

RAVEN

MICROWAVE MOTION SENSOR

The RAVEN is a vehicle motion sensor that utilizes microwave technology to activate automatic doors and industrial gates. Featuring configurable dual relay outputs, the sensor will differentiate between vehicle and pedestrian traffic enabling custom entry control.

The RAVEN's maximum detection zone is ~ 16 ft (5 m) x 26 ft (7.5 m) at a mounting height of 23 ft (7 m). The sensor can be configured to an approach-only, depart-only or bidirectional detection mode. By utilizing cross traffic filtering settings, the RAVEN will eliminate unnecessary door openings. Other programmable parameters include sensitivity, responsiveness and relay hold time. All user settings can be adjusted directly on the sensor or by using the optional remote control.

- Activation sensor for overhead door, gate and barrier applications
- Distinguish between vehicles and pedestrians
- Two configurable relay outputs
- Adjustable sensitivity and cross traffic suppression
- 8-23 ft (2.5-7 m) mounting height
- Optional remote control for easy programming

RAVEN



EMX

INDUSTRIES

EMX Industries, Inc.

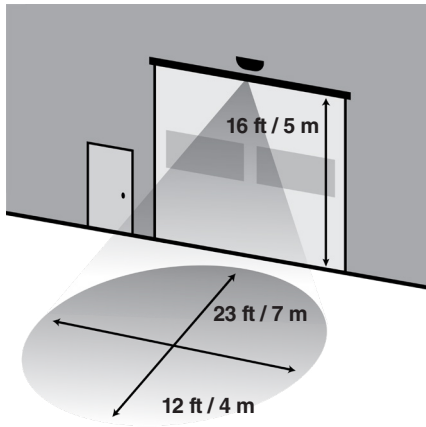
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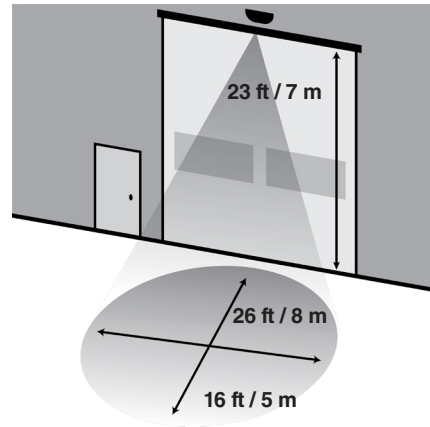
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Detection Area



Detection area at 16 ft / 5 m height and a 45° sensor body angle



Detection area at 23 ft / 7 m height and a 45° sensor body angle



RAVEN-RC

Technical Data

Operating Frequency	24.150 GHz
Detection Range	Dependent on sensor height and housing angle Max. detection range of 23 ft (7 m) x 23 ft (7 m) at an installation height of 16 ft (5 m) and a housing angle of 45°
Vertical Directionality	+/- 90° in 15° increments (up/down)
Horizontal Directionality	+/- 18° (left/right)
Mounting Height	8-23 ft (2.5-7 m)
Power	12-36 VDC or 12-28 VAC
Current Draw	50 mA @ 24 VDC
Relay Output	2 relay outputs (vehicle & pedestrian) NO/NC
Relay Hold Time	0.5 to 300 seconds (adjustable)
Relay Contact Rating	1 A @ 24 VDC/AC
Operating Temperature	-4° to 140°F (-20° to 50°C) below 90% relative humidity
Dimensions (W x H x D)	With mounting bracket – 5.16" (131 mm) x 2.87" (73 mm) x 5.35" (136 mm)
Connection	26 ft (8 m) cable
Housing Material	Polycarbonate
Weight	1.4 lbs (650 g) with cable
Environmental Rating	IP67

Advantages

- Disregard pedestrian and parallel traffic
- Flexible adjustment of the detection field
- Reduce door openings to save energy
- Indoor and outdoor use

Applications

- Activation of automatic industrial doors
- Truck and tow-motor detection
- Cold storage facilities
- Barrier arm activation
- Parking garage and car wash entrances

Ordering Information

- RAVEN Microwave Motion Sensor, includes 26 ft (8 m) of cable and two mounting screws
- RAVEN-RC Optional remote control for programming the RAVEN



WARRANTY EMX INC. the product described herein for a period of 2 years under normal use and service from the date of sale to our customer. The product will be free from defects in material and workmanship. This warranty does not cover ordinary wear and tear, abuse, misuse, overloading, altered products, or damage caused by the purchaser from incorrect connections, or lightning damage. There is no warranty of merchantability. There are no warranties expressed, implied or any affirmation of fact or representation which extend beyond the description set forth herein. EMX Inc. sole responsibility and liability, and purchaser's exclusive remedy shall be limited to the repair or replacement at EMX's option of a part or parts not so conforming to the warranty. In no event shall EMX Inc. be liable for damages of any nature, including incidental or consequential damages, including but, not limited to any damages resulting from non-conformity defect in material or workmanship. Rev 1.0 05/26/2020