

EXP-AKC-MS-N4X-AT-LV-24V

Explosion Proof Motion Sensor - 10' to 20' Mounting Height - 15' x 15' Area - Adjustable Timer - 24V - KNX

Product ID: 257516

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-AKC-MS-N4X-AT-LV-24V Explosion Proof Adjustable Motion Sensor

Listing: NRTL Listed for United States, Canada; IECEx/ATEX Rated

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

System Voltage: 24V DC

Maximum Amperage: 5A

Aux Voltage: 12V DC + 1.6 SELV

Aux Current: 13mA to 43 mA

KNX Input/Output: (2) Inputs, (2) Outputs

KNX Connections: Bus Connection Terminal (KNX - Black/Red), Screw Terminals (Aux Voltage, Inputs and Outputs)

No Load Current: 1W, 0.09A @ 12V, 0.045A @ 24V

Output Hold Time: 0.5 seconds to 15 minutes (Adjustable)

Mains Frequency: 50/60 Hz

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

Radiated Frequency: 5.8 GHz

Ratings / Features

Listed for United States & Canada

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

Class I, Zones 1 & 2, Groups IIB+H2, IIA

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

Class III, Divisions 1 & 2

NEMA 3R, 4, 7 (B, C, D), 9 (E, F, G)

NRTL Listed to UL 508A

NRTL Listed to UL 1203

NRTL Listed to CSA C22.2 No 14, 25, 30

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

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E-mail: sales@larsonelectronics.com

The Larson Electronics EXP-AKC-MS-N4X-AT-LV-24V Explosion Proof Motion Sensor is approved for Class I, Divisions 1 & 2 and Class II, Divisions 1 & 2 rated locations and provides the ability to power lights or

other equipment within hazardous locations based on motion. This low voltage motion sensor features adjustable sensitivity, time delay after motion and compatibility with KNX systems.

This low voltage explosion proof motion sensor is ideal for operators seeking a high quality explosion proof motion sensor rated for use in hazardous areas designated Class I, Division 1 and Class II, Division 1. This explosion proof motion detector can be mounted at heights ranging from 10' up to 20' above the ground and provides up to 15' by 15' coverage when mounted at 16'. The entire unit is constructed of copper free non-sparking aluminum construction with a glass window for motion detection. 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.



EXP-MS-N4X-AT in operation. [Click Here to view our Flex Couplers available for purchase.](#)
[Click Images to Enlarge](#)

KNX Connections: This motion sensor operates on 24V DC and features two monitored inputs, as well as two monostable relay outputs. The explosion proof interface is suitable for sending output signals from the motion sensor to upstream systems. This unit contains bus terminals (black/red) for connection with KNX components. Screw terminals are provided for connecting auxiliary voltage, inputs and outputs.



[Motion Detected Through a Wall](#)

Hubs: 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.

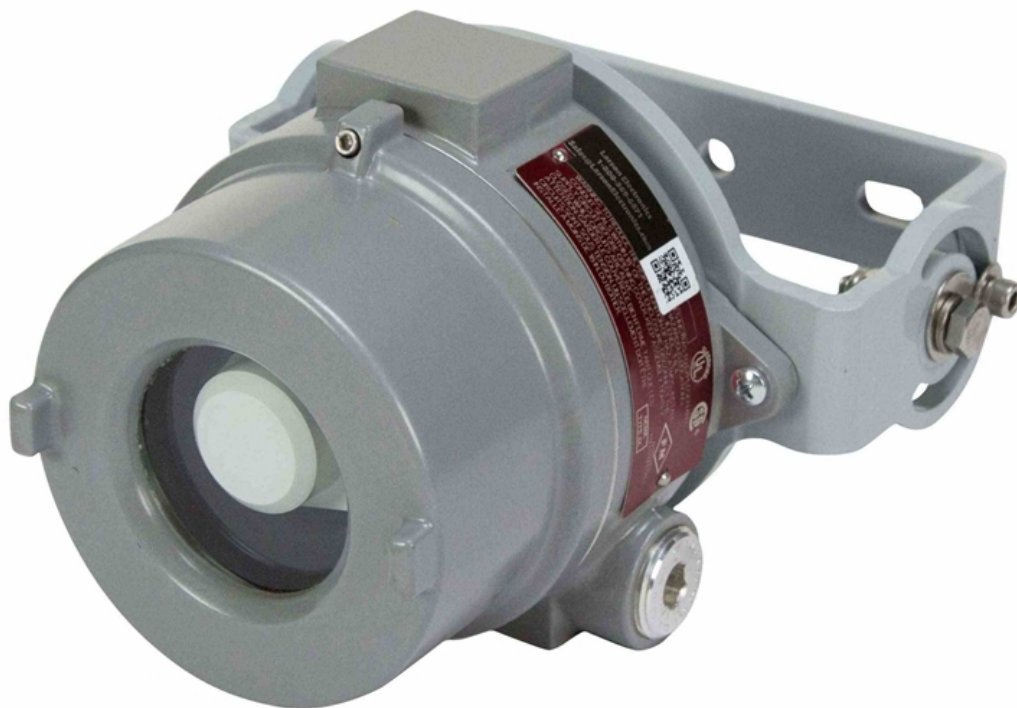
Suggested Applications: Manufacturing, Industrial, Warehouse, Lighting, Lighting, Wet areas or Locations Where Combustible Dust is Present.

