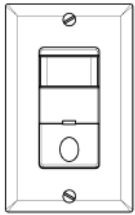


Specifications and Installation: RNET-OCC-HV-P-WS-J Occupancy/Vacancy (2-in-1) Sensor Switch



SPECIFICATIONS

Voltage	120/277VAC, 60Hz
Incandescent	800W
Fluorescent/Ballast.....	800VA@120VAC /1600VA@277VAC
Motor	1/4Hp
Time Delay	15Sec to 30Mins
Light Level	30 Lux-Daylight
Operation Temperature	32 F-131 F

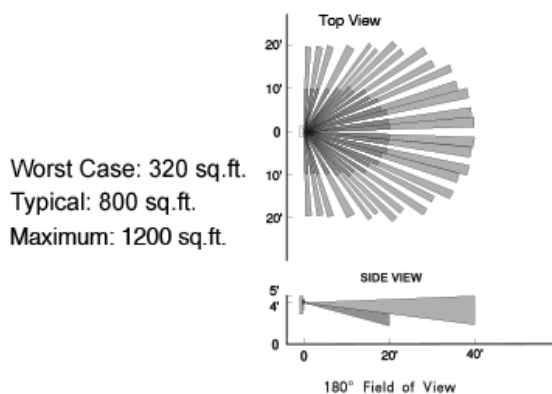
DESCRIPTION

Passive infrared sensors work by detecting the difference between heat emitted from the human body in motion and the background space.

The sensor switch can turn a load on and hold it as long as the sensor detects occupancy. After no motion is detected for the set time delay, the load turns off automatically. The sensor switch has one relay (equal to single pole switch). It also includes an Ambient Light Level Sensor, Auto Set and Walk-Through features.

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.



WARNING:

- Turn off the circuit breaker before installation
- Ground wire is required
- Indoor use only
- Do not exceed electrical ratings

INSTALLATION

1. Connect lead wires as WIRING DIAGRAM (see Figure 2): Black lead to Line (Hot), Red lead to Load wire, Green lead to Ground.

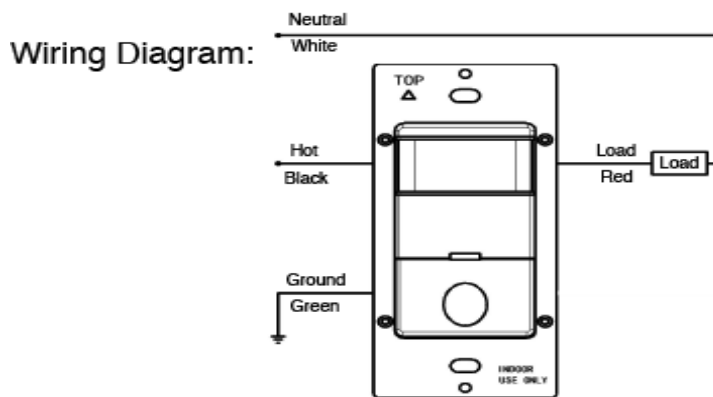


Figure 2

2. Gently position wires in wall box, attach sensor switch to the box.
3. Mount device "TOP" up.
4. Restore power at circuit breaker or fuse, wait three minutes.
5. Remove the small cover plate. (Illustrated as Figure 3.)
6. Locate the adjustment knobs on the control panel to perform test and adjustment. (Illustrated as Figure 3.)
7. Replace the small cover plate after testing and adjustment.
8. Attach the wall plate.

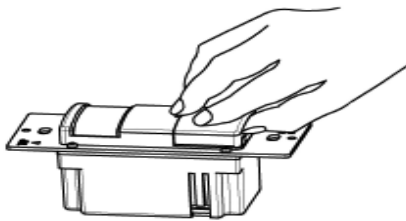


Figure 3

ADJUSTMENT

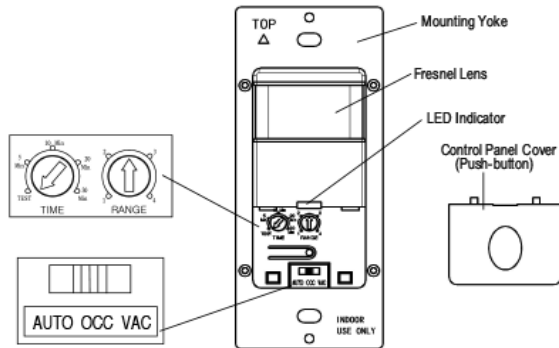


Figure 4

Band switch prescription

Mode	Position	Description	React to the push-button
AUTO	Left	Auto Set Occupancy Mode: Automatic On ,Automatic Off after digital auto set delay time, including walk-through Mode	Manually toggles On / Off the load.
OCC	Center	Occupancy Mode: Automatic On, automatic Off after set time delay.	Manually toggles On / Off the load.
VAC	Right	Vacancy Mode: Manual On only, automatic Off after set time delay.	Manually toggles On / Off the load.

