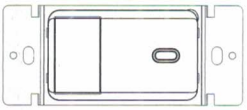


ELEGRP INSTALLATION INSTRUCTIONS

Passive Infrared Occupancy Sensor Wall Switch LED/CFL 300W, Incandescent 600W, 1/2 HP, 120-277VAC, 60Hz

Model No.:
SP170S (Occupancy Sensor)
SP17VS (Vacancy Sensor)



UNIT FEATURES AND DESCRIPTION

- The occupancy sensor wall switch turns lighting or fan loads on and off based on occupancy and ambient light level. They are designed to replace a standard light switch. The switch operates with 120 to 277V AC line voltage.
- The sensor uses passive infrared technology to sense human motion and defines it as occupancy. A red LED in the sensor blinks upon occupancy and then resets. It will blink again when it detects motion after the 2-second reset.
- In Automatic ON & Automatic OFF mode, the sensor turns on the load automatically when it detects occupancy. Once the space is vacant and the time delay elapses, it turns off the load automatically.
- With different settings, occupancy sensors (model# SP170S) can be converted to vacancy sensors (model# SP17VS), while vacancy sensors cannot be converted to occupancy sensors.
- If adequate ambient light is already present in the area, the sensor will hold off the load it controls. When the light drops below a field selectable level and the sensor detects occupancy, the sensor turns on the load.

WARNINGS AND CAUTIONS

- CAUTION:** To avoid overheating and possible damage to this device and other equipment, **DO NOT** install to control a receptacle.
- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.
- Use this device with copper or copper clad wire only.
- Do not use this product to control loads in excess of specified ratings, or it may cause death, injury or property damage.
- The sensing switch requires an unobstructed view of room occupants to detect motion.
- Hot objects or moving air currents can affect the performance of the sensing switch.
- For indoor use only. Operate between 32 to 104 °F (0 to 40 °C).
- Clean the sensor with a piece of soft damp cloth only. Do not use any chemical cleaners.

MOUNTING LOCATION

The device responds to temperature changes and care should be taken when mounting the device. Do not mount directly above a heat source, in a location where hot or cold drafts will blow directly on the sensor, or where unintended motion (e.g., hallway traffic) will be within the sensor's field-of-view.

TOOLS NEEDED FOR INSTALLATION

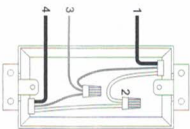
Slotted / Phillips Screwdriver	Pliers	Pencil
Electrical Tape	Cutters	Ruler

PREPARATION BEFORE INSTALLATION

- Turn OFF Power:**
Turn power OFF at circuit breaker (or remove fuse).
- Remove Wallplate and Switch:**
Remove wallplate and switch mounting screws. Carefully remove the switch from the wall (do not remove wires).
- Identify the Type of Circuit:**

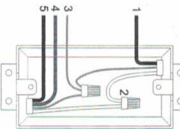
Single-Pole

- Line (Hot)
- Neutral
- Ground
- Load



Two Location Control

- Line (Hot)
- Neutral
- Ground
- Traveler (note color)
- Load



If the wiring in the wall box does not resemble any of these configurations, consult an electrician.

4. Before Wiring the Device:

- Make sure that the ends of wires from the wall box are straight (cut if necessary).
- Remove 5/8" (1.6 cm) of insulation from each wire in the wall box.
- Use wire connectors to join one 12 AWG supply wire with one or two 16 AWG or 18 AWG, or to join one 14 AWG supply wire with one to three 16 AWG or 18 AWG.

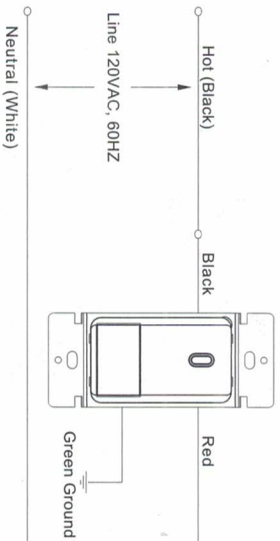
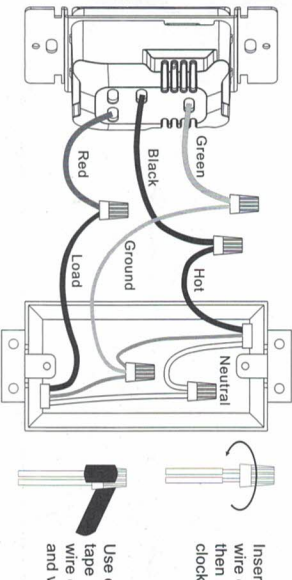
NOTE: Three wire connectors provided in the product package are suitable for copper or copper clad wire only.

