

# Combination Occupancy Sensor with Fan Switch



Cat. No. DOD05 - INDOOR USE ONLY. 120VAC, 60Hz - Single Pole Only

Fan Load (BLUE Wire) = Fan: 1/4 Hp, LED/CFL: 300W, Incandescent/Halogen: 600W, ELV/MLV: 400VA

Light Load (RED Wire) = 150W LED/CFL, 250W Incandescent/Halogen, 200VA Magnetic Low-Voltage, 250VA Electronic Low-Voltage, 2A Resistive

## WARNINGS:

- TO AVOID FIRE, SHOCK, OR DEATH, TURN OFF POWER AT CIRCUIT BREAKER OR FUSE, AND TEST THAT THE POWER IS OFF BEFORE WIRING!
- TO AVOID PERSONAL INJURY OR PROPERTY DAMAGE, DO NOT install to control a receptacle or a load in excess of the specified rating.
- To be installed and/or used in accordance with electrical codes and regulations.
- If you are not sure about any part of these instructions, consult an electrician.

## CAUTIONS:

- DO NOT attempt to service or repair. There are no user-serviceable components.
- Use this device with **COPPER OR COPPER-CLAD WIRE ONLY**.
- To avoid damage to the product, DO NOT use disinfecting products, including foggers, sprays or other types of atomized cleaning agents.
- DO NOT spray liquid onto the product.
- To clean, use a damp cloth with mild soap.

DI-000-DOD05-02A

## INSTALLATION INSTRUCTIONS

ENGLISH

## Features

Leviton's Combination Occupancy Sensor with Fan Switch senses when someone enters and leaves the room, and turns the lights ON and OFF accordingly. The sensor also has a second switch that can control fans or other loads. Some other features are:

- A sensing angle of 180 degrees, and a 30 ft x 30 ft sensing coverage area.
- Adjustable ambient light, time delay, and area of coverage controls.
- An indicator light that alerts you to the device's status.
- A second load switch for manual ON/OFF control, or program as a countdown timer that turns the load OFF automatically after the programmable time period (15, 30, or 45 minutes).
- Adjustable time delay settings for 1, 5, 10, and 20 minutes, a Test mode that turns the device on for 5 seconds, and a Temporary Disable mode that disables the Auto-on feature.
- Built-in Zero Cross turn-ON technology to extend the life of switching relays.
- Color change kits available in white, light almond, ivory, black, brown, and gray.

## Location

### CAUTIONS:

- DO NOT mount the device directly above a heat source, in a location where hot or cold drafts blow directly on the sensor, or where there may be unintended motion in the sensor's field-of-view, such as in a hallway.
- The device also responds to temperature changes, which may lead to inadvertent operation.

Mount the device at a level that can detect motion.

## You Will Need

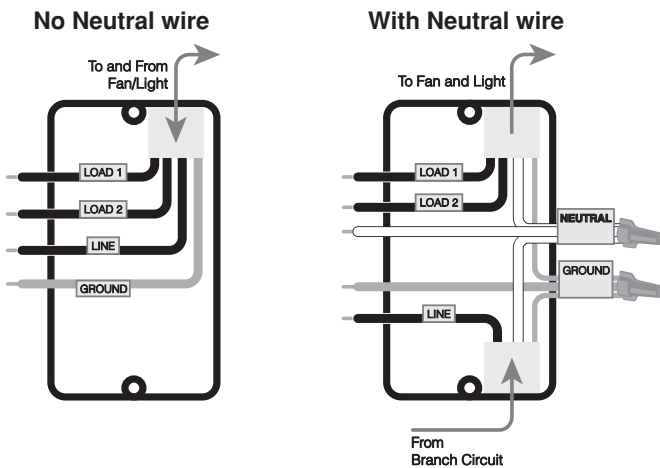
- Slotted or Phillips screwdriver
- Electrical tape
- Cutters
- Pliers

## Installation

**WARNING: TO AVOID FIRE, SHOCK, OR DEATH, turn the power OFF at the circuit breaker or fuse, and test that the power is OFF before wiring.**