Time Delay knob

Default position: 15 Seconds (Test mode)
 Adjustable: from 15 Seconds to 30 Minutes (clockwise)

Sensor Sensitivity Range Knob

Default position: Center at 65%
 Adjustable: 30% (Position 1) to 100% (Position 4) Note: Turn toward right for greater room space. Turn toward left to avoid false alert in smaller room and near the door way or heat source.

Ambient Light Level Adjustment

After Initial Run (3 minutes), set the Band Switch to VAC, press and hold the Manual ON/OFF Button for 6 seconds until the Load turns on, release the button within the next 4 seconds, the Load will turn off and stay off for a maximum 10 seconds. The Load will turn on again (2 seconds) and then Off. It confirms that the present light level becomes the set Ambient Light Level. Set the Band Switch to OCC or AUTO mode. The Load will turn on only if motion is detected and the Ambient Light Level also below the set light level.

Back to factory default (daylight)

Set the Band Switch to VAC, press and hold the Manual ON/OFF Button for 6 seconds till the Load turns on, continue holding the button for another 5 seconds until the Load turns off, then release the button and set the Band switch to OCC or AUTO Mode, it confirms that the sensor switch goes back to factory default.

OPERATION

The Sensor Switch is programmed independently for any Mode (AUTO, OCC, or VAC). Refer to the Band Switch position under the control panel cover. Some might call the Vacancy mode as “Manual On Occupancy Mode”.

Manual On/Off Button

By Pushing the Control Panel Cover, the Load can be turned On/Off under any Mode (AUTO, OCC, or VAC). (Illustrated as Figure 5) There is a 5 seconds re-trigger delay between ON and OFF.

Turning On the Load under AUTO Mode

Load to be Automatic On once occupancy detected.

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 any Mode, the sensor keeps the Load On until no motion is detected plus the set time delay, Loads to be Off automatically.

Manual Turning Off the Load

By pushing the Manual On/Off button, the Load can be turned Off under any Mode. Under AUTO/OCC Mode, the Load cannot automatically turn On 5 minutes after the last motion is detected.

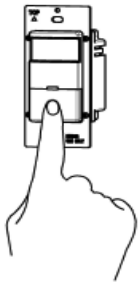


Figure 5

Auto Set Occupancy Mode

Automatically set the time delay between 7 to 30 minutes based on occupancy patterns. Auto set behavior starts right after the time delay knob being turned away from Test Mode, also including the walk-through mode.

Walk-Through Mode

In case of walk-through, the Load automatically turns On and then turns Off 300 seconds after a brief occupancy moment of 30 seconds. If motion is detected within the first 30 seconds and also continues in the coming 300 seconds, Auto Set Occupancy Mode applies.

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 three minutes**. During the initial run, the load might be turned On and Off several times. The Time Delay knob 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 (frequently flashing)

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

The Load does not turn On without LED flashing or LED flashing regardless of motion

1. Push Manual On/Off Button, if the load turns On; verify that Sensitivity Range is on high. If the Load does not turn On, check the wiring connections.

The Load does not turn On while LED flashing with motion detected

1. Check to see if Ambient Light Level is enable by covering the lens by hand.
2. Push Manual On/Off Button, if the load turns On; verify that Sensitivity Range is on high. If the Load does not turn On, check the wiring connections, especially Hot Line and 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 Knob to 15s (Test Mode), make sure there is no motion (no LED flashing), 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, especially the Ground wiring to the sensor switch.

The Load turns On when not desired

1. Mask the Sensor Switch's lens to eliminate unwanted coverage area.
2. Turn the Sensitivity Level knob toward left to avoid false alert in smaller room and near the door way.
3. Set the Band Switch to the VAC positon.



WARRANTY INFORMATION

If within five (5) 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;
- f. 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.