

## EXP-MS-N4X-AT-HV-NO

**400W Explosion Proof Motion Sensor - 20' to 25' Mounting Height - 15' x 15' Area Coverage - NO/Timer**

**Product ID: 144579**

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



Image: EXP-MS-N4X-AT-HV-NO

**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-NO Explosion Proof Adjustable Motion Sensor**

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

**Dimensions:** 7.62"-W x 5.2"-H x 7.99"-D

**Detection:** Motion

**Detection Coverage:** 15' x 15' (Mounted @ 20'-25')

**Tilt Angles:** -90° to +30° - Elevation

**Reach:** 6.5' to 32' - Adjustable

**System Voltage:** 120V, 208V, 220V, 240V or 277V AC

**Maximum Wattage:** 400W

**Output Hold Time:** 0.5 Secs to 15 Mins (Adjustable)

**Mains Frequency:** 50/60 Hz

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

**Radiated Frequency:** 5.8 GHz

**Operation:** Normally Open

**Wiring:** Flying Leads

### **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

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**The Larson Electronics EXP-MS-N4X-AT-HV-NO Explosion Proof Motion Sensor is**

**approved for Class I, Divisions 1 & 2 and Class II, Divisions 1 & 2 rated areas and provides the ability to power lights or other equipment within hazardous locations based on motion. This C1D1 rated motion sensor features adjustable sensitivity and time delay after motion. Designed for mounting at a height ranging between 20-25 feet, the EXP-MS-N4X-AT-HV-NO can handle a maximum load of 400 watts.**

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 I, Divisions 1 and Class II, Division 1. This explosion proof motion detector provides up to 15' by 15' coverage when mounted at 20'-25'. 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](#)

**Reach Setting:** For best results, it is recommended to adjust the motion 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. After mounting the sensor at a height of 20-25 feet, operators can adjust each control to select distance sensitivity. This detection distance is measured using a person who is between 5.2 feet and 5.5 feet tall with an average build, moving at a speed of 1.0-1.5m/sec. If any of these variables are changed, the detection distance will also change.

The EXP-MS-N4X-AT-HV-NO operates like a standard on/off light switch. The circuit is normally open when no motion is present. Once motion is detected, the internal switch changes to a closed circuit.

This unit is designed to operate on 120V, 208V, 220V, 240V or 277V AC electrical circuits. We also offer low voltage 12-24V AC or DC electrical systems. This motion sensor is suitable for



use in environments where combustible dusts and particulates may be present.

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#### **Motion Detected Through a Wall**

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The EXP-MS-N4X-AT-HV-NO has 1/2" or 3/4" NPT tapped conduit openings 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](mailto:sales@larsonelectronics.com) for more information about our custom options tailored to meet your specific industry needs.

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## Frequently Asked Questions (FAQ)

There are no Fags



Image: EXP-MS-N4X-AT-HV-NO



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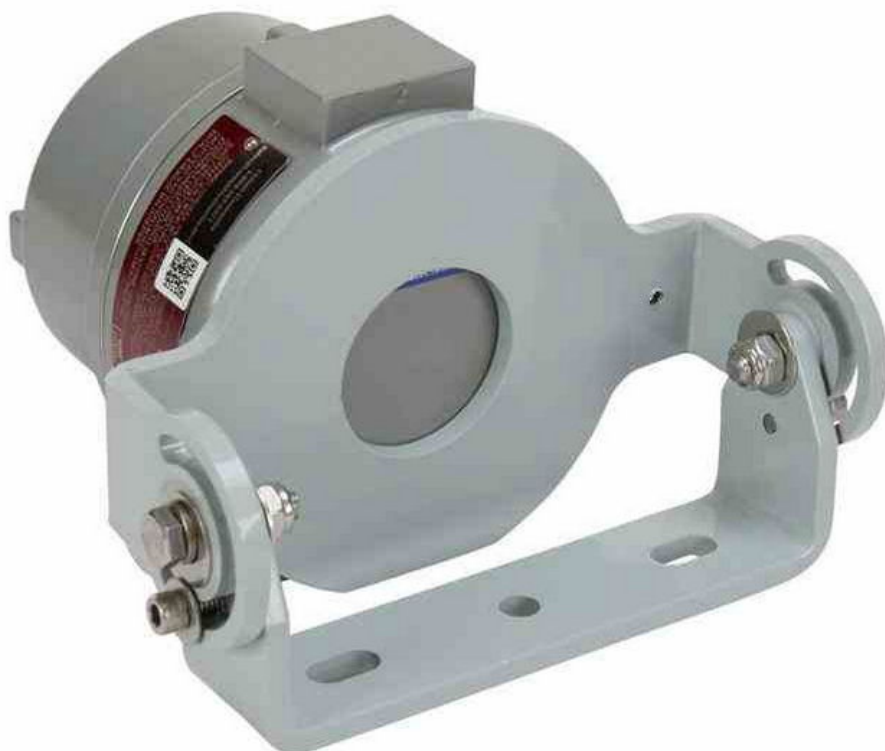


