

VPR-27 Short Range Sensor

INSTALLATION INSTRUCTIONS



General Description

The VPR-27 is a cost-effective way to:

- Protect trail and path users by activating flashing message or warning signs to alert motorists of approaching users at roadway crossing.
- Activate automatic overhead and roll up doors as vehicle approaches.

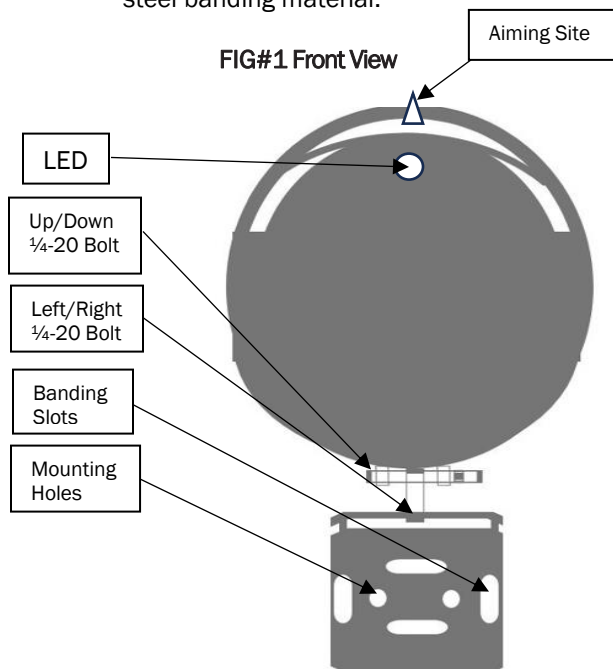
The VPR-27 is a radar-based motion sensor capable of detecting trail users from pedestrians to golf carts in either one direction (approach-only or depart-only) or bi-directional (two-way) up to 80 feet from the sensor's location. The VPR-27 easily mounts to sign poles. Low power requirements (12/24V AC/DC) allow for usage in solar powered applications.

Installation

Mount the sensor in its intended location 10 to 20 feet high to discourage vandalism. The multifunctional mounting bracket allows for attaching the sensor with bolts or with stainless steel banding material.



Warning: Sensor must be mounted in a stable manner to avoid vibration using minimum 1/4-20 bolts/screws or stainless-steel banding material.



Alignment

Once mounted in its intended location, manually align the sensor using the aiming site at the top of the housing to point the sensor at the center of the desired detection area. To do this, first loosen the bottom bolt for left to right positioning and then hand tighten to hold the sensor in place. Next loosen the side bolt for up and down positioning and then hand tighten. Once positioning is complete firmly tighten all bolts to ensure the sensor will not move.

Wiring



5-conductor cable	
Red	= Power (fused)
Black	= Power
Green	= Relay COM
Brown/Orange	= Relay N.C.
White	= Relay N.O.
12V to 24V AC/DC (No Polarity)	

Note: (Fuse Sold Separately)
24V, 24VA transformer Sold Separately



WARNING: To limit exposure to electrical damage from power surges, ALWAYS wire the sensor from an isolated power source. If one is not available, use a transformer or a TCPS series isolation module (both sold separately).

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Adjustment

Remove the back panel of the sensor. All adjustments are made on the circuit board.

Range Control- Allows the detection pattern to be varied to a maximum of 60' for pedestrians.

Delay Control- Allows adjustment of the relay activation hold time (delay) from 0.25-25 seconds.

Dipswitches 1-3: Factory use only.

Direction Switch- Allows for selection on uni-directional (one way) or bi-directional (two-way).

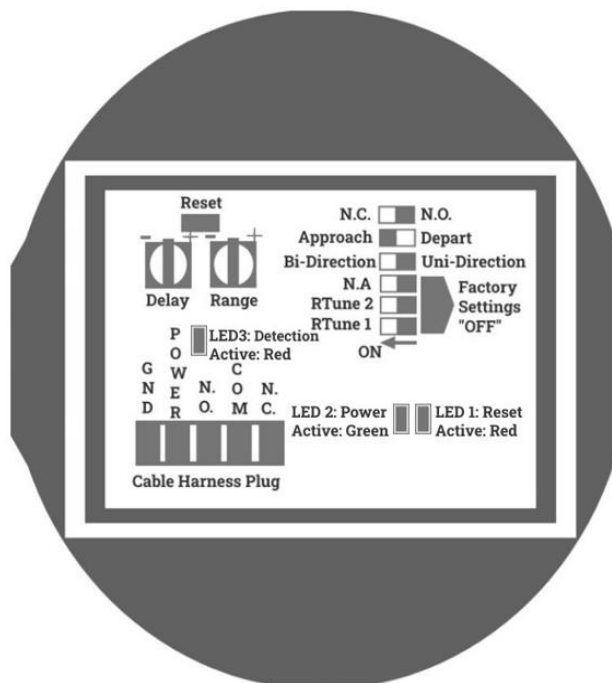
Approach/Depart Switch- When sensor is set to uni-directional, this allows for selection of either approaching-only or departing-only traffic.

Relay Output Dipswitch: Allows for the sensor relay output to be Normally Closed (N.C.) or Normally Closed (N.O.). Typical sensor usage is with the relay output N.O.

Reset Button: Must be pushed each time a change is made to any adjustment on potentiometer or dipswitch.

LED: An LED is located on the front of the sensor to provide visual confirmation when the sensor detects a vehicle.

Fig#2 Rear View



Note: Click the Reset Button each time you make changes on the Dip Switches and Pots.

Switch Functions

Dipswitches (Default)	ON	OFF
1 Factory Use Only		<input checked="" type="radio"/>
2 Factory Use Only		<input checked="" type="radio"/>
3 Factory Use Only		<input checked="" type="radio"/>
4 Bi-direction/Uni-direction		<input checked="" type="radio"/>
5 Approach/Depart	<input checked="" type="radio"/>	
6 N.C./N.O.		<input checked="" type="radio"/>

Regulatory

FCC ID: OHRVPR

This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following two conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired.

IC: 6775A-VPR

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions: This device may not cause interference. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs/récepteurs sans licence qui sont conformes aux RSS sans licence d'Innovation, Sciences et Développement économique Canada. L'exploitation est soumise aux deux conditions suivantes : Cet appareil ne doit pas provoquer d'interférences.

Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

Warranty

MS Sedco Inc. guarantees this product to be free from manufacturing defects for three (3) years from the date of the original invoice.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.