SPECIFICATIONS

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

DESCRIPTION

The TDOS5 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 sensor can be adjusted with dials to change between Occupancy/Vacancy modes.

COVERAGE

As illustrated in Figure 1, the TDOS5 has a 180° detection range with a maximum distance of 20' detection in front of the sensor and 10' 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.

ADJUSTMENT

The control panel cover is also the push button on the switch. Remove the push-button cover plate by prying from the bottom of the push-button and pulling outward.

WIRING DIRECTIONS

1. Test and Label all wires before installing the sensor. You must have a HOT, NEUTRAL, and LOAD wires in the switch box. DO NOT connect the WHITE (Neutral) wire and the RED (Load) wire on the sensor together. Otherwise, the load will keep flashing.
2. Connect RED wire from sensor to the LOAD wire.
3. Connect BLACK wire from sensor to the HOT wire.
4. Connect WHITE wire from sensor to the NEUTRAL wire.
5. Connect GREEN wire from sensor to the GROUND wire.

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.

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

This dial adjusts the detection range. Default position: Center at 65%. Adjutable: 30% (Position 1) to 100% (Position 4).

Note: Use the greater setting for larger coverage area.

These may be adjusted to operate at the desired level of ambient light.
- To do so, turn the dial counter clockwise for sensor to detect motion and operate during low light or no light. Turn the dial clockwise for sensor to operate when there’s more light in the area or even during daylight.

Off/ Occupancy/ Vacancy Mode Switch

<table>
<thead>
<tr>
<th>Mode</th>
<th>Position</th>
<th>Description</th>
<th>Push-button Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Left</td>
<td>Circuit is permanently opened. (switched off)</td>
<td>None</td>
</tr>
<tr>
<td>OCC</td>
<td>Center</td>
<td>Occupancy Mode: Automatic On, Automatic Off after set time delay.</td>
<td>Manually toggles On / Off the load.</td>
</tr>
<tr>
<td>VAC</td>
<td>Right</td>
<td>Vacancy Mode: Manual On only, Automatic Off after set time delay.</td>
<td>Manually toggles On/Off the load.</td>
</tr>
</tbody>
</table>
OPERATION

Off/Occupancy/Vacancy Mode Switch

The OFF position: Switch is turned off and will not detect motion. The push button will not function.

OCCupancy position: The load will automatically turn on when motion is detected and automatically turn off when the selected time delay has expired. The push button may be used to manually turn ON/OFF the load and time delay will also take effect.

VACancy position: The load will turn on ONLY when the push button is used and automatically turn off when the selected time delay has expired. The push button may be used to manually turn ON/OFF the load and time delay will also take effect. If the time delay has expired and the load turns off, the load will turn on again automatically if motion is detected within 30 seconds.

TROUBLESHOOTING

The Load Flashes when switch is turned on:
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 on the sensor to any other wire besides NEUTRAL.
DO NOT connect the WHITE (Neutral) wire and the RED (Load) wire on the sensor together. Otherwise, the load will keep flashing.

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 ‘OCC’ mode.
4. Check the wiring connection to make sure neutral wire has been connected and make sure Hot and Load wires are not reversely connected.

The Load does not turn off:
1. Manually push the button to turn off the light. If the light keeps on, please go to step 4. If the light is turned off, please go to step 2.
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.
4. Choose to use VAC mode instead of OCC mode to avoid false triggering.

WARRANTY INFORMATION

This device is warranted to be free of material and workmanship defects for 2 years 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 or 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’s 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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