

# OWL

## MICROWAVE MOTION & INFRARED PRESENCE SENSOR

The OWL is a vehicle motion and presence sensor that uses microwave and infrared technology to activate automatic doors and industrial gates.

Featuring two configurable outputs, one for vehicle motion detection and the other for presence detection, the OWL provides a convenient means for activating a door and keeping it open, ensuring the safety of people and goods. The microwave motion sensor's maximum detection area is ~ 23 ft (7 m) long by 19 ft (6 m) wide at a mounting height of 21 ft (6.5 m).

The OWL can prevent unnecessary door openings by using traffic filters to prevent the detection of departing vehicles, and vehicles moving parallel to the door.

The infrared presence sensor's maximum detection area is ~ 18 ft (5.5 m) long by 26 ft (8 m) wide at a mounting height of 21 ft (6.5 m). Utilizing a pair of highly customizable infrared LED arrays, the OWL's presence detection can keep people and vehicles safe from unintentional door closings.

- Activation sensor for overhead door, gate and barrier applications
- Distinguish between vehicles, pedestrians and cross traffic
- Customizable infrared presence detection zone
- Two configurable relay outputs
- 11.5-21.3 ft (3.5-6.5 m) mounting height
- Remote for easy programming

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## ADVANTAGES

- Door activation and protection in one unit
- Disregard parallel traffic with filter settings
- Highly customizable presence detection area
- Save energy by reducing door openings

## APPLICATIONS

- High performance and loading dock doors
- Activation for audible alarms and warning lights
- Manufacturing facilities
- Pull cord replacement
- Car dealerships



OWL-RC

## TECHINAL DATA

<b>Mounting Height</b>	11.5-21.3 ft (3.5-6.5 m)
<b>Supply Voltage</b>	12-24 VDC/AC
<b>Max Current Draw</b>	150 mA @ 12 VDC
<b>Operating Temperature</b>	-4 to 140°F (-20 to 60°C)
<b>Operating Humidity</b>	Below 80%
<b>Dimensions</b>	9" (229 mm) x 5" (127 mm) x 5" (127 mm)
<b>Connection</b>	32 ft (10 m) 8 conductor cable directly from sensor
<b>Weight</b>	2.87 lbs (1.3 kg)
<b>Environmental Rating</b>	IP65
<b>Vertical Directionality</b>	16-32° wall or ceiling mount
<b>Horizontal Directionality</b>	+/- 10°

### Microwave (Vehicle Motion)

<b>Operating Frequency</b>	24.150 GHz
<b>Detection Range</b>	Depends on sensor height and housing angle Max. Range: 23 ft (7 m) Max. Width: 19.7 ft (6 m)
<b>Relay Output</b>	NO or NC (adjustable)
<b>Relay Contact Rating</b>	Max. 48 VDC Max. 300 mA
<b>Relay Hold Time</b>	Typ. 500 ms
<b>Adjustable Tilt Angle</b>	-10 to 25°

### Infrared (Presence)

Depends on sensor height and housing angle Max. Range: 18 ft (5.5 m) Max. Width: 26.2 ft (8 m)
NO or NC (adjustable) Max. 48 VDC Max. 300 mA Presence (30 sec to Infinite, adjustable)

## ORDERING INFORMATION

OWL Vehicle Motion and Presence Sensor, includes 32 ft (10 m) of cable and mounting screws  
OWL-RC Remote control, required for programming the OWL (sold separately)

• **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 3 12/06/2022