For single-pole applications, go to Step 4A.
For two location control applications, go to Step 4B.

4A - INSTALLATION FOR SINGLE POLE

Connect wires per wiring diagram as follows:

- Connect green ground or bare copper wire in the wall box to the Green wire of the device.
- Connect Hot wire in the wall box to the Black wire of the device.
- Connect Load wire(s) in the wall box to the Red wire of the device.
- Screw wire connectors on clockwise making sure no bare copper show below the wire connectors. Secure each connector with electrical tape.
- Mount device in the wall box with screws and mount wall plate.
- Wait 30 seconds for product booting for the first time, the device turns on the loads automatically when it detects motion. Then the space vacant for 30 seconds, the device will turn off the loads automatically until the time delay elapses. Check the wiring consult an electrician if the loads do not turn on or off automatically.



NOTE:

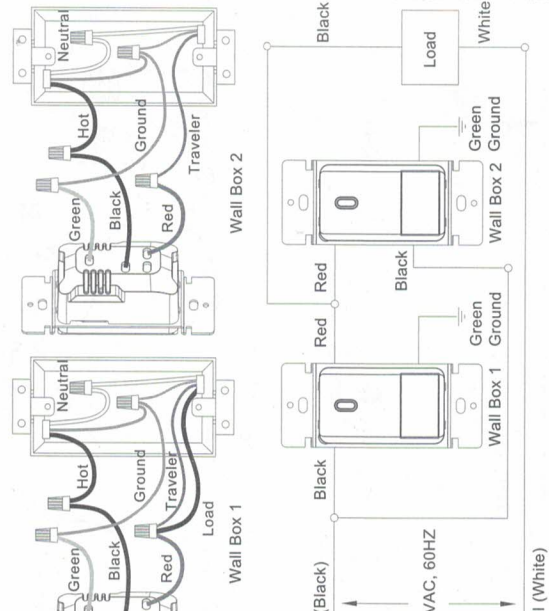
- A ground connection is required to operate. Use the green wire in the wall box for ground connection. If no ground available, consult an electrician. The device will not function if it is not grounded.
- The hot (black wire) and load (red wire) must be connected as stated above, otherwise the device will not function. If the light never turns on, then try to reverse the default wiring of the sensor.
- With the default setting, the device will turn on the loads automatically in any ambient light when it detects occupancy. Once the space is vacant and the time delay elapses after 30 seconds, it turns off the load automatically. For different settings, go to section PREPARATION FOR UNIT SETTING before mounting the wall plate.

INSTALLATION FOR TWO LOCATION CONTROL

It wires per wiring diagram as follows:
 Connect green ground or bare copper wire in the wall box to the ground wire of the device.
 Connect Hot wire in the wall box to the Black wire of the device.
 Connect Load wire(s) and Traveler wire in the wall box wire to the wire of the device.

Use wire connectors on clockwise making sure no bare conductors are below the wire connectors. Secure each connector with electrical tape.
 Mount the device in the wall box with screws and mount wall plate.
 At step 1-6 for installing another sensor switch to the wires in the wall box. (The load wire may only exist in one wall box) are power at circuit breaker or fuse.

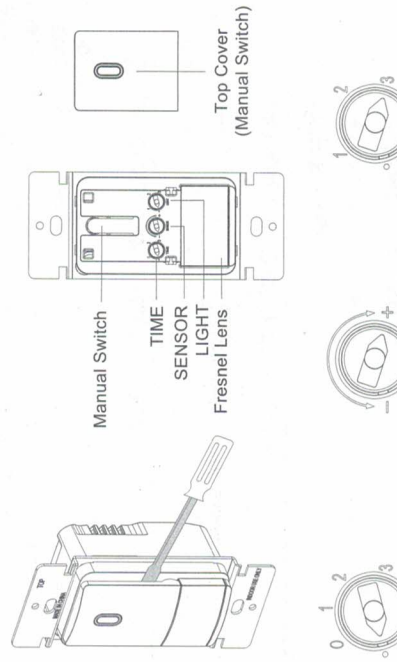
After 30 seconds for product booting for the first time, the device will be in the loads automatically when it detects motion. Then keep the space vacant for 30 seconds, the device will turn off the loads automatically until the time delay elapses. Check the wiring again or call an electrician if the loads do not turn on or off automatically.



