



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

OWL



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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

Technical Data

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

Operating Frequency Detection Range

Relay Output Relay Contact Rating

Relay Hold Time Adjustable Tilt Angle

Microwave (Vehicle Motion)

24.150 GHz
Depends on sensor height and housing angle
Max. Range: 23 ft (7 m)
Max. Width: 19.7 ft (6 m)
NO or NC (adjustable)
Max. 48 VDC
Max. 300 mA
Typ. 500 ms
-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 1.1 01/25/2021