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-PRM-LED-R3-1227-BHL-FM

# 150W Hazardous Location Bulkhead LED Light - C1D2, C2D1 - 120-277V - 22,800 lms/Flat Wall Mount - IP66/Field Serviceable

**Product ID: 277580**



Image: HAL-PRM-LED-R3-1227-BHL-FM

**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-PRM-LED-R3-1227-BHL-FM - Hazardous Location LED Fixture**

**Listing:** NRTL Listed to United States, Canada
**Lamp Technology:** LED
**Dimensions:** 12.6'"-L x 9.8"-W x 5.95"-H
**Weight:** -
**Voltage:** 120-277V AC, 50/60Hz
**Total Watts:** 50W
**Total Lumens:** 7,600 lms
**Luminous Efficacy:** 152 Lm/w
**Lamp Life:** 75,000+ Hours
**LED Color Temperature:** 5000K, 4500K, 4000K, 3500K or 3000K
**Color Rendering Index:** -
**Lamp Type:** Integrated LED
**Lamp Base:** -
**Replacement Lamp:** -
**Beam Angle:** 24°, 60° or 90°
**Lighting Configuration:** Spot or Flood
**Power Efficiency:** >95%
**Power Factor:** 0.992
**Amps:** 1.25A @ 120V, 0.73A @ 208V, 0.69A @ 220V, 0.63A @ 240V, 0.55A @ 277V
**Ambient Operating Temp Range:** -50°C to +65°C
**Operating Temp Rating:** T5
**Housing Material:** Copper Free Cast Aluminum (non sparking)

**Ratings/Approvals**

Class I, Division 2 Groups A, B, C and D
Class II, Division 1 Groups E, F and G
Class II, Division 2 Groups F and G
Class III, Divisions 1 & 2
NRTL Certified to UL 844 Ed. 13
NRTL Certified to UL 1598
NRTL Certified to C22.2 No. 137 Rev 2009
NRTL Certified to C22.2 No. 250.0
NRTL Certified to C22.2 No. 30-M-1986 Rev 2012
IEC 60529 Tested
IP66 Rated Waterproof
Replacement for Fluorescent Bulkhead Fixtures
Field Serviceable

**Special Orders - Special Requirements**

**Housing Finish:** Epoxy Powder Coated - Gray
**Lens Material:** Hardened Borosilicate Glass
**Gasket Material:** Silicone
**Mounting:** Flat Wall Mount Bulkhead- Other Mounts Available
**Wiring Hub:** (4) 3/4" NPT

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 HAL-PRM-LED-R3-1227-BHL-FM Hazardous Location Bulkhead LED Light offers powerful lighting with heavy-duty and energy efficient benefits in Class I, Division 2 rated hazardous locations that contain combustible gases/vapors. This 50-watt LED unit delivers 7,600 lumens and is field serviceable. Compatible with flat wall mount bulkhead installations, the IP66 rated fixture operates on universal 120-277V AC, 50/60Hz and features four 3/4" NPT wiring hubs. This LED unit is recommended for lighting in oil tanker ships, cargo ships, oil rigs and similar hazardous locations requiring bulkhead illumination.**

The HAL-PRM-LED-R3-1227-BHL-FM is a Class I, Division 2 and Class II, Division 1 & 2 bulkhead fixture that is designed for reliable illumination in facilities with hazardous gases/vapors. This 50-watt fixture offers 7,600 lumens of high quality light when installed within the wall or surface of the hull of a vessel, ship, vehicle or large container. This LED fixture is offered in a 24-degree spot, 60-degree flood or 90-degree wide flood beam configuration. Color temperature options for the LED light includes: 5000K, 4500K, 4000K, 3500K or 3000K. This unit is a suitable replacement for fluorescent bulkhead fixtures. Equipped with field serviceable features, the LED assembly is sealed from the driver box, allowing the driver to be changed without impacting the LEDs.

