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EXP-MS-N4X-AT-HV-V2-EYS-12.3-100C

Explosion Proof Motion and Light Sensor - 59' Max Mounting Height - 52.4' x 49.2' Detection Zone - 100' Cord

Product ID: 242028

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-V2-EYS-12.3-100C Explosion Proof Light and Motion Sensor

Listing: NRTL Listed for United States, Canada and IECEx/ATEX Rated
Dimensions: 7"-W x 5"-H x 9"-D
Detection: Motion and Light
Detection Coverage: 52.4` x 49.2` - 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
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: 59` (Ceiling), 98.4` (Wall)
Wiring: 100' 12/3 SOOW Cord
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

Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
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The Larson Electronics EXP-MS-N4X-AT-HV-V2-EYS-12.3-100C Explosion Proof Light and Motion Sensor is approved for Class I, Division 1 and Class II, Division 1 flammable work sites. This device, which is capable of

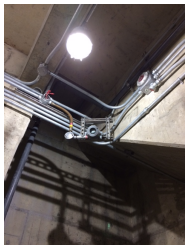
detecting both motion and light, is an energy efficient and automated solution to lighting controls in industrial facilities. The explosion proof unit can be mounted on ceilings or walls and features compatibility with 120-277V AC (universal).

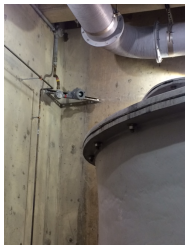
The EXP-MS-N4X-AT-HV-V2-EYS-12.3-100C is ideal for operators seeking a high quality explosion proof light and motion sensor rated for use in Class I, Division 1 and Class II, Division 1 flammable work sites. This explosion proof unit operates on 120-277V AC 50 Hz (universal) and features the following 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.



Motion Detected Through a Wall

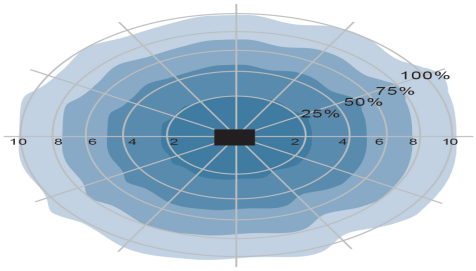
This unit leverages cutting-edge microwave sensors to detect motion. When in use, the device sends out discreet waves that are reflected back from nearby walls and objects (not heat or light). Microwave sensors are not affected by line of sight, resulting in wider and more accurate coverage of the target 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.

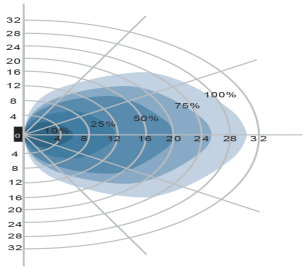





EXP-MS-N4X-AT in operation. Click Here to view our Flex Couplers available for purchase.
Click Images to Enlarge

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 52.4` x 49.2`. After mounting the sensor at the desired height, operators can adjust distance sensitivity.





Ceiling Mount Wall Mount

Wiring: The EXP-MS-N4X-AT-HV-V2-EYS-12.3-100C is equipped with 100` of 12/3 SOOW cord for completing wiring connections.
Mounting: The explosion proof motion and light detector can be mounted on ceilings or walls. When mounted on the ceiling, the sensor offers detection at distances up to 59 feet (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.
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.

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Frequently Asked Questions (FAQ)

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Product ID: 242028

Harmonized System (HS) Code: 8543.70.4000

Export Control Classification Number (ECCN): EAR99

Options:

EXP-MS-N4X-AT-HV-V2-EYS-12.3-100C-Voltage

Example: EXP-MS-N4X-AT-HV-V2-EYS-12.3-100C-120V

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

Links (Click on the below items to view):

- **ATEX Certificate (European Explosion Proof)**
- **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**
- **Dimensional Drawing 2D**
- **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**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**