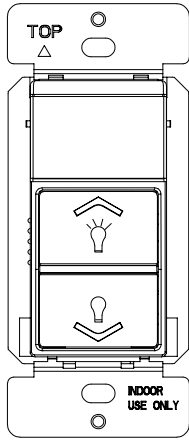


# INSTALLATION INSTRUCTIONS



**Technilight**  
**SMART**

## TSWSTA OCCUPANCY / VACANCY SENSOR DIMMER SWITCH

### SPECIFICATIONS

|                                     |                      |
|-------------------------------------|----------------------|
| Voltage.....                        | 120VAC, 60Hz         |
| Tungsten.....                       | 600W                 |
| Electronic self-ballasted(LED)..... | 150W(1.25A)          |
| Operating temperature.....          | 32°F~104°F(0°C~40°C) |
| Wire Strip Length.....              | 16mm(5/8 in.)        |
| Supply Connection .....             | #14-#12 AWG          |
| Screw Torque.....                   | 20lbf-in             |
| Motion Sensor Coverage.....         | 180°, 1200 sq.ft.    |

### DESCRIPTION

The PIR Sensor Dimmer Switch works by detecting the difference between heat emitted from the human body in motion and the background space. The PIR Sensor Dimmer Switch can turn a load on and hold it as long as the switch detects occupancy. After no motion is detected for the set time delay, the load turns off automatically. The PIR Sensor Dimmer Switch is to turn ON/OFF and control the brightness level of the connected lighting. The PIR Sensor Dimmer Switch also works with TSWSTA3 3-Way Auxiliary Switch that reducing energy consumption, enhancing the value of technology of your home, condominiums and apartment.

#### Coverage Area

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

Best: 320 sq.ft.  
Regular: 800 sq.ft.  
Maximum: 1200 sq.ft.

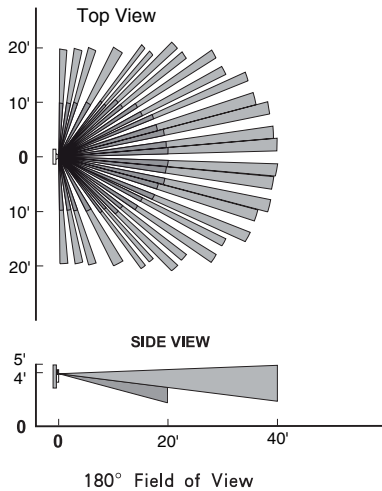


Figure 1

**WARNING:** Turn off the circuit breaker before installation.  
Indoor use only.  
Do not exceed electrical ratings.

### INSTALLATION

1. Make sure that the power has been turned OFF at the circuit breaker.
2. Connect the TSWSTA as shown in WIRING DIAGRAM (see Figure 2).

#### Wiring Diagram

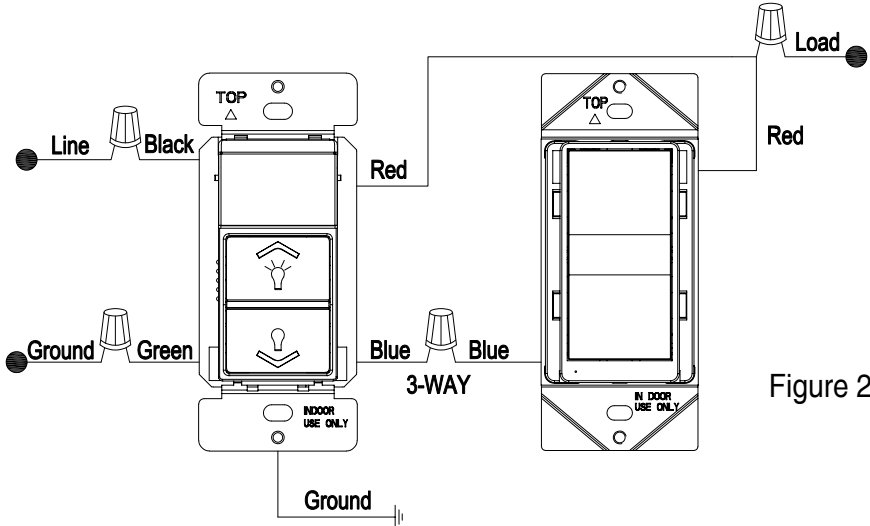
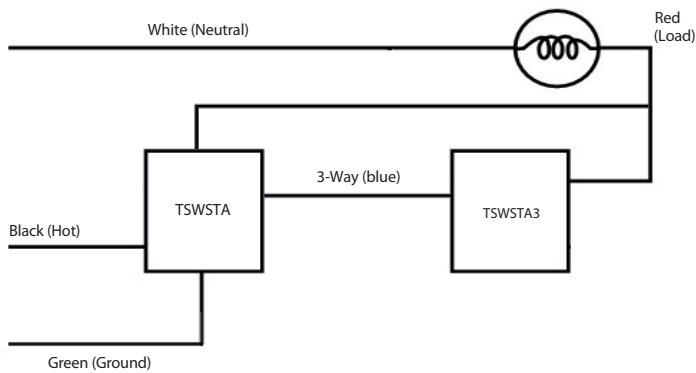


Figure 2

#### 3-Way Wiring Schematic using one TSWSTA and one TSWSTA3



3. Check connections to be sure they are tight and no bare conductors are exposed.
4. Insert the TSWSTA into the wall box carefully.
5. Make sure the TSWSTA to the box using the supplied screws.
6. Attach the wall plate.
7. Restore power at circuit breaker, installation is complete.