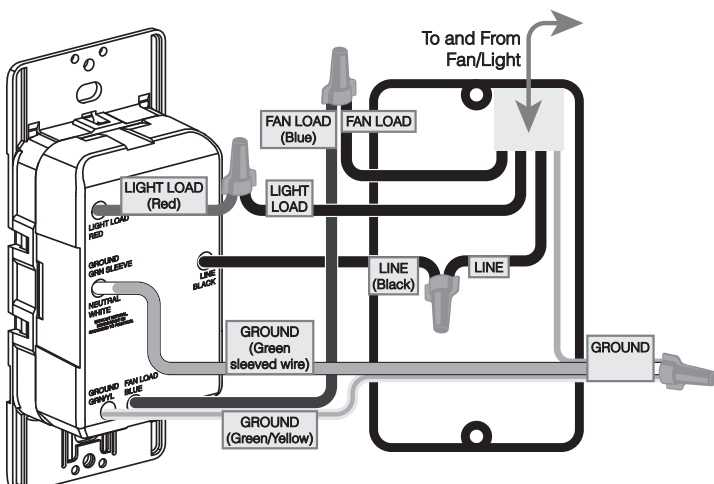
### 1. Identify your wires (most common):

**NOTE: A Neutral wire (if present) or a Ground wire is required for operation.**  
If the wiring in the wallbox is different from this configuration, consult an electrician.



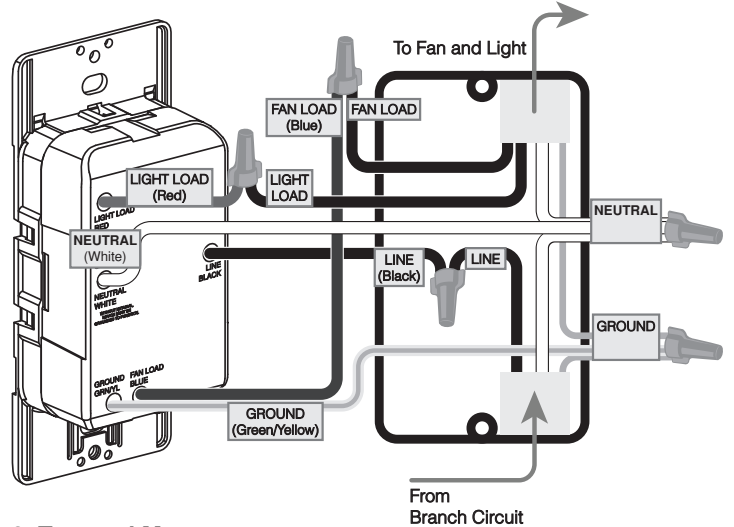
### 2a. Wire (when a Neutral wire is NOT present)

Work on one connection at a time, and connect the wires, as shown below.



### 2b. Wire (when a Neutral wire IS present)

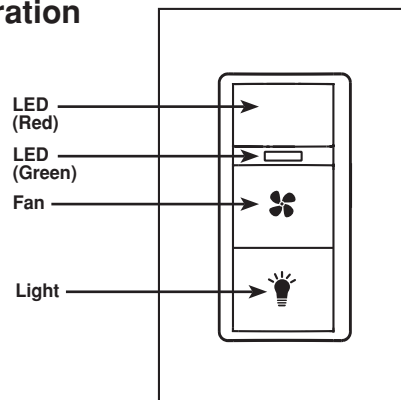
Remove the Green sleeve from the White wire.  
Work on one connection at a time, and connect wires, as shown below.



### 3. Test and Mount

- Restore power. Wait 10-20 seconds for the sensor to power up.
- During power up, the Green light blinks once every 5 seconds.
- Push the Fan and Light buttons to test each load.
- Turn the power OFF at circuit breaker.
- Gently, push the wires into the wallbox, and attach the device to the wallbox.
- Install a wallplate.
- Restore the power at the circuit breaker or fuse.

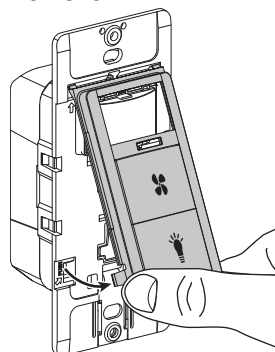
## Operation



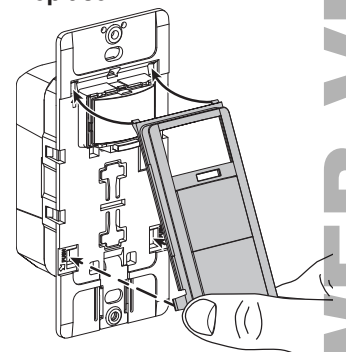
Mode or Status	LED Color	LED Status
Power Up	Green	Blinks once every 5 seconds.
Light Load OFF	Green	On
Light Load ON	All	Off
Temporary Disable	Green	Double-flash every 2 seconds.
Motion Detected	Red	Blinks once with every motion detected.
Test Mode	Red	Blinks once every 2 seconds.
Program Mode	Red/Green	See the Programming Table.

