

EXP-LX-V1-48

Explosion Proof Safety Light Curtain - Class I, II, III, Div 1&2 - 24V DC - 45' Range - Solid State

Product ID: 150570

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.

EXP-LX-V1-48 Explosion Proof Light Curtain

Unit Type: Explosion Proof Safety Curtain

Dimensions: -

Weight: -

Watts: 14W

Voltage: 24V DC +/- 20%

MPCE Monitoring Circuit: 50 mA Steady State @ 24V DC

Start/Restart Input Circuit: 20 mA @ 24V DC

LED Type: GaAlAs LED, 850 nm

Resolution: 0.55", 0.75" or 1.18"

Operating Range: 1' to 45' (0.75" or 1.18" Resolutions Only)

Protected Height: 13.8" to 48"

Response Times: Varies w/ Protected Height

Effective Aperture Angle: ±2.5° Maximum (Transmitter/Receiver OP Range > 9.8')

Indicator: Transmitter- Power Applied, Receiver- Machine Run, Machine Stop, Interlock/fault, Channel Select/Floating Blanking, Individual Beam

Operating Temp: 0°C to 55°C (32°F to 131°F)

Relative Humidity: 95% Maximum, Non-condensing

Materials: Cast Aluminum, 357-T6 Aluminum Alloy

Mount: Surface

Cable Connections: Receiver- 8-pin, Transmitter- 3-pin Standard, 5-pin w/ MTS (Not Included)

Features/Ratings

Class I, Div. 1&2, Groups C,D

Class II, Div 1, Groups E,F,G

Class II, Div 2, Groups F,G

Class III

ATEX Directive 94/9/EC Certificate Number DEMKO 04

ATEX 0322237U

NEMA 3,4,4X,7,9,12

IP66

Float Blanking

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics EXP-LX-V1-48 Explosion Proof Safety Light Curtain is an automated, solid-state safety system for machines in combustible work sites. Consisting of a transmitter and receiver, the 24V DC system provides protection at heights ranging between 13.8" and 48". Both explosion proof components are constructed of cast aluminum.

The EXP-LX-V1-48 is a cutting-edge safety light curtain for hazardous locations and flammable environments. This 24V DC system consists of a transmitter and a receiver, which provides automated detection of movements around machines.

The solid-state, 14-watt system is capable of protection at heights between 13.8" and 48" with 0.55", 0.75" or 1.18" resolutions. Operating range includes 1' to 45' for 0.75" and 1.18" resolutions. During use, operators can select automatic start or start/restart interlock mode, which is suitable for point-of-operation or perimeter guarding configurations.

In float blanking mode, up to two beams can be blocked within the desired zone.

This explosion proof system is constructed of cast aluminum. For protection against water and dust, the components are NEMA and IP66 rated.

Mounting/Wiring: The EXP-LX-V1-48 is compatible with surface mount configurations. An 8-pin connection for the receiver and a 3-pin standard connection for the transmitter are available. When used with an MTS (not included), a 5-pin connection for the transmitter can be used. No cable is needed between the explosion proof transmitter and receiver.

Applications: Hazardous locations, safety systems, waste water plants, industrial printing, distillation facilities, pharmaceuticals, laboratories, chemical processing 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.

Frequently Asked Questions (FAQ)

EXP-LX-V1-48

Product ID: 150570

Export Control Classification Number (ECCN): EAR99

Options:

EXP-LX-V1-48-Resolution

Example: EXP-LX-V1-48-0.55IN

Resolution	
0.55 IN	-0.55IN
0.75 IN	-0.75IN
1.18	-1.18IN

Links (Click on the below items to view):

- [SpecSheetSpanish](#)
- [HigResPic1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)