

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



HAL-ANC-60-120W-ITG-1224 Explosion Proof LED Fixture

Listing: United States - Canada

Dimensions: 5.76"W x 57.9"L x 3.92"H

Weight: 36.5 lbs

Voltage: 12-24V DC

Total Watts: 120 watts

Total Lumens: 16,467 (clear lens) 15,090 (frosted lens)

LED Lamp Life Expectancy: 212,000+ Hours

Luminous Efficacy: 137.225 Lumens per Watt

Color Temp: 5000K

Color Rendering Index: >70

Beam Angle: 160°

Ambient Operating Temp Range: -30°C to +65°C

Operating Temp Rating: T6 Rated

Minimum Operating Temp: -30°C

Maximum Case Temp: +65°C

Housing Material: Copper Free Extruded Aluminum

Lens Material: Impact Resistant Polycarbonate

Lens Options: Clear or Frosted

Gasket Material: Temperature Rated Silicone

Mounting: Slot, Swivel, Wall or Ceiling Brackets, Beam Clamps

Wiring Hub: 1/2" NPT

Signal Converter Specs

Watts: 0.5W

Input Voltage: 90-306V AC or 127-431V DC @ 47- 63Hz

Current: 0.1A

Input Signal: DALI or Push Dim

Output Channels: 4

Output Signal: PWM

Output Logic: Active High or Active Low

Dimming Range: 1-100%

Relay Switch: 240V AC, On/Off

Operating Temperature: -30? to +60?

Housing Material: Fully Isolated Plastic

Connection: Terminals (TB1, TB2 and JP1)

Analog Output Module Specs

Dimensions: 1.41" x 3.88" x 3.1"

Ratings/Approvals

Class I, Division 2 Groups A, B, C, D

Class I, Zone 2 Groups IIC, IIB & IIA

UL 844 for Hazardous Locations

ANSI/UL 1598(A) Marine Type (Saltwater)

UL 8750 for LED Lighting

CSA C22.2 No. 137-M1981

IEC Certified for Zone 2 & Zone 21

AEx nAII, Ex nAII

Ex nA IIC T6 to T3, Gc

Ex tb IIC T95°C Db

Tamb -50°C = Tz = +65°C

ATEX Certified

ABS Approved

IP66 Waterproof

T6 Temperature Rating

NEMA 3, 4X

No Glass - Group G - Food Suitable

Password Protected Network Controls

No Programming Required

Modbus TCP/IP Connectivity

DALI or Push Dim

PWM Output Signal

Dimmable

Weight: 4.8 oz

Network Type: 10/100 Base-T Ethernet Port (Static IP address assignment or DHCP, HTTP Port Selectable)

Protocols: HTTP, XML, Modbus TCP/IP

Voltage: 9-28V DC

Max Current: 92mA-163mA @ 24V DC (10 Mbps Network Speed; 126mA-198mA @ 24V DC (100 Mbps Network Speed)

Configurable Channels: 5

Output Ranges: 0-5V, 0-10V, $\pm 5V$, $\pm 10V$, 4-20mA (Software Selectable)

Resolution: 16-bit DAC (0-65535)

Current Output (Voltage Mode): 10mA Max (Min Load = 1K), 30mA Max Short Circuit

Voltage Output Inaccuracy: $\pm 0.2\%$ FSR Includes Offset Error, Gain Error and Non-linearity Error

Max Load Capacitance: 20nF (no load), 5nF (1K load)

Current Output Range: 4-20mA

Output Compliance Voltage: 11.50V Minimum

Isolated Power Supply: Internal DC to DC Converter

Isolation: Galvanic, 1500V AC

ESD Protection: Integrated, 15kV Protection

Output Protection: Integrated Over-temperature, Open-line and Short Circuit Protection

Output Alarms: Open Current Loop, High Internal Temperature

Output @ Power Up: Programmable

LED Indicators: (8) Power On, Fault Condition (Channels 1-5), Network Linked, Network Activity

Operating Temperature: -40°C to 65.5°C

Housing Material: Lexan 940 Polycarbonate Plastic

Mount: Surface, Wall or DIN Rail

Password Protection: Yes @ Setup (Base 64 Encoding, 13 Characters)

Connectors: 12-position/Removable (Power/Outputs), 8-pin RJ-45 (Network)

Special Orders- Requirements

Contact us for special requirements

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The Larson Electronics HAL-ADC-60-120W-ITG-LED-DIMM-1224 Hazardous Location Integrated LED Fixture provides powerful illumination in combustible environments. Equipped with a DALI-PWM signal converter, the 250-watt LED lamp operates on 12V DC or 24V DC and emits 16,467 lumens (clear lens) during use. Controls for the dimmable explosion proof LED unit is facilitated by an analog output module using Modbus TCP/IP protocol. No programming is required during setup.