#### Open The Panel Cover

Gently remove the panel cover using a flat blade screwdriver. Find the slots at the bottom left or right of the panel cover and pry the panel cover loose. See Figure 3.

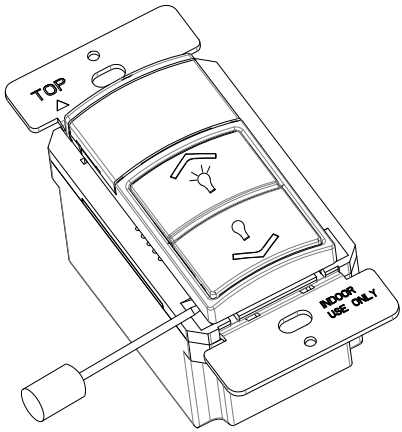


Figure 3

### ADJUSTMENT

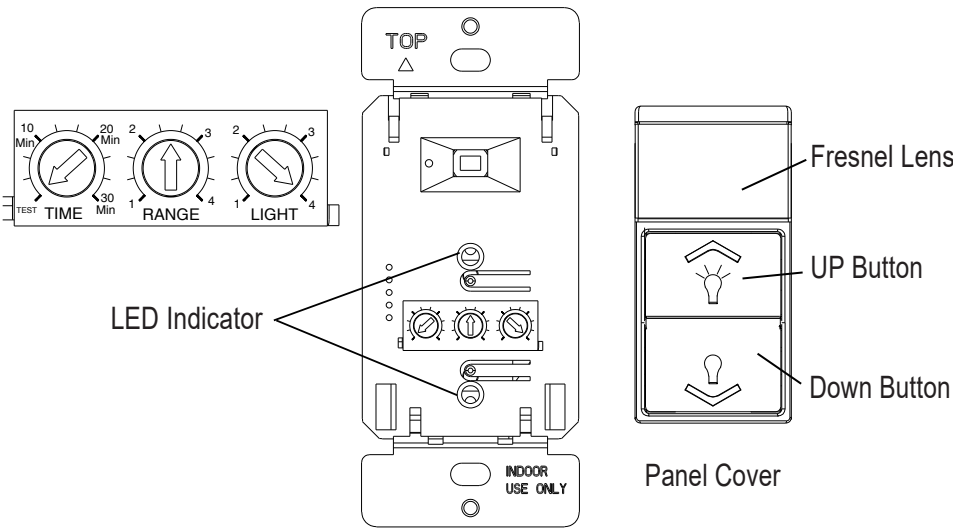


Figure 4

#### 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 Knob

Default position: Daylight (100% at position 4)  
Adjustable: Daylight to 30Lux (Counter clockwise)  
Note: to avoid wasting energy by turning the light in daylight.

# INSTALATION INSTRUCTIONS

## ◆ OPERATION

### Operating Modes

#### (Occupancy Mode) Auto On/Automatic Off Lights. ---Default Mode

The Light will automatically turn ON by PIR. Auto OFF by time delay.

- Tap the UP button to turn ON, lights turn ON and then turn OFF by preset time delay.
- Tap the DOWN button to turn OFF, lights turn off completely.  
After 15 seconds, PIR resets and lights turn ON if motion is detected.

#### (Vacancy Mode) Manual On/Automatic Off Lights.

Tap the UP button to turn the Lights ON and Lights turn OFF automatically after preset time delay.

- If motion is detected (within 30 seconds) of the lights turning off, the Lights turn ON.
- Tap the DOWN button to turn OFF, lights turn off completely.

#### Switch Back And Forth Between VAC And AUTO Mode.

LED Indicator : BI-Color (red or white LED)

Press and hold both UP and DOWN buttons for 3 seconds, the white led flashes twice, it allows users to switch to VAC MODE. Press and hold both UP and DOWN buttons again for 3 seconds, it allows users to switch to AUTO MODE.

#### Manual Control--Dimming

Turn ON/OFF and control the brightness level of the connected lighting.

- To turn the connected lighting ON: Tap the UP button of the switch.
- To turn the connected lighting OFF: Tap the DOWN button of the switch.
- To brighten the connected lighting: Press and hold the UP button of the switch , release when desired level is achieved.
- To dim the connected lighting: Press and hold the DOWN button of the switch , release when desired level is achieved.

#### Manual Control-- Voltage Regulation

Press the UP or DOWN buttons to regulate the Voltage from 0 to 10V.

- Tap the Up button to increase the voltage you want ( Max. Volatge is 10V), when the Light automatically turn ON by PIR then will display its corresponding outputs.
- Tap the down button to reduce the voltage you want ( Min. Voltage is 0V), when the Light automatically turn ON by PIR then will display its corresponding outputs.

## ◆ TROUBLESHOOTING

The Load turns On when not desired

1. Switch from OCC to VAC mode.
2. Mask the Sensor Dimmer Switch’s lens to eliminate unwanted coverage area.
3. Turn the Sensitivity Level knob toward left to avoid false alert in smaller room and near the door way.

The Load does not turn Off

1. 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.
2. Check the wiring connections.

## ◆ WARRANTY INFORMATION

Our company warranties this product to be free of defects in materials and workmanship for a period of two(2) years. There are no obligations or liabilities on the part of our company for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.

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