

INSTALLATION INSTRUCTIONS



HMVS-J

HMVS-J VACANCY ONLY SENSOR SWITCH

SPECIFICATIONS

Voltage	120/277VAC,60Hz
Resistive	5A
Incandescent/Halogen.....	500W@120VAC
Fluorescent/Ballast/LED.....	500VA@120VAC/1000VA@277VAC
Motor	1/8Hp
Time Delay.....	15 Sec, 15 Mins, 30 Mins
Light Level.....	25 Foot-candle
Operation Temperature.....	32° F--131° F

DESCRIPTION

The passive infrared sensors work by detecting the difference between heat emitted from the human body in motion and the background space. Once the sensor switch is manually turned on, it can turn a load on and hold it as long as the sensor detects any motion. After no motion is detected for the set time delay, the load turned off automatically. The sensor switch has one relay, no minimum load requirements.

Coverage Area

The coverage range of the sensor switch is specified and illustrated in Figure 1. Large objects and some transparent barriers like glass windows will obstruct the sensors' view and prevent detection, causing the light to turn off even though someone is still in the detection area.

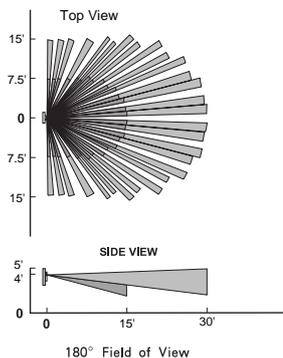


Figure 1

Best: 180 sq.ft.
Regular: 450 sq.ft.
Maximum: 700 sq.ft.

WARNING: Turn off the circuit breaker before installation.



Indoor use only.
Do not exceed electrical ratings.

INSTALLATION

1. Connect lead wires as wiring diagram (see Figure 2): Black lead to hot wire, red lead to load wire, green lead to ground wire.

Wiring diagram

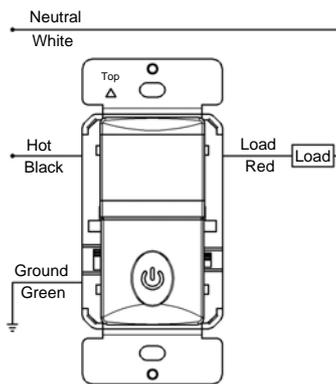


Figure 2

2. Device "TOP" upward.
3. Gently position wires in wall box, attach sensor switch to the box.
4. Restore power at circuit breaker or fuse, wait two minutes.
5. Locate the toggle switch on both sides of the top cover to perform test and adjustment.

Changing the color of your switch

The switch ships with top cover attached. It is convenient for users to change the top cover. Please proceed as follows:

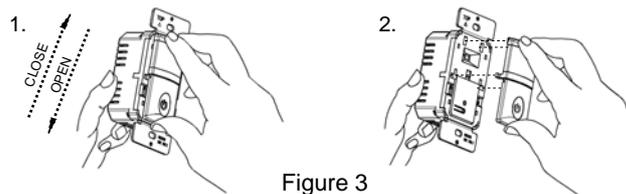


Figure 3

Push down top cover to release

Line up tabs and push up to attach

ADJUSTMENT

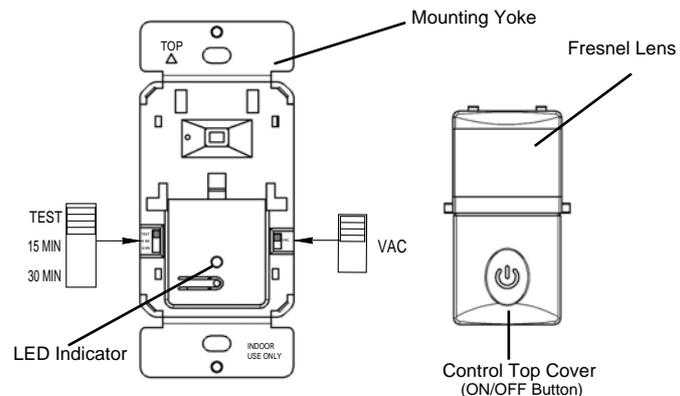


Figure 4

Band switch prescription

Mode	Description	React to ON/OFF button
VAC	Vacancy Mode: Manual On only, Automatic Off after set time delay.	Manually toggles On/Off the load.

Time delay setting

Default position	15 Seconds (Test mode)		
Adjustable	15 Seconds	15 Minutes	30 Minutes

OPERATION

The sensor switch is programmed for vacancy mode only.

Manual ON/OFF Button

By pushing the control top cover, the load can be turned ON/OFF under VAC mode. (illustrated in Figure 5)

Turning ON the Load under Vacancy Mode

Manual ON/OFF button has to be pushed to turn ON the load.

Automatic Turning OFF the Load

Under VAC mode, the sensor keeps the load ON until no motion is detected plus the set time delay, load(s) turn OFF automatically.

INSTALLATION INSTRUCTIONS

Manual Turning OFF the Load

By manual ON/OFF button, the load can be turned OFF.

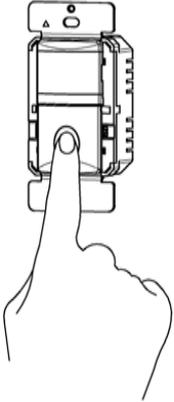


Figure 5

◆ TROUBLESHOOTING

For proper operation, the sensor switch has to consume power from hot and **ground**. Therefore, a **Secured Ground Wiring is required**.

Initial run

The sensor switch needs **initial run within two minutes**. During the initial run, the load might be turned ON and OFF several times.

The time delay toggle switch is default set on 15 seconds, do not adjust it until initial run is finished and proper operation function confirmed.

The load is out of control

1. It can take up to two minutes for initial run.
2. Check the wiring connections, especially the **Ground Wiring**.

The load does not turn OFF

1. There can be up to a 30 minutes time delay after the last motion detected. To verify proper operation, turn the time delay toggle switch to 15s (test mode), make sure there is no motion, the load should turn OFF in 15 seconds.
2. Check if there is any significant heat source mounted within six feet (two meters) that may cause false detection such as high wattage light bulb, portable heater and HAVC device.
3. Check the wiring connections.

◆ WARRANTY INFORMATION

If within two(2) years from the date of purchase, this product fails due to a defect in material or workmanship, we will repair or exchange it, at its sole option free of charge. This warranty does not apply to: (a) damage to units caused by accident, dropping or abuse in handling, acts of god or any negligent use; (b) units which have been subject to un-authorized repair, opened, taken apart or otherwise modified; (c) unit not used in accordance with instruction; (d) damages exceeding the cost of the product; (e) finish on any portion of the product, such as surface and weathering, as this is considered normal wear and tear; (g) transit damage, initial installation costs, removal costs, or rein-installation costs.

This warranty service is available by returning the product with proof of purchase, purchase date and a description of the problem to the dealer from whom the unit was purchased.

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