

EXP-MS-N4X-AT-HV-V2M

Explosion Proof Motion and Light Sensor - 18M Max Mounting Height - 15M x 15M Detection Zone

Product ID: 280462

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-MS-N4X-AT-HV-V2M Explosion Proof Motion and Day/Night Sensor

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

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

Detection: Motion, Motion+Day/Night

Detection Coverage: 15M x 15M - Maximum

Tilt Angles: 150° - Wall; 360° - Ceiling

System Voltage: 120V AC - 277V AC 50 Hz

Rated Load: 120V @ 400W; 220-240V @ 800W; 277V @ 1000W

Transmitting Power: <0.5mW

Wiring: Flying Leads

Power Consumption: =0.5W (Standby)

Motion Detection: 0.5~3m/s

Output Hold Time: 5s / 30s / 90s / 3min / 20min / 30min

Daylight Sensor: 5Lux/ 15Lux /30Lux /50Lux /100Lux / Disable

Ambient Temperature Range: -20C ~ 60C

Radiated Frequency: 5.8GHz ± 75MHz, ISM Wave Band

Mounting Distance: 18 meters (Ceiling), 98.4' (Wall)

Color: Gray

Ratings/Approvals

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

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The Larson Electronics EXP-MS-N4X-AT-HV-V2M Explosion Proof Motion and Day/Night Sensor is approved Class I, Division 1 and Class II, Division 1 flammable work sites. This device, which is capable of

detecting both motion and ambient light, is an energy efficient and automated solution to lighting controls in industrial facilities. The explosion proof unit can be mounted on ceilings or walls and features compatibility with 120-277V AC (universal).

The EXP-MS-N4X-AT-HV-V2M is ideal for operators seeking a high quality explosion proof motion and day/night sensor rated for use in Class I, Division 1 and Class II, Division 1 flammable work sites. This explosion proof unit operates on 120-277V AC 50 Hz (universal) and features the following modes: Disable and Sensor. For motion detection, the sensor can detect movement at a rate of 0.5~3m/s. When connected to a fixture, the sensor ensures the lamp stays off when ambient light in the area is sufficient. At night, as the sensor detects insufficient ambient light in the environment, the device engages the fixture to turn on when motion is detected. During operation, the sensor adheres to the configured hold time. When motion is detected and the hold time is complete, the fixture turns off. Please note: when used as both day/night and motion sensor, this unit will only enable motion once ambient light has fallen below the required lux setting. This WILL NOT activate when lux falls below threshold. The day/night setting is designed to limit the motion sensor so the motion sensor is only activate at night.



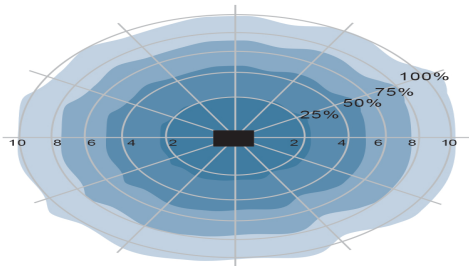
Motion Detected Through a Wall

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.

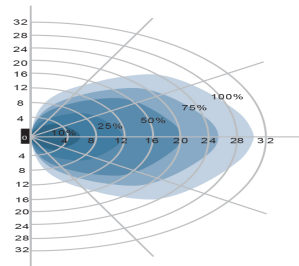


EXP-MS-N4X-AT in operation. [Click Here](#) to view our Flex Couplers available for purchase.
[Click Images to Enlarge](#)

Reach Setting: For best results, it is recommended to adjust the sensitivity of the unit by configuring the reach setting. Reach is the term used to describe the radius of the circular detection zone produced on the ground. This device provides a maximum detection zone of 15M x 15M. After mounting the sensor at the desired height, operators can adjust distance sensitivity.