This hazardous location light is protected by a copper-free cast aluminum housing, with an epoxy powder coated gray finish for durability in rugged environments. The non-sparking housing is specially designed to dissipate heat, which increases the efficiency and lifespan of the LEDs and electronic components. Equipped with a hardened borosilicate glass lens, the T5-rated LED fixture carries an IP66 waterproof rating. We can add a downward glare shield to reduce light spillage and for directing light beams in a downward direction at an additional cost.

**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 LED light fixture is field serviceable. All major internal components

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 products that cater to field serviceability, allowing operators to perform service work without having to return the fixture to the manufacturer in the event of damage or failure.

**Voltage:** The hazardous location light is universal voltage capable and can be operated with 120-277V AC, 50/60Hz.

**Wiring:** Four 3/4" NPT hubs at the back of the unit are available for completing wiring connections.

**Mount:** This bulkhead LED light fixture comes standard with flat wall mount bulkhead features. Several mounting options including adjustable trunnion mount, 25-degree angled wall mount, flat ceiling mount, 25-degree angled ceiling mount, or pendant mount can be ordered separately.

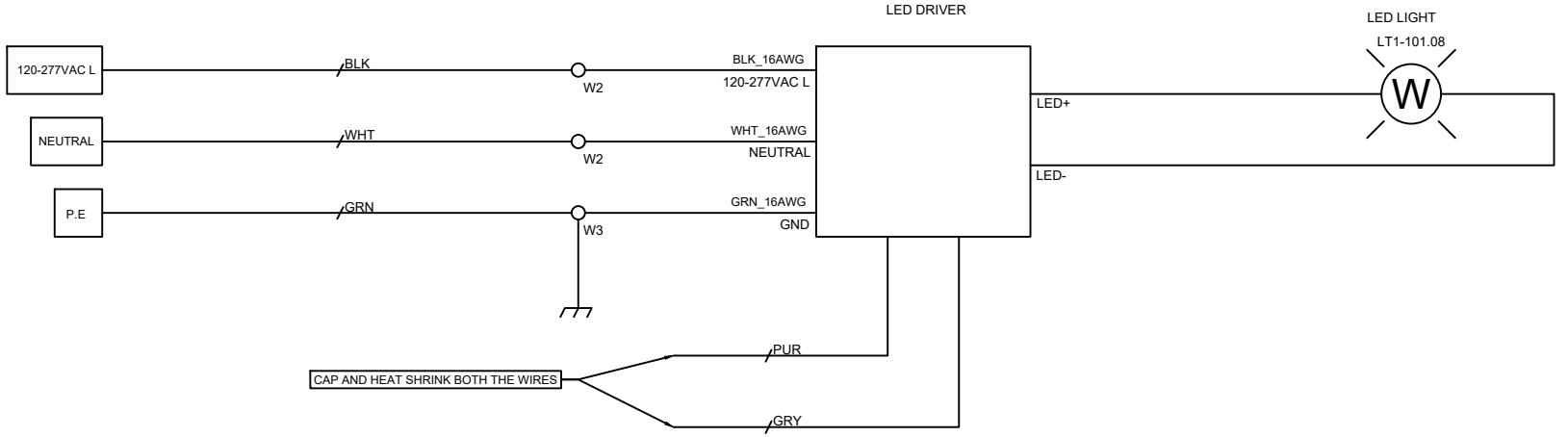
**Suggested Applications:** Hazardous locations, oil drilling rigs, vessels, tanker ships, containers, refineries, solvent and cleaning areas, chemical manufacturing, waste treatment plants, gas processing plants, aircraft maintenance and more.

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.