## Changing Your Device Color

### Remove



### Replace



Available in White (W), Light Almond (T), Ivory (I), Brown (B), Black (E), and Gray (G) (DHDKT-1Lx).

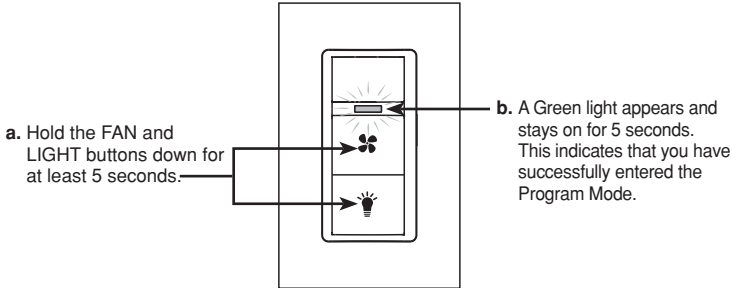
WEB VERSION

# Programming

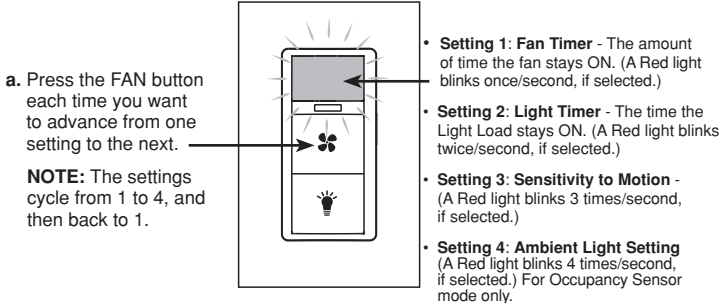
The table below describes each setting and each option within that setting. When in the Program mode, the sensor's LEDs blink a red or green light sequence to verify the settings you selected. For example, if you select the Light Timer setting, the Red LED blinks 2 times. If you want to set the light timer to 5 minutes, the Green LED blinks two times.

Setting Types and Options (Default Settings Are Highlighted)				
Option Number	Setting 1	Setting 2	Setting 3	Setting 4
	<b>FAN TIMER</b> The duration of time the Fan Load stays ON when activated. (Red light blinks 1x.)	<b>LIGHT TIMER</b> The duration of time the Light Load stays ON after the last detected motion. (Red light blinks 2x.)	<b>SENSITIVITY</b> Motion sensitivity. Set the major and minor deflection ranges. (Red light blinks 3x.)	<b>AMBIENT LIGHT</b> If the room is brighter than the setting selected, the Light Load will not turn ON. (For Occupancy Sensor Mode Only) (Red light blinks 4x.)
Option 1 (Green blinks 1x)	Manual	1 Minute	Low (50% Range)	Low Light Level
Option 2 (Green blinks 2x)	15 Minutes	5 Minutes	Medium	Medium Light Level
Option 3 (Green blinks 3x)	30 Minutes	<b>10 Minutes</b>	High	High/Brightest Light Level
Option 4 (Green blinks 4x)	45 Minutes	20 Minutes	Returns all settings to their defaults.	Disabled-Turns ON for all light levels.

1. Enter the Program Mode. Make sure the Light Load is ON.



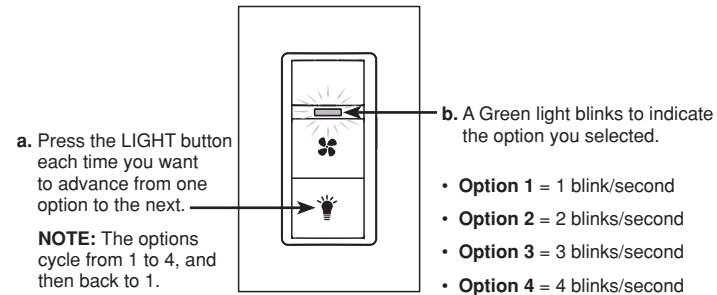
2. Select one setting at a time, and program it to the desired option. (See the Setting Types and Options table above.)



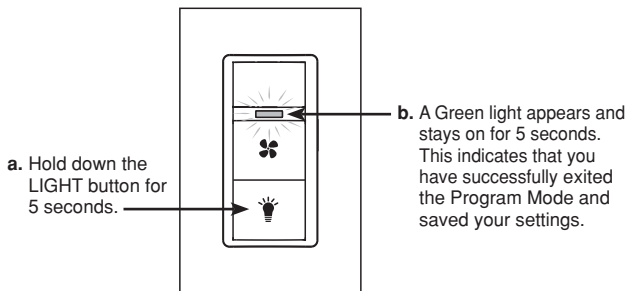
**NOTE:** Once you enter the Program Mode, you can change multiple settings before you save and exit.