Ceiling Mount



Wall Mount

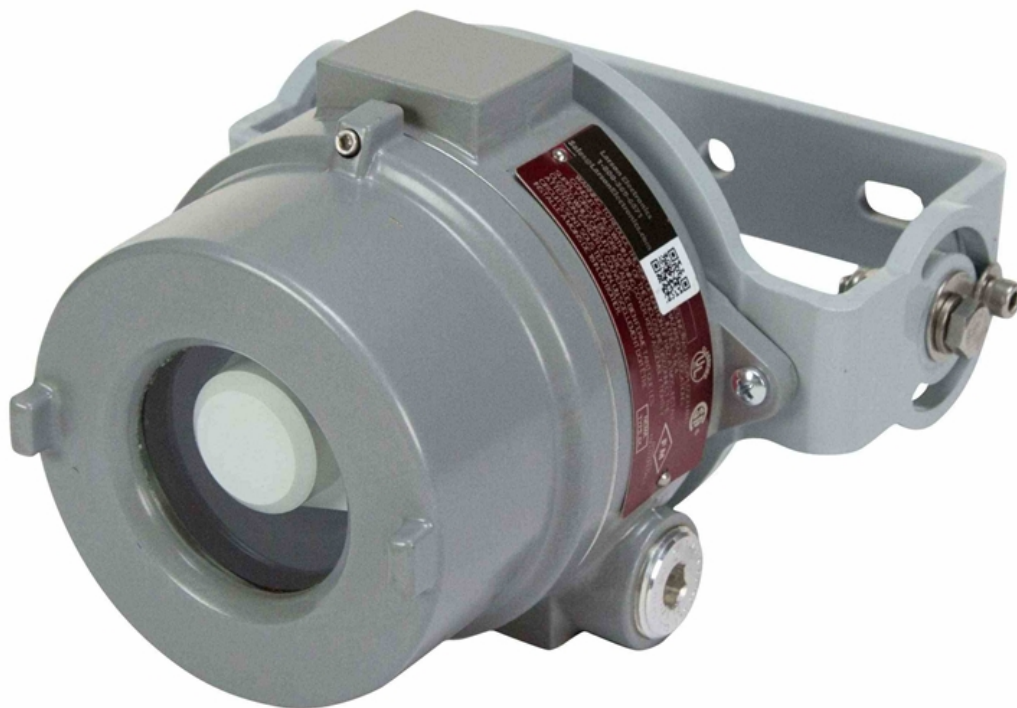
Mounting: The explosion proof motion and day/night detector can be mounted on ceilings or walls. When mounted on the ceiling, the sensor offers detection at distances up to 18 meters (from the ceiling) and 360 degrees of detection (see chart). When mounted on a wall, the maximum distance of detection is 98.4 feet, with 150 degrees of detection (see chart).

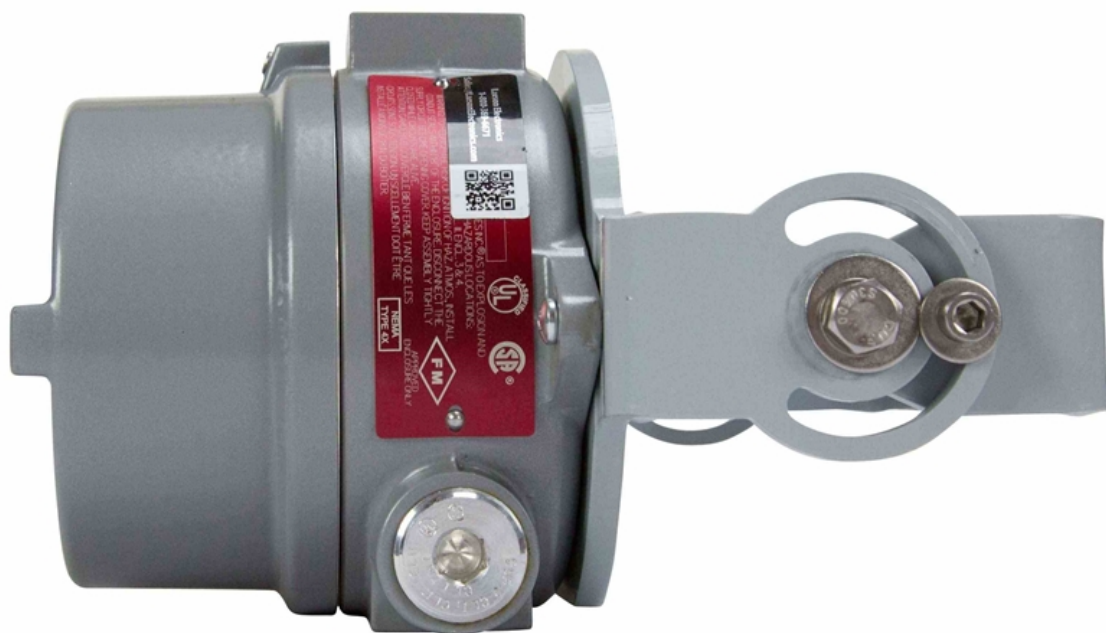
Suggested Applications: Manufacturing, Industrial, Warehouse, Lighting, Lighting, Wet areas or Locations Where Combustible Dust is Present.