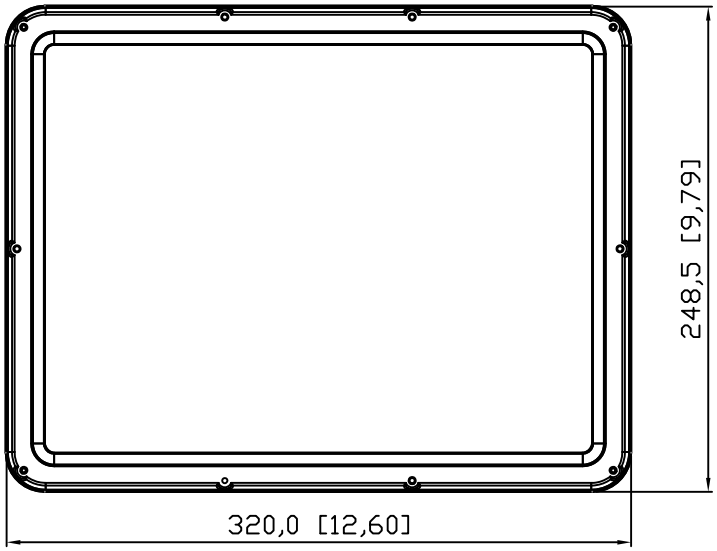
| REV | DESCRIPTION | DATE |
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| A | PRODUCTION RELEASE | 04/29/2022 |

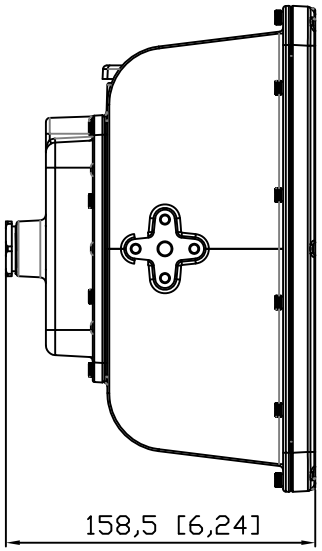
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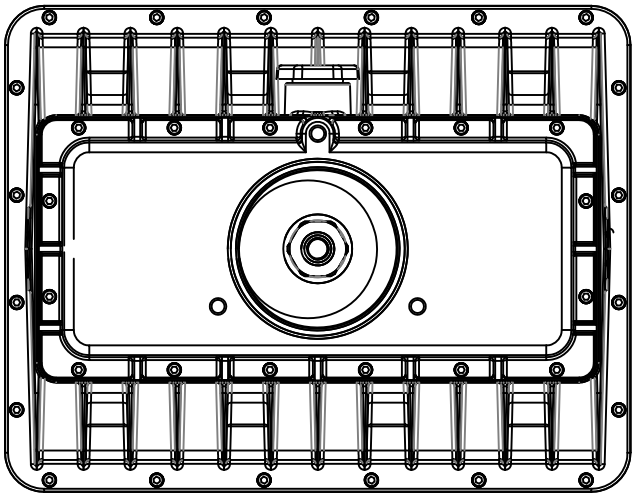
LARSON ELECTRONICS®

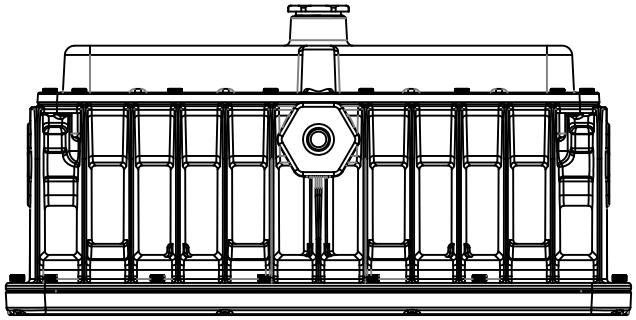



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|---|---|---|---|
| LARSON ELECTRONICS<br>9419 E US HWY 175,<br>KEMP, TX 75143 | TITLE: HAL-PRM-LED-RX-1227 | | |
| | DRAWN BY: S.DESAI | DATE: 8/15/2022 | REV: A |
| | CHECKED BY: K.NGUYEN | SHEET #: 1 OF 1 | DRAWING #: 101 |


248,5 [9,79]
320,0 [12,60]


158,5 [6,24]





# Material Safety Data Sheet

To Whom It May Concern,

Larson Electronics LLC EHL, EPL, EPLC2, HAL, HALP, HALD, HAL-LI, HALS, and HALSS industrial line of LED lights without emergency backup for hazardous locations are considered "ARTICLES" under 29 CFR 1910-1200, the OSHA Hazard Communication Standard, and do not require a Material Safety Data Sheet (MSDS).

