp Range: T4 rated

Mounting: Permanent Mount Yolk

Wiring: 3/4" NPT

Ratings/Approvals

Class I, Division 1 & 2, Groups C, D

Class II Division 1 & 2, Groups F, G

Class III, Division 1 & 2

UL 1598

UL 1598A - Marine Type (Saltwater)

UL 844

CSA C22.2 No. 250, 94.0, 213.0, 137.0 & 30.0

NEMA 4X

T4 Temperature Rating

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 the USA

The Larson Electronics EPL-TN-FKLT-21W-RED Low Voltage Explosion Proof Red Forklift LED Warning Spotlight is approved for Class I & II, Divisions 1 & 2 and is rated for use in wet and marine environments. This red LED spotlight is designed to warn pedestrians and bystanders when in the path of an

oncoming forklift. This explosion proof LED light produces 1,750 lumens during output with low amp draw, 50,000 hour service life, and 9 to 32 volt compatibility, providing operators with a versatile and powerful forklift warning safety light.

The EPL-TN-FKLT-21W-RED Red LED Forklift Safety Light from Larson Electronics produces 1,750 lumens of sharp red light while drawing 1.75 amps from a 12 volt electrical system. Seven Edison Edixeon® Emitters three watt LEDs producing 180 lumens each are paired with high purity 10 degree optics to produce a tightly focused spot beam with limited spread or light spillage. Unlike other LED spots, this unit is not a wide spot. The beam on this fixture is so tight, it resembles the pattern of an HID spot (not distance-wise). This fixture is ideal for anyone who is looking for a tight spot light that offers an outstanding life expectancy of 50,000+ hours. We also offer optional floodlight versions with 35 degree optics to produce a wider beam spread approximately 80` long by 70` feet wide, making flood versions ideal for use as work and area lights.

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.



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Standard forklift warning systems consist of strobe lights or audible alarms. Strobe lights may not always be visible with high illumination settings. The strobe lights on forklifts, depending on the position of the light, can be a hindrance to the forklift operator by reducing the visibility due to continual contrasting from the strobe light. Audible alarms, such as backup alarms, are the most disliked warning system for forklifts, especially operators and pedestrians within work forces that have to listen to this alarm continually throughout the work day. Both strobe lights and audible alarms are often ignored due to conditioning of the warning system from day to day exposure. The EPL-TN-FKLT-21W-RED addresses both the above issues, providing a new system that is not obnoxious and will not get on the nerves of employees, while providing the warning indication required by OSHA to keep employees and pedestrians within the work force safe.

This lamp can be easily adjusted up or down and locked into position via a side mounted adjustment knob. The lamp housing is waterproof and constructed of thick copper free aluminum alloy, making it ideal for use in wet and marine environments. The EPL-TN-FKLT-21W-RED lamp assembly includes a 21 watt LED lamp with red LEDs in a copper-free cast aluminum housing with a thermoset powder coat finish. The shell,

covers and sealed fittings are also made of copper-free aluminum. The lens is constructed of thermal shock and impact resistant tempered glass and the housing contains threaded joints lubricated with non-drying lubricant. The LED lamp in this unit has no filament and is thus highly resistant to damage from shocks or impacts, greatly reducing the chances of damage should it be dropped or hit, unlike incandescent lamps which may break or shatter.

Durability: This unit incorporates a 21 watt LED lamp assembly containing seven, 3-watt high output red LEDs producing 180 lumens each and a copper-free cast aluminum housing with a thermoset powder coat finish. The shell, covers and sealed fittings are also made of copper-free aluminum. The lens is constructed of 3/4" thermal shock and impact resistant tempered glass and the housing contains threaded joints lubricated with non-drying lubricant. The LED lamp assembly has no filament and is thus highly resistant to damage from shocks or impacts, greatly reducing the chances of damage should the lamp be dropped or hit, unlike incandescent lamps which may break or shatter. The lamp is rated at 50,000+ hours of life, providing longer service life than typical halogen lamps.

The EPL-TN-FKLT-21W-RED operates on a range of voltages from 9-32 volts DC to provide a lighting solution for areas where explosion proof fixtures are required. This unit's durability, easy mounting, high power and good color rendering of its LED lamp makes it ideal for close work and hazardous areas where safety, detail and accuracy are critical.



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[Click Photo to Enlarge](#)



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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.

Voltage Control: These units are able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels. These forklift warning lights can operate on current ranging from 9 to 32V DC without any modifications necessary as a result. This multi-voltage capability makes these units ideal for forklifts and vehicles where power systems don't always operate with 12 volts and external generators, transformers or inverters are impractical.

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 the USA Quality

1. High Efficiency and Output 21 Watt LED lamp.
2. 21 Watt Red LED Lamp Provides Cooler Operation.
3. Rugged Die Cast Aluminum Lamp Housing.
4. 3/4" Shock Resistant Tempered Glass Lens.
5. Copper Free Shell, Covers and Sealed Fittings.
6. Vibration/Impact Resistant Construction.
7. Low Maintenance.
8. Permanent Adjustable Yolk Type Mounting
9. 50,000+ Hour Lamp Life.
10. UL Listed for Marine Environments.

LED Benefits

1. Long lamp life.
2. High efficiency and low amp draw after initial startup.
3. High durability and reliability.
4. High output and very good color rendering.
5. Vibration and shock resistant.
6. Low maintenance.



Frequently Asked Questions (FAQ)









EPL-TN-FKLT-21W-RED

Product ID: 146468

Export Control Classification Number (ECCN): EAR99

Options:

EPL-TN-FKLT-21W-RED-Beam Config

Example: EPL-TN-FKLT-21W-RED-SP

Beam Config	
SPOT	-SP
FLOOD	-FL

Links (Click on the below items to view):

- [Dimensional Drawing 2D](#)
- [STEP File \(3D CAD Model\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [HigResPic8](#)
- [HigResPic9](#)
- [HigResPic10](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)