

### SMRT-WALL-OCC-VAC-PIR-NON DIM

PASSIVE INFRARED (PIR) MOTION SENSOR
WALL MOUNT, NON DIMMING
OCCUPANCY OR VACANCY, DAYLIGHT HARVESTING

## INSTALLATION INSTRUCTIONS

### MOUNTING LOCATION

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

### TOOLS NEEDED FOR INSTALLATION

Electrical Tape Slotted / Phillips Screwdriver Pliers Cutters Ruler Penci

## PREPARATION BEFORE INSTALLATION

Turn OFF Power:

1. The occupancy sensor wall switch turns lighting or fan loads on

designed to replace a standard light switch. The switch operates and off based on occupancy and ambient light level. They are UNIT FEATURES AND DESCRIPTION

Turn power OFF at circuit breaker (or remove fuse)

### Remove Wallplate and Switch:

remove the switch from the wall (do not remove wires). Remove wallplate and switch mounting screws. Carefully

### Identify the Type of Circuit:

### Single-Pole

3. In Automatic ON & Automatic OFF mode, the sensor turns on

it detects motion after the 2-second reset.

blinks upon occupancy and then resets. It will blink again when

notion and defines it as occupancy. A red LED in the sensor

space is vacant and the time delay elapses, it turns off the load the load automatically when it detects occupancy. Once the 2. The sensor uses passive infrared technology to sense human

with 120 to 277V AC line voltage.

Neutral

Load Ground



### Two Location Control

5. If adequate ambient light is already present in the area, the

below a field selectable level and the sensor detects occupancy sensor will hold off the load it controls. When the light drops vacancy sensors cannot be converted to occupancy sensors. can be converted to vacancy sensors (model# SP17VS), while

4. With different settings, occupancy sensors (model# SP17OS)

automatically.

Line (Hot)

Ground Neutral

1. CAUTION: To avoid overheating and possible damage to this

device and other equipment, DO NOT install to control a

WARNINGS AND CAUTIONS

the sensor turns on the load.

Traveler (note color)

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

### 4. Before Wiring the Device:

- Make sure that the ends of wires from the wall box are straight (cut if necessary).
- 2. 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.

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

For single-pole applications, go to Step 4A.

9. Clean the sensor with a piece of soft damp cloth only. Do not 8. For indoor use only. Operate between 32 to 104 °F (0 to 40 °C)

use any chemical cleaners.

6. The sensing switch requires an unobstructed view of room Do not use this product to control loads in excess of specified Use this device with copper or copper clad wire only.

ratings, or it may cause death, injury or property damage.

occupants to detect motion.

Hot objects or moving air currents can affect the performance of

the sensing switch.

If you are unsure about any part of these instructions, consult an To be installed and/or used in accordance with appropriate

electrical codes and regulations.

For two location control applications, go to Step 4B

## **4A - INSTALLATION FOR SINGLE POLE**

MODEL # SMRT-WALL-OCC-VAC-PIR-NON DIM
PASSIVE INFRARED (PIR) NON DIMMING WALL MOUNTED MOTION SENSOR
OCCUPANCY OR VACANCY

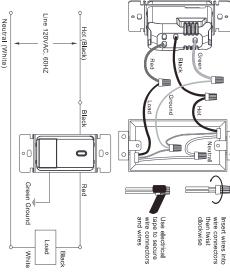
LED / CFL 300W, INCANDESCENT 600W, 1/2 HP MOTOR 120V / 277V 60 Hz

### 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
- Screw wire connectors on clockwise making sure no bare conductors Connect Load wire(s) in the wall box to the Red wire of the device. show below the wire connectors. Secure each connector with
- Mount device in the wall box with screws and mount wall plate. Restore power at circuit breaker or fuse.

electrical tape.

