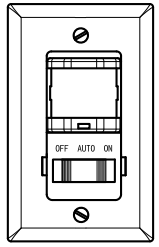
INSTALLATION INSTRUCTIONS



TSOS5
OCCUPANCY SENSOR SWITCH

SPECIFICATIONS

Voltage	120VAC,60Hz
Incandescent	500W
Fluorescent	500VA
Motor	1/8Hp
Time Delay	15Sec to 30Mins
Light Level	30 Lux--Daylight
Operation Temperature	32°F--131 °F
Switch Type	Single Pole

DESCRIPTION

The TSOS5 uses advanced passive infrared sensor to detect heat emitted motion. The sensor switch can turn on a load and keep it on as long as it detects motion. The sensor will automatically shut off the load at the end of the selected time delay. The countdown of the selected time delay starts after the last motion detected. The sensor is customizable with dials that can adjust ***Time Delay***, detection ***Range***, and ambient ***Light Level***.

COVERAGE

As illustrated in Figure 1, The TSOS5 has a 180° detection range with a maximum distance of 30' detection in front of the sensor and 15' on the sides. For maximum results, the sensor must be properly installed between the height of 4' to 5' and away from obstructions such as walls, furniture and transparent barriers like Low-E glass.

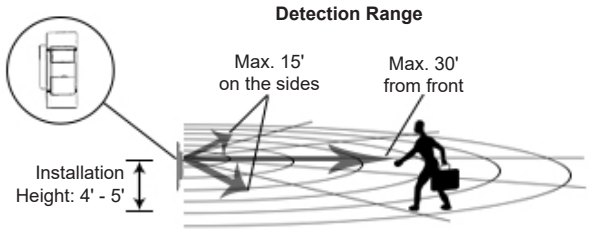


Figure 1

WARNING

Turn the POWER OFF at the circuit breaker before installing the sensor

Read and understand these instructions before installing. This device is intended for installation in accordance with the National Electric Code and local regulations. It is recommended that a qualified electrician performs this installation. Make sure to turn off the circuit breaker or fuse(s) and make sure power is off before wiring the device.

Use copper wires only.

WIRING DIRECTIONS

Note: The white wire MUST be connected to the neutral wire in the junction box. Please do not connect the white wire to any other wire besides the neutral.

1. Connect RED wire from sensor to the LOAD wire.
2. Connect BLACK wire from sensor to the HOT wire. Connect
3. GREEN wire from sensor to the GROUND wire. Connect WHITE
4. wire from sensor to the NEUTRAL wire.

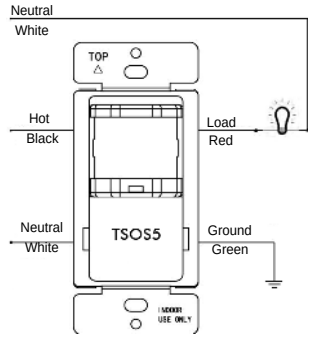


Figure 2

ADJUSTMENT

The control panel is located behind the cover plate directly below the PIR sensor. Pull from top corners of cover to uncover control dials (Figure 3).

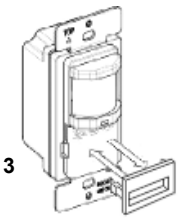


Figure 3

Illustrated in Figure 4, the control dials are used to adjust the following:

Time dial
This dial adjusts the time delay. Default position: 15 Seconds (Test mode) Adjustable: from 15 Seconds to 30 Minutes (clockwise)

Range dial
This dial adjusts the detection range. Default position: Center at 65%Adjustable: 30% (Position 1) to 100% (Position 4).
Note: Use the greater setting for larger coverage area.

Light dial
The sensor may be adjusted to operate at the desired level of ambient light.

- To do so, turn the dial to point the arrow toward the "-"sign for sensor to detect motion and operate during low light or no light. Point the arrow toward the "+"sign for sensor to operate when there's more light in the area or even during daylight.

