Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

HAL-CRNM-LED10W-MS

10W Chemical Resistant LED Light - C1D2 / C1D2 - Corrosion Resistant - Motion Sensor

Product ID: 147247



Image: HAL-CRNM-LED10W-MS

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.

HAL-CRNM-LED10W-MS Location Non-Metallic LED Light

Unit Type: Explosion Proof Light
Lamp Dimensions (Ceiling Mount): 10.84"H x 4.75"OD
Lamp Dimensions (Wall Mount): 7.3"L x 5.19"W x 12.26"H
Motion Detector Dimensions: 7"-W x 5"-H x 9"-D
Detection: Motion
Detection Coverage: 15` x 15` (when mounted at 16`)
Tilt Angles: -90° to +30° in elevation
Voltage: 120V, 220-240V, 12V DC or 24V DC
Output Hold Time: 0.5 seconds to 15 minutes (Adjustable)
Mains Frequency: 50/60 Hz
Radiated Frequency: 5.8 GHz

Lamp Type: A19 LED
Lamp Watts: 10W
Lumens: 1,050
Luminous Efficacy: 105 Lm/W
Lamp Life: 50,000+ Hours
Color Temp: 6000K, 4500K, 3000K, Red, Blue, Amber, or Green
Color Rendering Index: >80 CRI
Beam Angle: Omni-Directional
Lighting Configuration: Steady Burn
Power Efficiency: >95%
Power Factor: 0.992
Amp Draw: 0.083A @ 120V, 0.042A @ 240V, 0.42A @ 24V
Ambient Operating Temp Range: -50° C to +85°C

Ratings/Approvals

Listed for United States and Canada
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, Groups IIC, IIB, IIA
Class II, Division 2, Groups F, G
IP66
NEMA 3, 4, 4X
NRTL listed to UL 844 HAL-CRNM-LED10W-MS Locations
NRTL listed to UL 1598/UL 1598A Marine
CSA C22.2 No. 137 HAL-CRNM-LED10W-MS Locations
NRTL listed to UL 94-V-0 Flame Retardant
USCG Accepted
ABS Type Approved
New York City Department of Buildings Approved
Motion Sensor

Operating Temp Rating: T2D
Housing Material: Polycarbonate
Lens Material: Hardened Borosilicate Glass
Mounting: Ceiling or Wall
Wiring Hub: 3/4" NPT
Weight: 9 lbs

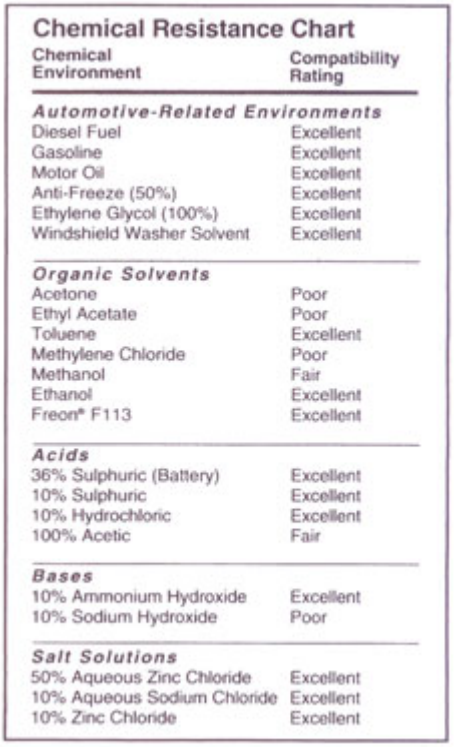
Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

Made in the USA

The HAL-CRNM-LED10W-MS Chemical Resistant LED Light w/ Motion Sensor from Larson Electronics is designed for notification lighting in hazardous locations. This Class I/II, Division 2 rated unit is IP66 waterproof and is capable of detecting movement in a 15` x 15` target area when mounted from 16`. Operators may choose the preferred voltage, mounting system (ceiling or wall) and light color, when ordering the explosion proof luminary.

The durable explosion proof LED light is highly suitable for industrial applications, hazardous work spaces and areas where gases and vapors may be present. The 10-watt LED lamp produces nearly 3 times the illumination of incandescent lamps, as measured in foot candles, at less than 1/10th of electricity usage without the associated heat. The housing on the LED luminary is constructed of corrosion and chemical resistant polycarbonate with Pyrex globe.