E: Either sensor can turn the lights ON.
 Either sensor must time-out to OFF, or both manual buttons must be pressed for the lights to turn OFF.
 The ground connection is required to operate. Use the ground wire in the wall box for ground connection. If no ground is available, consult an electrician. The device will not function if not grounded.
 The hot (black wire) and load (red wire) must be correctly connected as stated above, otherwise the device will not function. If the light never turns on, then try to reverse the hot and load wiring of either or both sensors.
 By default setting, the device will turn on the loads automatically in any ambient light when it detects occupancy. Once the space is vacant and the time delay elapses after 30 seconds, it turns off the load automatically. For different settings, refer to the section PREPARATION FOR UNIT SETTING before mounting the wall plate.

PREPARATION FOR UNIT SETTING

1. Pry off the top cover with a slotted screwdriver.
2. Set the dials of TIME, SENSOR and LIGHT after the cover is off.



Delay Time	SENSOR Sensitivity	Light Sensitivity
0	Automatically turn off the loads after 1 minute	Automatically turn off the loads after 30 seconds
1	Automatically turn off the loads after 5 minutes	Automatically turn off the loads after 1 minute
2	Automatically turn off the loads after 15 minutes	Automatically turn off the loads after 30 seconds
3	Automatically turn off the loads after 30 minutes	Automatically turn off the loads after 1 minute

LIGHT	NOTE
0	VAC Mode: Manual ON and Auto OFF when time delay elapses
1	OCC Mode: Automatically turn on the loads in dark ambient light
2	OCC Mode: Automatically turn on the loads in dim ambient light including the bright day
3	OCC Mode: Automatically turn on the loads in any ambient light including the bright day

SETTING FOR DIFFERENT MODES

OCC Mode: Automatic ON & Automatic OFF

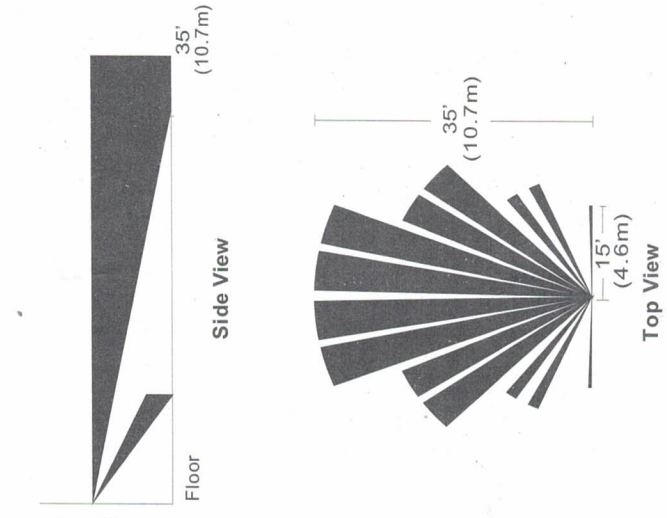
1. Set delay TIME to "0", "1", "2" or "3" as desired.
2. Set human body SENSOR sensitivity as desired.
3. Set LIGHT sensitivity to "1", "2" or "3" as desired. **DO NOT set the LIGHT to "0".**

VAC Mode: Manual ON & Automatic OFF

1. Set delay TIME to "0", "1", "2" or "3" as desired.
2. Set human body SENSOR sensitivity as desired.
3. Set LIGHT sensitivity fully counterclockwise to "0" to disable automatic ON function. The device will turn on the loads manually only and turn off the loads automatically when the time delay elapses.

COVERAGE PATTERNS

The sensor detects motion in areas up to 900 sq. ft. and up to 35 feet from the sensor. Ideally, the sensor is designed for small amounts of motion in space up to 300 sq. ft. The Fresnel lens on the sensor is a multiple segment viewing lens with a field of view of 180°. The sensor must have a clear view of the people in the space in order to detect occupancy. Obstructions, such as furniture blocking the sensor's lens, may prevent occupancy detection.



ONE YEAR LIMITED WARRANTY

The warranty gives you specific rights and you may also have other rights, which vary in different states and countries. Our company warrants to the original consumer purchaser that this product is free of defects in materials and workmanship for 1 year from the purchase date. This warranty does not cover labor for removal or reinstallation of the product and is void on any product installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner. Our company excludes incidental or consequential damages for breach of any warranty on this product. Some jurisdictions may not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusions or limitations may not apply to you.

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