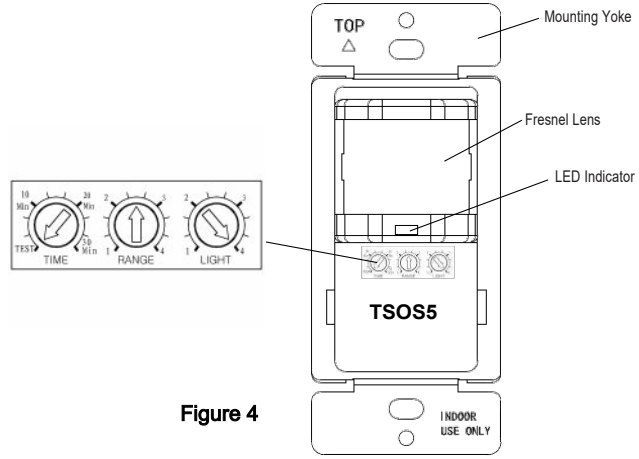


Figure 4

OPERATION

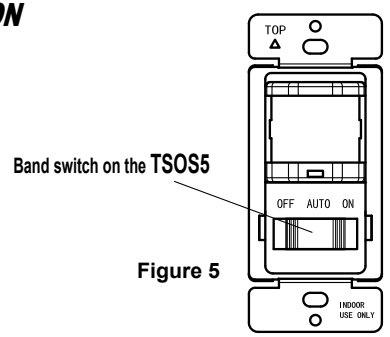


Figure 5

TSOS5 Band Switch Operation

Mode	Position	Description
OFF	Left	Circuit is permanently opened. (switched off)
AUTO	Center	Occupancy Mode: Automatic On when occupancy is detected. Automatic Off after the set time delay.
ON	Right	Load stays On always. (switched on)

TROUBLESHOOTING

The Load flashes in 'AUTO' mode:

Check the wire connection. Make sure the white wire on the sensor is connected to the neutral wire in the junction box. Do not connect the white wire to any other wire besides the neutral.

The Load does not turn on when motion is detected:

1. Keep close to the sensor to make sure you are in the detection range.
2. Check the LED indicator on the sensor to see whether it flashes when motion is detected. If LED indicator flashes when motion detected, please go to Step 3. If LED indicator stays off when there is motion, please go to Step 4.
3. Make sure the sensor is in 'AUTO' mode.
4. Check the wiring connection to make sure neutral wire has been connected and make sure Hot and Load wires are not reversely connecte.

The Load does not turn Off:

1. Make sure the sensor is in 'AUTO' mode. (Light is always on when it is switched to 'ON')
2. Check the time delay option. The time delay constantly restarts its countdown after the last motion detected. Turn the Time Delay Knob to 15s (Test Mode) and make sure there is no motion (Tape may be used to cover the fresnel lens while testing.)
3. Check for possible significant heat sources emitting within six feet (two meters) such as high wattage light bulbs, portable heaters or HAVC vents which may be triggering the sensor.
4. Check the wiring. Make sure no connection between Hot wire and Load.

The Load turns on when not desired:

1. Make sure there is no motion detected by the sensor.
2. Check for possible significant heat sources emitting within six feet (two meters) such as high wattage light bulbs, portable heaters or HAVC vents which may be triggering the sensor.
3. If the sensor is installed in a small room, turn the Range dial to a lower setting to avoid false or unwanted detection from a open window or door.

WARRANTY

This device is warranted to be free of material and workmanship defects for 1 year from the date of purchase. Original receipt or proof of purchase from an authorized retailer must be presented upon warranty claim. ALL claims must be verified and approved by Top Greener, Inc. Warranties from other Top Greener products may vary. This warranty is nontransferable and does not cover normal wear and tear or any malfunction, failure, or defect resulting from misuse, abuse, neglect, alteration, modification, or improper installation. To the fullest extent permitted by the applicable state law, Top Greener shall not be liable to the purchaser or end user customer of Top Greener products for direct, indirect, incidental, or consequential damages even if Top Greener has been advised of the possibility of such damages. Top Greener' total liability under this or any other warranty, express or implied, is limited to repair, replacement or refund. Repair, replacement or refund are the sole and exclusive remedies for breach of warranty or any other legal theory.

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