

EXP-MS-30W-N4X

Explosion Proof Motion Sensor - 11.5' to 25' Mounting Height - 13' x 16' Area Coverage

Product ID: 105995

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



EXP-MS-30W-N4X - Explosion Proof Motion Sensor

Listing: United States

Dimensions: 7"-W x 5"-H x 9"-D

Detection: Motion

Detection Coverage: 13' x 16' (when mounted at 16')

Tilt Angles: -90° to +30° in elevation

Max Contact Voltage: 42V AC/DC

Max Contact Current: 1A (resistive)

Max Switching Power: 30W (DC) / 60VA (AC)

Output Hold Time: 0.5-9 seconds (Adjustable)

Reaction Time: 100 ms

Minimum Detection Speed: 2.2in/s

Mains Frequency: 50/60 Hz

Ambient Temperature Range: -22°F to +140°F

Radiated Frequency: 24.125 GHz

Transmitter Radiated Frequency: <20 dBm, EIRP

Radiated Power Density: <5 mW/cm²

Certifications - Compliance

Class I, Division 1 & 2, Groups B, C, D

Class II, Division 1 & 2, Groups E, F, G

Class III

Class 1, Zone 1, AEx d IIC

EExd IIC, IP66

NEMA 4X

NEMA 7 (Groups B, C, D)

NEMA 9 (Groups E, F, G)

EMC: 2004 / 108 / EC

R&TTE: 1999 / 5 / EC

Special Orders - Requirements

Contact us for special requirements

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The Larson Electronics EXP-MS-30W-N4X Explosion Proof motion sensor is approved Class 1 Division 1 & 2 and Class 2 Division 1 & 2 and the ability to power lights or other equipment within hazardous locations based on motion triggers.

This explosion proof motion sensor is ideal for operators seeking a high quality explosion proof motion sensor rated for use in hazardous areas designated Class 1 Division 1 and Class 2 Division 1. This explosion proof motion detector can be mounted at heights ranging from 11.5' up to 23' above the ground and provides up to 13' by 16' coverage when mounted at 16'. The entire unit is constructed of malleable non sparking aluminum construction with a glass window for viewing the indication lights inside. This unit is easily wall mounted via integral mounting bracket, which 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.

This unit leverages cutting-edge microwave sensors to detect motion. When in use, the device sends out discreet waves that are reflected back from nearby walls

and objects (not heat or light). Microwave sensors are not affected by line of sight, resulting in wider and more accurate coverage of the target area. By comparison, traditional infrared sensors can only detect heat and light (factors used to identify movement) within the unit's field of view. Microwave sensors also provide stable performance in unpredictable climates and can penetrate glass, plastic and other non-metallic objects.

[Click Photo to Enlarge](#)

[Click Photo to Enlarge](#)

[Click Photo to Enlarge](#)

This unit is designed to operate on low voltage 12-24V AC or DC electrical systems, and is suitable for use in environments where combustible dusts and particulates may be present.

1/2" or 3/4" NPT tapped conduit openings are provided on either of the unit in feed through versions while dead end versions have a single conduit hub, providing easy and secure connection to main power line supplies.

Suggested Applications: Manufacturing, Industrial, Warehouse, Lighting, Lighting, Wet areas or Locations Where Combustible Dust is Present.

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)









Links (Click on the below items to view):

- [ATEX Certificate \(European Explosion Proof\)](#)
- [Canadian CEC Certificate \(Commonly referred to as CSA Certificate\)](#)
- [CE Certificate](#)
- [Certificate 1, Misc](#)
- [Certificate 2, Misc](#)
- [Certificate 3, Misc](#)
- [IEC Ex Certificate \(International Explosion Proof\)](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [Operations Manual](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [SpecSheetSpanish](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [HigResPic8](#)
- [HigResPic9](#)
- [HigResPic10](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)