Image: EXP-MS-N4X-AT-HV-NO

**EXP-MS-N4X-AT-HV-NO**

**Product ID: 144579**

**Warranty:** 12 Months.

**Harmonized System (HS) Code:** 8543.70.4000

**Export Control Classification Number (ECCN):** EAR99

**Options:**

**EXP-MS-N4X-AT-HV-NO-Voltage-Hub Config**

**Example:** EXP-MS-N4X-AT-HV-NO-120V-0.75IN

| Voltage |       |
|---------|-------|
| 120V    | -120V |
| 208V    | -208V |
| 220V    | -220V |
| 240V    | -240V |
| 277V    | -277V |

| Hub Config |         |
|------------|---------|
| 3/4 IN     | -0.75IN |
| 1/2 IN     | -0.5IN  |

Links (Click on the below items to view):

- **ATEX Certificate (European Explosion Proof)**( <https://www.larsonelectronics.com/images/product/ATEXCert/144579.PDF> )
- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**( <https://www.larsonelectronics.com/images/product/CECCert/144579.PDF> )
- **CE Certificate**( <https://www.larsonelectronics.com/images/product/CECert/144579.PDF> )
- **Certificate 1, Misc**( <https://www.larsonelectronics.com/images/product/Cert1/144579.PDF> )
- **Certificate 2, Misc**( <https://www.larsonelectronics.com/images/product/Cert2/144579.PDF> )
- **Certificate 3, Misc**( <https://www.larsonelectronics.com/images/product/Cert3/144579.PDF> )
- **Certificate 4, Misc**( <https://www.larsonelectronics.com/images/product/Cert4/144579.PDF> )
- **Dimensional Drawing 2D**( <https://www.larsonelectronics.com/images/product/DimensionalDrawing/144579.PDF> )
- **IEC Ex Certificate (International Explosion Proof)**( <https://www.larsonelectronics.com/images/product/IECExCert/144579.PDF> )
- **MSDS (Material Safety Data Sheet)**( <https://www.larsonelectronics.com/images/product/Msds/144579.PDF> )
- **Operations Manual**( <https://www.larsonelectronics.com/images/product/Manual/144579.PDF> )
- **RoHS Certificate (Restriction of Hazardous Substances)**( <https://www.larsonelectronics.com/images/product/RoHSCert/144579.PDF> )
- **SpecSheetFarsi**( <https://www.larsonelectronics.com/images/product/SpecSheetFarsi/144579.PDF> )
- **SpecSheetFrench**( <https://www.larsonelectronics.com/images/product/SpecSheetFrench/144579.PDF> )
- **SpecSheetRussian**( <https://www.larsonelectronics.com/images/product/SpecSheetRussian/144579.PDF> )
- **SpecSheetSpanish**( <https://www.larsonelectronics.com/images/product/SpecSheetSpanish/144579.PDF> )
- **STEP File (3D CAD Model)**( <https://www.larsonelectronics.com/images/product/Step/144579.ZIP> )
- **USA NEC Certificate (Commonly referred to as UL Certificate)**( <https://www.larsonelectronics.com/images/product/NECCert/144579.PDF> )
- **Wiring Diagram**( <https://www.larsonelectronics.com/images/product/WiringDiagram/144579.PDF> )
- **HigResPic1**( <https://www.larsonelectronics.com/images/product/HigResPic1/144579.JPG> )
- **HigResPic2**( <https://www.larsonelectronics.com/images/product/HigResPic2/144579.JPG> )
- **HigResPic3**( <https://www.larsonelectronics.com/images/product/HigResPic3/144579.JPG> )
- **HigResPic4**( <https://www.larsonelectronics.com/images/product/HigResPic4/144579.JPG> )
- **HigResPic5**( <https://www.larsonelectronics.com/images/product/HigResPic5/144579.JPG> )
- **HigResPic6**( <https://www.larsonelectronics.com/images/product/HigResPic6/144579.JPG> )
- **HigResPic7**( <https://www.larsonelectronics.com/images/product/HigResPic7/144579.JPG> )
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- **HigResPic9**( <https://www.larsonelectronics.com/images/product/HigResPic9/144579.JPG> )
- **HigResPic10**( <https://www.larsonelectronics.com/images/product/HigResPic10/144579.JPG> )
- **Video1**( <https://www.youtube.com/watch?v=Mp0G1QcYf2E> )
- **Video2**( <https://www.youtube.com/watch?v=NWLqCRRDmOI> )
- **ISO 9001 Certification**( <http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF> )
- **Business Certificate**( <https://www.larsonelectronics.com/images/pdfdocs/w9.PDF> )
- **Shipping Time Map**( <https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf> )