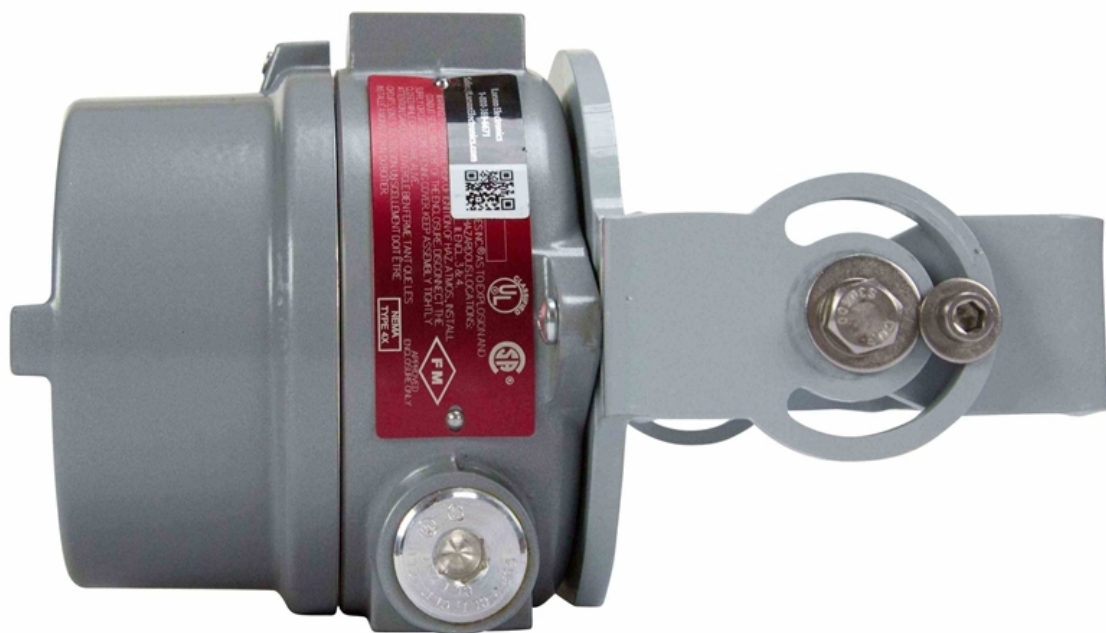
At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to

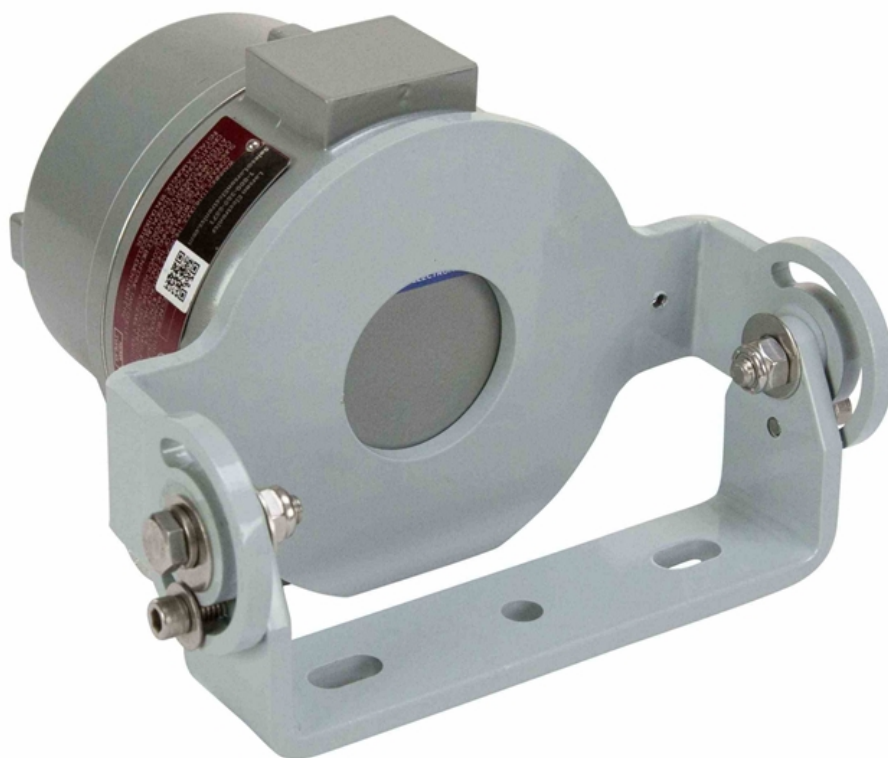
honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

Frequently Asked Questions (FAQ)









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Product ID: 257516

Export Control Classification Number (ECCN): EAR99

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](#)
- [Certificate 4, Misc](#)
- [IEC Ex Certificate \(International Explosion Proof\)](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [HigResPic8](#)
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- [HigResPic10](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)