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



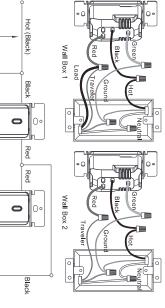
NOTE:

- A ground connection is required to operate. Use the ground it is not grounded. available, consult an electrician. The device will not function if wire in the wall box for ground connection. If no ground is
- 2. The hot (black wire) and load (red wire) must be correctly and load wiring of the sensor. function. If the light never turns on, then try to reverse the hot connected as stated above, otherwise the device will not
- 3. 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 go to section PREPARATION FOR UNIT SETTING before seconds, it turns off the load automatically. For different settings mounting the wall plate.

# **4B - INSTALLATION FOR TWO LOCATION CONTROL**

### 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.
- 3. Connect Load wire(s) and Traveler wire in the wall box wire to the 2. Connect Hot wire in the wall box to the Black wire of the device.
- Screw wire connectors on clockwise making sure no bare conductors show below the wire connectors. Secure each connector with Red wire of the device.
- Mount device in the wall box with screws and mount wall plate. electrical tape
- the wall box. (the load wire may only exists in one wall box) Repeat step 1-6 for installing another sensor switch to the wires in
- 7 Restore power at circuit breaker or fuse
- Wait 30 seconds for product booting for the first time, the device will turn on the loads automatically when it detects motion. Then keep consult an electrician if the loads do not turn on or off automatically. automatically until the time delay elapses. Check the wiring again or the space vacant for 30 seconds, the device will turn off the loads



### Neutral (White)

Wall Box

Wall Box 2

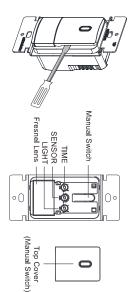
Line 120VAC, 60HZ

- Either sensor can turn the lights ON.
   Either sensor must time-out to OFF, or both manual buttons A ground connection is required to operate. Use the ground must be pressed for the lights to turn OFF
- available, consult an electrician. The device will not function if wire in the wall box for ground connection. If no ground is
- it is not grounded.

  4. The hot (black wire) and load (red wire) must be correctly and load wiring of either or both sensors. function. If the light never turns on, then try to reverse the hol connected as stated above, otherwise the device will not
- 5. 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 the section PREPARATION FOR UNIT SETTING before

### PREPARATION FOR UNIT SETTING

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





Delay Time





Sensor Sensitivity

Light Sensitivity

LIGHT	3 Au	2 Au	1 Au	0 Au	• Te	TIME
NOTE	Automatically turn off the loads after 30 minutes	Automatically turn off the loads after 15 minutes	Automatically turn off the loads after 5 minutes	Automatically turn off the loads after 1 minute	Test Mode: Automatically turn off the loads after 30 seconds	NOTE

ω	2	_	٠	LIGHT	
OCC Mode: Automatically turn on the loads in any ambient light, including the bright day	OCC Mode: Automatically turn on the loads in dim ambient light	OCC Mode: Automatically turn on the loads in dark ambient light	VAC Mode: Manual ON and Auto OFF when time delay elapses	NOTE	

### SETTING FOR DIFFERENT MODES

## OCC Mode: Automatic ON & Automatic OFF

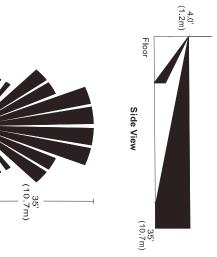
- Set delay TIME to " " , "0", "1" , "2" or "3" as desired
- Set human body SENSOR sensitivity as desired.
- Set LIGHT sensitivity to "1", "2" or "3" as desired. DO NOT set the LIGHT to "•".

### VAC Mode: Manual ON & Automatic OFF

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

### **COVERAGE PATTERNS**

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



### ONE YEAR LIMITED WARRANTY

Top View

(4.6m)

of installation errors, such as but not limited to SMRT Commercial Lighting Controls offers a www.installsmrtcontrols.com Representative or the factor for details. incorrect wiring, voltages etc. Contact your local deemed detective, and are not detective as a result Limited Lifetime Warranty on products that are

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