The Larson Electronics HAL-ADC-60-120W-ITG-LED-DIMM-1224 120 Watt Explosion Proof Linear LED Light generates almost double the lumens of a standard fluorescent fixture and provides crisp white light and high chromaticity for excellent color rendering but uses significantly less energy and produces less heat than fluorescent lighting. Measuring only 3.92" tall and 4.83" long and weighing less than 40 lbs, this extremely low profile 120 watt LED fixture delivers 16,467 lumens and operates on 12V DC or 24V DC. The HAL-ADC-60-120W-ITG-LED-DIMM-1224 produces both more light output and superior quality light than traditional fluorescent lighting fixtures while at the same time offering substantially reduced energy use and increased reliability, longevity, and safety.

Aevum Network Controlled Lighting Solution: The Aevum Network Controlled Lighting Solution from Larson Electronics enables connected and intelligent illumination using cutting-edge and existing networks. Using Modbus TCP/IP or DALI (for fixtures with dimming features), businesses can seamlessly control lights and sensors from remote locations, without traditional light switches. Web-based panels facilitate real-time monitoring of connected equipment and allows operators to switch units on/off, configure activation settings and more. Businesses may utilize their own systems and software with these controllers, ensuring robust flexibility and cost savings (no contracts). The Aevum Network

Controlled Lighting Solution can improve productivity in the workplace by automating basic lighting controls and making lighting controls widely accessible in the facility, via local networks or the internet. Operators also have the option to monitor the status of fixtures from a remote location, which can improve maintenance and reduce downtimes. Larson Electronics offers equipment and accessories required for a DALI network.

Controls: Controls for the explosion proof LED fixture is accessible using a web-based control panel. Compatible with HTTP, XML, or Modbus TCP/IP protocols, network configuration is accessible using web-based pages (no programming required). Operators can monitor or setup controls from a remote area using the internet or local IP network and any standard web browser. Protective features include: integrated 15kV protection (ESD protection), integrated over-temperature, open-line and short circuit. Output alarms can be set for open current loop and high internal temperature. LED indicator lights on the device provide the real-time information about power, fault condition for all 5 channels and network link/activity. Password protection for the setup page is available (13 characters maximum). Operators can upload scripts during setup using the web-based panel.

Signal Converter: The explosion proof LED lighting system is equipped with a signal converter, which converts DALI signals to PWM signals. This component features built-in push dim functionality and a comprehensive dimming range of 1-100%. A total of four output channels can be found on the DALI-PWM signal converter. Selectable output PWM logic includes active high (factory setting) or active low.

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.

Durability: The 120 watt LED is protected by a single impact and vibration resistant polycarbonate lens with a frosted finish to reduce glare or a clear finish to maximize light output and the LED assembly is housed within a low profile one piece copper-free extruded aluminum body designed to withstand hazardous and harsh conditions.

Wiring/Power: A one wiring access plate makes for easy access to driver lead, and high temperature rated silicone gasketing between the lens and the housing provides NEMA 4X and IP66 sealing. Both the housing and the external screws are constructed to resist moisture, corrosion, ingress of dust and particles as well as being vibration and weather resistant. In addition to the rugged lens and body, the HAL-ADC-60-120W-ITG-LED-DIMM-1224 comes equipped with supplemental 20kA/10kA surge protection.

Network: The analog output module is equipped with five configurable channels. This unit works with 10/100 Base-T ethernet ports and allows static IP address assignment or DHCP, HTTP port selectable during setup. Compatible with 9-28V DC, the module features a 12-position, removable connector for power and outputs, as well as an accessible 8-pin RJ45 port. Operators can mount the device on walls, surfaces or din rails for space-saving benefits.

Mounting: The HAL-ANC-60-120W-ITG-1224 is designed to accommodate a variety of mounting options include swivel brackets, wall and ceiling brackets, or

beam clamps. The slot back design of the lamp allows multiple mounting access points across the length of the lamp. These slots can be used with 5/16" or 8mm bolts and nuts, three housing slots, one center back, and two at 45°. The end caps of the fixture each have two mounting feet built in, plus a safety strap attachment point. Additionally, each end cap features a 3/4" NPT hub, and the fixture comes furnished with one 3/4" close-up plug and two 3/4" to 1/2" reducers which provide 1/2" dead-end to 3/4" feed through flexibility.

The HAL-ANC-60-120W-ITG-1224 is a tough, durable, and low to no maintenance alternative to traditional fluorescent lighting. Its versatile power and mounting options, extreme longevity, low energy consumption, high light output, ultra low profile, and rugged lens and body design make it ideal for a variety of applications including, but not limited to: both land based oil rigs and offshore oil platforms, chemical and petrochemical processing facilities, sewage treatment plants, garages, storage facilities, tunnels, and grain/food facilities. In addition, the HAL-ADC-60-120W-ITG-LED-DIMM-1224 carries ABS type approval for marine applications including use on decks, vessels, platforms, barges, ships, boats, and is suitable for dock and marina operations.

Suggested Applications: Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste treatment plants, gas processing plants.

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.



Frequently Asked Questions (FAQ)

Options:

-Diffusion

Example: -CLR

Diffusion	
CLEAR	-CLR
FROSTED	-FRST

Links (Click on the below items to view):

- [ISO 9001 Certification](#)
- [Business Certificate](#)