

EMX RAVEN Microwave Motion Sensor User Guide

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EMX RAVEN Microwave Motion Sensor



RAVEN Microwave Motion Sensor

Specifications

• Power Input: 12-36 VDC or 12-28 VAC

• Mounting Height: 8-23 ft (2.5-7 m)

- Relay Options: Vehicle detection relay (white/yellow wires), Human detection relay (gray/pink wires)
- Remote Control Functions: Programming, Changing settings, Checking current settings

Mounting

- 1. Loosen the hinge screw to remove the mounting bracket from the sensor housing.
- 2. Install the mounting bracket at a height between 8-23 ft (2.5-7 m).
- 3. Reattach the sensor to the mounting bracket and adjust the sensor to the desired angle $(15 45^{\circ})$, tighten the hinge screw to lock the sensor into place.

Wiring

- 1. Connect power (12-36 VDC or 12-28 VAC) to the brown and green wires. They are not polarity sensitive.
- **2.** Wire the vehicle detection relay (white/yellow wires) into the door/gate operator. If human only detection is desired, use the human detection relay (gray/pink wires) instead.

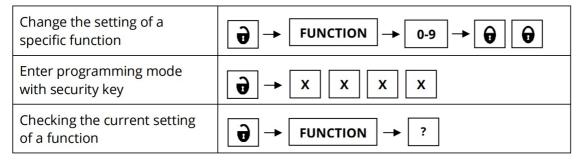
NOTE: Both relays can be used at the same time if desired. The vehicle detection relay can be reconfigured to include both human and vehicle detections.

Programming with Remote Control

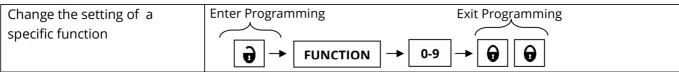
- 1. Press the remote control **Unlock Key** to enter programming mode. If the sensor already has a 4-digit security code, enter it after pressing the unlock button.
- 2. Press the key of the function to be changed, followed by the numeric value you would like to enter. Pressing t he **Question Key?** after selecting a function will show the current setting by flashing the green LED. The numb er of LED flashes is equal to the currently programmed setting.
- 3. To exit programming mode, press the Lock Key



twice quickly.



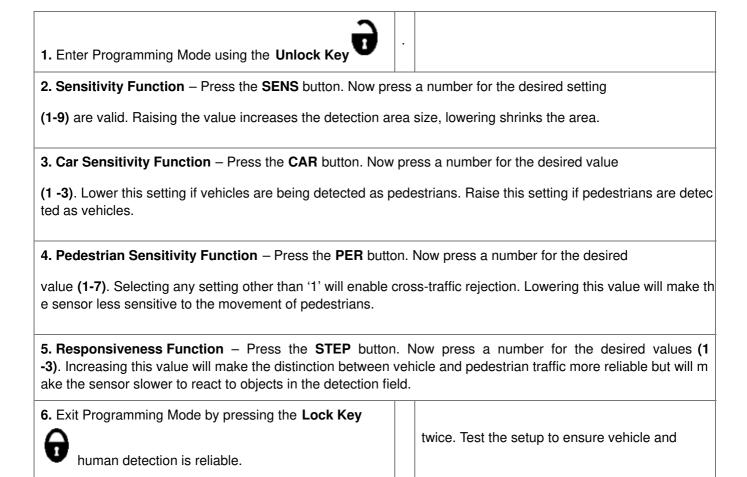




NOTE:

Refer to page 6 of the manual for recommended settings at each install height/angle.

Configuring the Sensitivity Parameters



Configuring the Relay Parameters



- 1. Enter Programming Mode using the Unlock Key
- 2. Vehicle Detection Relay Function Press the OCAR button. Now press a number for the desired value (1-6) are valid. This parameter will set the directional detection mode of the vehicle detection relay and what object s it will activate for. Refer to pg. 5 of manual for a table of possible settings. The

default setting will have vehicles detected only when moving towards the sensor.

- **3. Pedestrian Detection Relay Function** Press the **OPER** button. Now press a number for the desired value **(1-6)**. This parameter will set the directional detection mode of the human detection relay and what objects it will activate for. Refer to pg. 6 of manual for a table of possible settings. The default setting will have pedestrians detected only when moving towards the sensor. If this relay is not connected to an operator, this step is not needed.
- **4. Relay Hold Time Function** Press the **TIME** button. Now press a number for the desired value **(1-9)**. This parameter will adjust the hold-on time of both relays. Lower values will have a shorter hold-time and higher values will extend this time. The hold time can be

configured between 0.5 – 300 seconds.

- **5.** Relay Configuration Function Press the OUT button. Now press a number for the desired value (1 or 2). This parameter will change the default position of both the relays. The default setting (1) will have the relays be normally open (NO). Changing the setting to '2' will make the relays normally closed (NC).
- **6.** Exit programming mode by pressing the **Lock Key** erly when a detection occurs.



twice. Ensure the door/gate operator reacts prop

For more information, please visit www.devancocanada.com or call toll free at 1-855-931-3334

FAQ

Q: Can both relays be used simultaneously?

A: Yes, both relays can be used at the same time. The vehicle detection relay can be reconfigured to include both human and vehicle detections.

Documents / Resources



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RAVEN Microwave Motion Sensor, RAVEN, Microwave Motion Sensor, Motion Sensor

References

User Manual

Manuals+, Privacy Policy

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