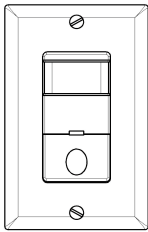


INSTALLATION INSTRUCTIONS



SC-SWSPU-W

SC-SWSPU-W

Single Relay Pole Wall Sensor Switch
Occupancy/Vacancy
(2-IN-1)

SPECIFICATIONS

| | |
|-----------------------------|------------------------------|
| Voltage | 120/277VAC, 60Hz |
| Load Requirements: | |
| 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

The SC Series wall switch sensor provides a simple and cost-effective standalone control solution which utilizes PIR (Passive Infrared) technology to turn lights ON and OFF based on occupancy/vacancy. The vandal resistant lens provides major and minor detection movement coverage with a 180° sensor field-of-view. The sensor wall switch can be used to meet many of the Title 20/24, ASHRAE 90.1, and IECC code requirements.

COVERAGE AREA

The coverage range of the **SC-SWSPU-W** is specified and illustrated in **Figure 1**. Large objects and some transparent surfaces like glass windows will obstruct the sensors' view and prevent detection, causing the light to turn off even when someone is still in the detection area.

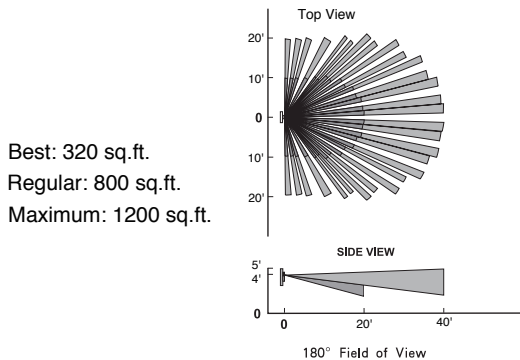


Figure 1

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.

Wiring Diagram:

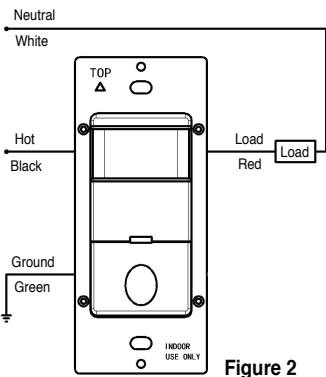


Figure 2

2. Gently position wires in wall box, attach SC-SWSPU-W 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 wallplate.

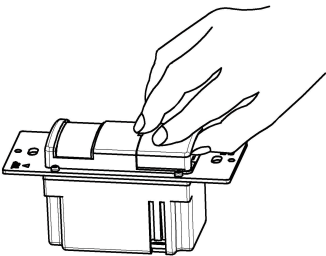


Figure 3

ADJUSTMENT

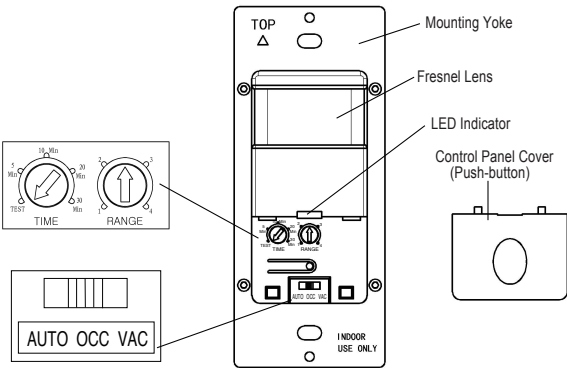


Figure 4

Switch Position:

| Position | Mode | Description |
|----------|------------------|---|
| Left | (AUTO) Automatic | Automatic Occupancy Mode: Automatic ON/OFF, time delay programmed with TIME dial (15 seconds - 30 minutes) with walk-through mode |
| Center | (OCC) Occupancy | Occupancy Mode: Automatic ON/OFF, time delay programmed with TIME dial (15 seconds - 30 minutes) |
| Right | (VAC) Vacancy | Vacancy Mode: Manual ON/Auto OFF, time delay programmed with TIME dial (15 seconds - 30 minutes) |

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 or 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 switch position 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 switch position to OCC or AUTO Mode, it confirms that the SC-SWSPU-W goes back to factory default.

◆ OPERATION

The SC-SWSPU-W is programmed independently for any Mode (AUTO, OCC, or VAC). as refer to the 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 can not automatically turn On 5 minutes after the last motion is detected.

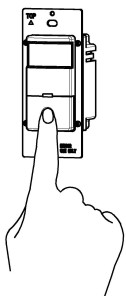


Figure 5

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 is turned away from Test Mode (also including walk-through mode.)

Walk-Through Mode

In case of walk-through, the Load automatically turns On and then turns Off 2.5 minutes after a brief occupancy moment of 30 seconds. If motion is detected within the first 30 seconds and also continues in the coming 2.5 minutes, Auto Set Occupancy Mode applies.

◆ TROUBLESHOOTING

For proper operation, the SC-SWSPU-W has to consume power from hot and **Ground**. Therefore a **Secured Ground Wiring is required**.

Initial run

The SC-SWSPU-W 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, go to Step 2.
2. 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, go to Step 3
3. 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 HVAC device.

3. Check the wiring connections, especially the Ground wiring to the SC-SWSPU-W.

The Load turns On while no desired

1. Mask the SC-SWSPU-W 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 switch position to the VAC position.

◆ WARRANTY INFORMATION

MaxLite offers a 5 year warranty on this product, please see: <http://www.maxlite.com/resources/warranties> for more information.