Articles are specifically exempt from the regulations of this standard. OSHA defines an article as follows:

1910-1200(c) – Article means a manufactured item other than a fluid or particle:

i. Which is formed to a specific shape or design during manufacture;
ii. Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and
iii. Which under normal conditions does not release more than very small quantities.

The "hazardous location" and "explosion proof" are terminology for the environment where these products will be installed. This is not to be confused with "hazardous materials;" this product does not contain any hazardous materials.

Regards,



Ray Smith
Larson Electronics, LLC.



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## Product Description

**Title:** ELECTRIC LIGHTING FIXTURES FOR USE IN HAZARDOUS (CLASSIFIED) LOCATIONS

**Company:** LARSON ELECTRONICS LLC - Kemp, TX USA

**Product Information:** Trade Name(s): Magna Light., EPL.

Lighting for use in Class I Division 2, Groups A, B, C and D, Class II Divison 1 and 2, Groups E,F and G, Class III hazardous locations, T5. HAL-PRM-LED-R4, HAL-PRM-LED-R1, HAL-PRM-LED-R5, HAL-PRM-LED-R6, HAL-PRM-LED-R2, HAL-PRM-LED-R3, HAL-PRM-LED-R7.

**Evaluated to the following:** A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Electric Lighting Fixtures for Use in Hazardous (Classified) Locations (UL-844) and are identified with the ETL Listed Mark.

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### Contact Us

ETL listed products that are in doubt or for products that do not appear in the directory, please request a verification of certification.
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## Product Description

**Title:** LUMINAIRES

**Company:** LARSON ELECTRONICS LLC - Kemp, TX USA

**Product Information:** Trade Name(s): Magna Light, EPL.

Surface-mounted Luminaire, Model Nos. Model Nos. HAL-PRM-LED-R4-1227, HAL-PRM-LED-R4-4748, HAL-PRM-LED-R4-1247, HAL-PRM-LED-R1-1227, HAL-PRM-LED-R1-4748, HAL-PRM-LED-R1-1247, HAL-PRM-LED-R5-1227, HAL-PRM-LED-R5-4748, HAL-PRM-LED-R5-1247, HAL-PRM-LED-R6-1227, HAL-PRM-LED-R6-4748, HAL-PRM-LED-R6-1247, HAL-PRM-LED-R2-1227, HAL-PRM-LED-R2- 4748, HAL-PRM-LED-R2-1247, HAL-PRM-LED-R3-1227, HAL-PRM-LED-R3-4748, HAL-PRM-LED-R3-1247, HAL-PRM-LED-R7-1227, HAL-PRM-LED-R7-4748, HAL-PRM-LED-R7-1247.

**Evaluated to the following:** A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Luminaires (UL-1598) and are identified with the ETL Listed Mark.

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## Product Description

**Title:** ELECTRIC LUMINAIRES FOR USE IN HAZARDOUS LOCATIONS

**Company:** LARSON ELECTRONICS LLC - Kemp, TX USA

**Product Information:** Trade Name(s): Magna Light.

Lighting for use in Class I Division 2, Groups A, B, C and D, Class II Divison 1 and 2, Groups E,F and G, Class III hazardous locations, T5. Model Nos. HAL-PRM-LED-R4, HAL-PRM-LED-R1, HAL-PRM-LED-R5, HAL-PRM-LED-R6, HAL-PRM-LED-R2, HAL-PRM-LED-R3, HAL-PRM-LED-R7.

**Evaluated to the following:** A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Electric Luminaries for Use in Hazardous Locations (CAN/CSA-C22.2 No. 137) and are identified with the cETL Listed Mark.

