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IND-CRN-FSB-1X320SA-ASM

320W High Intensity LED Crane Light - 29,446 lms - Soft Start LEDs - Free Swinging U-bracket Mount

Product ID: 152502

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.

IND-CRN-FSB-1X320SA-ASM High Output Crane LED Light

Lamp Type: CREE XL-L2® LED

Dimensions: -

Watts: 320W

Voltage: Universal Voltage 11-65V DC

Lumens: 29,446

LED Life Expectancy: 50,000 hours

LED Light Color: White

Beam Spread: 10° Spot, 40° Flood, 60° Flood, 30°/60° Elliptical

Optics Efficiency/LED Drive: 90%

Amps: 13.33 (on 12 volts) - 6.665 (on 24 volts)

Ambient Operating Temp: -40°C to +80°C

Materials: Aluminum Housing, Polycarbonate Lens

Mounting: Free Swinging U-bracket Mount

Wiring: Gold Plated Deutsch IPD / LADD DT04-2P connector

Housing Color: Black

Ratings/Features

Automatic Current Sensing and Adjusting

Active Heat Management

IP69K High Temp/Pressure Wash Down

EMC/EMI CISPR 25 Class 3 Rated

Shock Dampening Mounting System

Crane Applications

Special Orders - Special Requirements

Contact us for special requirements

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The IND-CRN-FSB-1X320SA-ASM Crane LED Light offers high output from a compact form factor and is ideal for illumination during crane or lifting

operations. The 320-watt unit provides 29,446 lumens of white light and features sturdy, anti-shock features for resistance against vibration. Equipped with an aluminum housing and a polycarbonate lens, the IP69K rated LED lamp is secured on a free-swining U-bracket mount.

The IND-CRN-FSB-1X320SA-ASM is a high-output LED light for cranes and heavy-duty lifting machines. During use, the LED lamp produces 29,446 lumens of high intensity light while drawing only 320 watts @ 6.665 amps from a 24 volt electrical system. Thirty-two CREE XM-L2® ten watt LEDs producing 920 lumens each are arranged in rows and paired with high purity optics to produce a well focused 10° spot beam that is ideal for providing far reaching concentrated illumination while still covering a substantial amount of area. We also offer optional floodlight versions with a 40° or 60° beam spread to provide more light over a larger area nearer the fixture, making flood versions ideal for use as dedicated work and area lights.

In order to improve resistance against vibration, the LED lamps are protected by anti-shock bushings, located at the ends of the unit. The mounting system is also equipped with anti-shock components to reduce vibration.

IND-CRN-FSB-1X320SA-ASM lights are ideal replacements for fragile and hot running 400 watt metal halide crane lamps. They offer soft start technology, a small profile, low power requirements, high durability and a shock dampening mounting system that makes these LED light emitters a superior lighting solution for rough applications where power and reliability is critical. These LED light bars are waterproof to 3 meters, sealed against intrusion by dust and dirt, and very ruggedly constructed to withstand the most demanding environments, conditions and applications.

Protection: These high output LED light bars feature soft start technology, allowing the LEDs to gradually increase to maximum intensity instead. Low in rush current at start-up reduces wear on associated components, increasing overall life of the internal electronics and improves downtime. Built in redundancy lessens chance of full fixture failure, while the reverse polarity operation protects the fixture from shorting the internal components.

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 90% 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: The drivers in this unit provide the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LED10WSA series light bars can operate on current ranging from 11 to 65 VDC without any modifications necessary as a result. This ability to sense and adjust input current also provides protection against voltage spikes and drops that can occur in vehicle electrical systems which would otherwise result in burning up or premature LED failure without it.

Durability: As well as unparalleled heat control, the LED10WSA series of LED lights from Larson Electronics also offer IP69K rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40°C to +80°C, are waterproof to three meters, can withstand high pressure and high temperature wash downs, and resist ingress of dust, dirt and humidity. The housings are formed from extruded

aluminum and the lenses are unbreakable polycarbonate. The CREE XM-L2® LEDs help these units achieve up to 60Grms rated resistance to vibrations and are rated at 70% lumen maintenance after 50,0000 hours of use. We recommend these LED lights for use in applications that require regular intensive cleaning and are exposed to a lot of vibration, dust, dirt, and abusive working conditions are encountered.

Mounting: This LED crane light is secured on a free-swinging U-bracket mount, which keeps the unit pointed downwards at all times (without manual adjustment), as the crane`s boom moves up and down.

Note: The LED10WSA series feature gold plated DT connectors to provide better conductivity. Most Larson Electronics LEDP5W-30, LEDLB, LEDP3W, LEDP10W, and LED10W series LED spotlights and floodlights are terminated with a Deutsch IPD / LADD DT04-2P connector. The mating connector plug is DT06-2S. Most LEDLB and LED10W series lights ship with mating connector as part of a harness or pigtail, depending on the model. Some larger LED lights like the LEDLB-160X2 or LEDLB-200X2 or multiple function LED lights (i.e. high/low beam, modulating, IR/Visible combos) will have different Deutsch connectors.

Applications: Cranes, construction, shipyards, container loading, harbors, lifting operations, power plants, building repair, structure maintenance 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)







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IND-CRN-FSB-1X320SA-ASM

Product ID: 152502

Export Control Classification Number (ECCN): EAR99

Options:

IND-CRN-FSB-1X320SA-ASM-Beam Config

Example: IND-CRN-FSB-1X320SA-ASM-SP

Beam Config	
10° SPOT	-SP
40° FLOOD	-FL
60° FLOOD	-WF
SPOT & FLOOD	-SpFl

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**