The HAL-CRNM-LED10W-MS comes with a powerful motion detection feature that automates the light`s sensing capabilities. The sensor provides up to 15` by 15` coverage when mounted at a height of 16 feet. The detector component is constructed of copper-free, non-sparking aluminum with a glass window for motion detection. This sensor can be adjusted -90° to +30° vertically after installation. The explosion proof housing provides two 1/2" or 3/4" hub openings located on either side of the housing for running electrical conductors in a feed-through configuration. A bushing seal at each conductor opening prevents damage to wiring insulation.



Chemical Resistance Chart

Chemical Environment	Compatibility Rating
Automotive-Related Environments	
Diesel Fuel	Excellent
Gasoline	Excellent
Motor Oil	Excellent
Anti-Freeze (50%)	Excellent
Ethylene Glycol (100%)	Excellent
Windshield Washer Solvent	Excellent
Organic Solvents	
Acetone	Poor
Ethyl Acetate	Poor
Toluene	Excellent
Methylene Chloride	Poor
Methanol	Fair
Ethanol	Excellent
Freon® F113	Excellent
Acids	
36% Sulphuric (Battery)	Excellent
10% Sulphuric	Excellent
10% Hydrochloric	Excellent
100% Acetic	Fair
Bases	
10% Ammonium Hydroxide	Excellent
10% Sodium Hydroxide	Poor
Salt Solutions	
50% Aqueous Zinc Chloride	Excellent
10% Aqueous Sodium Chloride	Excellent
10% Zinc Chloride	Excellent

Click Photo to Enlarge

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.

Applications: Notification lighting, warning system light, entry/exit notification light, security detection system, monitoring system in hallways, paths and rooms in hazardous locations.

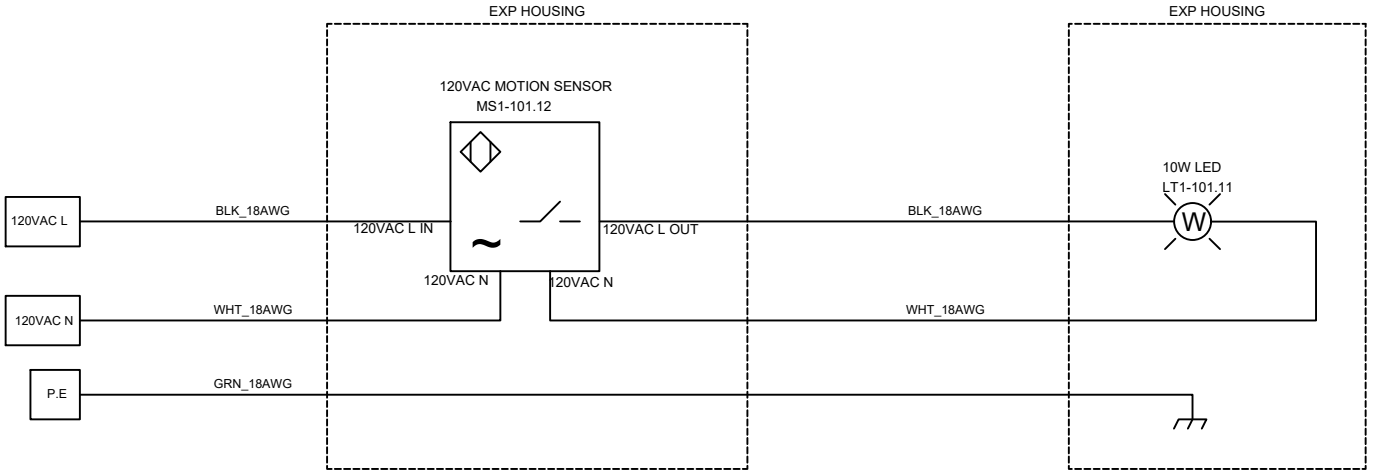
At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, 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.

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	03/30/2021

HAL-CRNM-LED10W-MS-120V-WAL-60K

LARSON ELECTRONICS®



TAGS	QTY	CATALOG	DESCRIPTION
MS1-101.12	1	UNV00006094	120-277V Microwave motion sensor
LT1-101.11	1	UNV00016384	5000K A19 LED 10W STEADY BURN

LARSON ELECTRONICS
9419 E US HWY 175,
KEMP, TX 75143

TITLE: HAL-CRNM-LED10W-MS-120V-WAL-60K

DRAWN BY	DATE	REV
K.NGUYEN	03/30/2021	A
CHECKED BY	SHEET #	DRAWING #
P.CRYER	1 OF 1	101

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Frequently Asked Questions (FAQ)

There are no Faqs