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## Product Description

**Title:** LUMINAIRES

**Company:** LARSON ELECTRONICS LLC - Kemp, TX USA

**Product Information:** Trade Name(s): Magna Light.

Surface-mounted Luminaire, Model Nos. HAL-PRM-LED-R4-1227, HAL-PRM-LED-R4-4748, HAL-PRM-LED-R4-1247, HAL-PRM-LED-R1-1227, HAL-PRM-LED-R1- 4748, HAL-PRM-LED-R1-1247, HAL-PRM-LED-R5-1227, HAL-PRM-LED-R5-4748, HAL-PRM-LED-R5-1247, HAL-PRM-LED-R6-1227, HAL-PRM-LED-R6-4748, HAL-PRM-LED-R6-1247, HAL-PRM-LED-R2-1227, HAL-PRM-LED-R2-4748, HAL-PRM-LED-R2-1247, HAL-PRM-LED-R3-1227, HAL-PRM-LED-R3-4748, HAL-PRM-LED-R3-1247, HAL-PRM-LED-R7-1227, HAL-PRM-LED-R7-4748, HAL-PRM-LED-R7-1247.

**Evaluated to the following:** A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Luminaires (CAN/CSA-C22.2 No. 250.0) and are identified with the cETL Listed Mark.; A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Luminaires (CAN/CSA-C22.2 No. 250.0) and are identified with the cETL Listed Mark.

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# Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

**Declare the following equipment conforms to the standard(s) as listed:**

Model: HAL-PRM-LED Series
Description: Hazardous Area Flood LED Light

**Evaluated Listings:**

**CE:** DIRECTIVE 2014/35/EU - LOW VOLTAGE DIRECTIVE
**CE:** DIRECTIVE 2014/30/EU - EMC DIRECTIVE
**CE:** Regulation (EC) No 1907/2006 - REACH REGULATION
**CE:** DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

The HAL-PRM-LED Series complies with the essential protection requirements of the European Parliament of the Council Directive for Low Voltage Directive, EMC Directive, REACH Regulation, and RoHS Directive. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager


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# Certification

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Kemp, Texas 75143

**Declare the following equipment conforms to the standard(s) as listed:**

Model: HAL-PRM-LED Series
Description: Hazardous Area Flood LED Light

**Evaluated Listings:**

**CE:** Regulation (EC) No 1907/2006 - REACH REGULATION
**CE:** DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

This is to certify that products offered by Larson Electronics LLC comply with the Reduction of Hazardous Substances (RoHS) directives. Directive 2002/95/EC became effective on 1 July 2006. It restricts the use of six substances in the manufacture of electrical and electronic equipment. This directive was revised in June 2011 and is now referred to as directive 2011/65/EU. Directive 2015/863/EU amending Annex II to Directive 2011/65/EU announced plans to add four substances from 22 July 2019.

We hereby certify that the equipment specified above conforms to the Directive(s) by containing less of the restricted substances than the stated limits.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager



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**Declare the following equipment conforms to the standard(s) as listed:**

Model: HAL-PRM-LED Series
Description: Hazardous Area Flood LED Light

**Evaluated Listings:**

**CE:** Regulation (EC) No 1907/2006 - REACH REGULATION

This letter establishes the opinion of Larson Electronics LLC regarding the status, under the current European Union ("EU") Regulations on Registration, Evaluation, Authorization, and Restriction of Chemical Substances ("REACH").

REACH does not apply to manufactured products which are referred to as "completed articles". Substances (chemicals) are subject to REACH registration, NOT products.

In addition, Articles are exempt from the REACH requirements if (a) the Article does not contain a substance of very high concern or candidate substance in an amount exceeding 0.1% weight by weight, and (b) if substances present in the Article in excess of 1 ton per year per importer are not expected nor intended to be released.

Based on communication with our raw material suppliers, we conclude that to the best of our knowledge our products requiring REACH compliance do not contain any of the currently listed SVHC in concentrations of 0.1% or above.

Accordingly, we foresee no registration or pre-registration requirement for the products we supply.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager



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**Declare the following equipment conforms to the standard(s) as listed:**

Model: HAL-PRM-LED Series
Description: Hazardous Area Flood LED Light

**Evaluated Listings:**

**FCC:** Radio Frequency Emission & Authorization Status

The HAL-PRM-LED Series complies with Federal Communications Commission requirements for Radio Frequency Emission & Authorization Status. This product is not capable of emitting rf energy and does not require FCC authorization. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager


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# Frequently Asked Questions (FAQ)

There are no Faqs