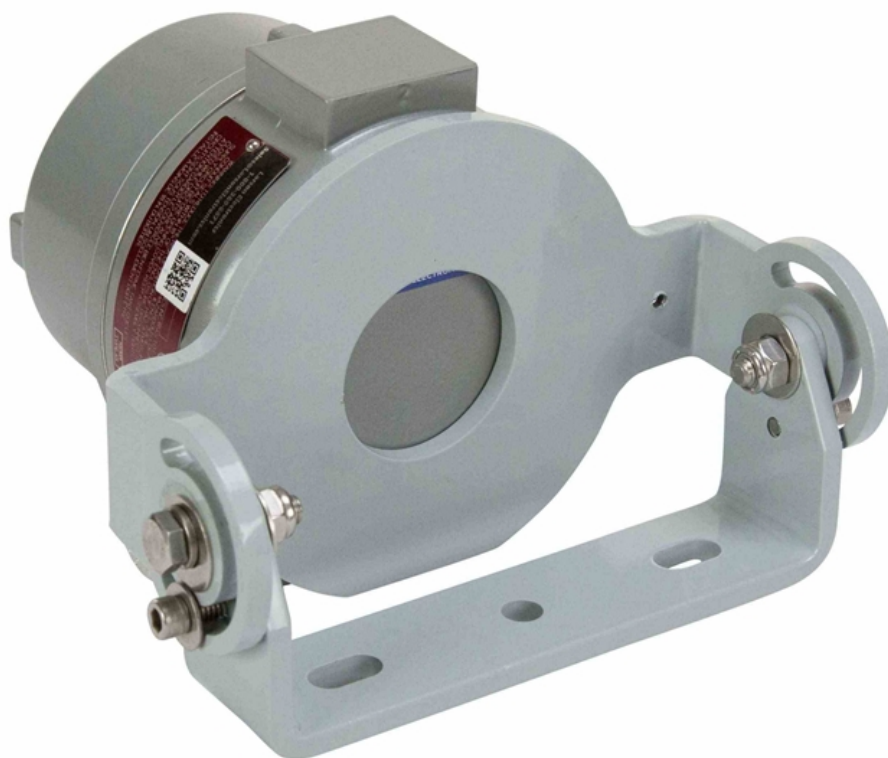
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Frequently Asked Questions (FAQ)









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Product ID: 280462

Harmonized System (HS) Code: 8543.70.4000

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- [Beam Information \(Coverage, Datafile\)](#)
- [Canadian CEC Certificate \(Commonly referred to as CSA Certificate\)](#)
- [CE Certificate](#)
- [Certificate 1, Misc](#)
- [Certificate 2, Misc](#)
- [Certificate 3, Misc](#)
- [Certificate 4, Misc](#)
- [Certificate 5, Misc](#)
- [Dimensional Drawing 2D](#)
- [IEC Ex Certificate \(International Explosion Proof\)](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [Operations Manual](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
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- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)