3. Change the option within each setting. (See the Setting Types and Options table above.)

**NOTE:** The default option for each setting is highlighted in the table.



4. Save your settings, and exit the Program Mode.



- NOTES:**
- After 60 seconds of inactivity, the device automatically exits the Program Mode, and your settings are not saved.
  - When you enter the Program Mode again, you start at the Fan Timer setting in the last saved option. The default setting is Option 1: Manual.

## Test Mode

- Hold down the Fan button for 5 seconds. A Red light blinks once every 2 seconds.
- Walk around in any area you want to test. In the Test Mode, every motion detected triggers the Light Load for 5 seconds.
- Press the Light button to exit the Test Mode. The Test Mode times-out after 2 minutes.

**NOTE:** The Green locator LED function is disabled when in the Test Mode.

## Temporary Disable Mode

- To temporarily disable the Light Load from turning ON, press and hold the Light button for 5 seconds.
- The sensor ignores motion, and the Light Load stays OFF. A Green light double-flashes every 2 seconds.
- Press the Light button to exit the Temporary Disable Mode.

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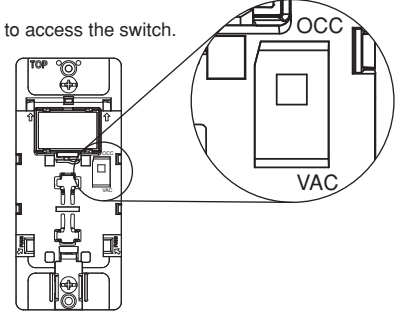
## When to Use Occupancy or Vacancy

Programming Mode	When to Use	Amount of Ambient Light Present	Light Turns ON When...	Light Turns OFF When...
Occupancy	When automatic ON/OFF lighting control is desired.	1. Low: Light turns ON automatically if the room is darkest. 2. Medium: Light turns ON automatically if the room has more light. 3. High: Light turns ON automatically if the room has the most light. 4. Disabled: Light always turns ON with motion.	User walks into the view of the sensor when the light is OFF, and it is darker than the ambient light level setting. -OR- The user presses the Light button.	No motion is detected for the duration of the programmed time period. -OR- The user presses the Light button.
Vacancy	When Manual ON and Automatic OFF lighting control is desired.	N/A	The user presses the Light button. -OR- The user moves around within 30 seconds of when the light automatically turns OFF.	The user presses the Light button. -OR- No motion is detected for the duration of the programmed Light Timer period.

**NOTE:** When you turn the light OFF manually, the sensor ignores motion for 30 seconds to allow the user to exit the room without re-triggering the light.

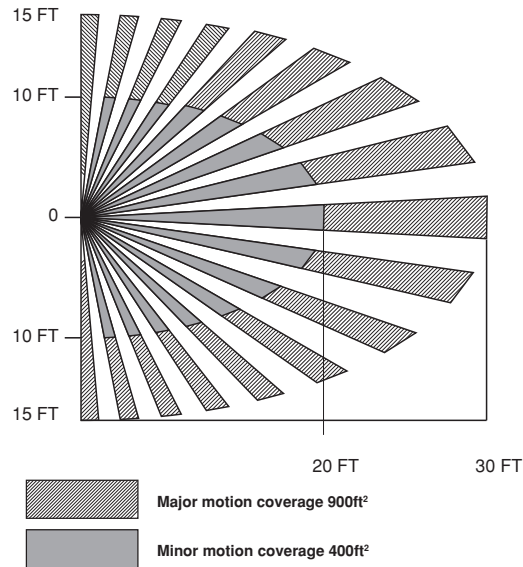
## Occupancy/Vacancy Switch

Remove the wallplate and color kit to access the switch.

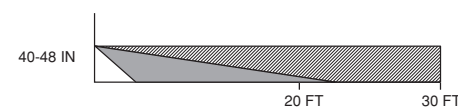


## Sensing Area Coverage

### 1. Horizontal Field-of-View:



### 2. Vertical Field-of-View:



## What to do if...

Issue	Make this adjustment
The Light and Fan loads do not operate with the push pad, and the Red indicator does not blink when motion is present.	<ul style="list-style-type: none"> <li>Verify wiring connections to sensor.</li> <li>Make sure that device is installed correctly.</li> <li>Make sure the power is ON.</li> <li>Check to make sure the light bulb and fan are functional.</li> </ul>
Lights do not switch ON when motion is detected.	<ul style="list-style-type: none"> <li>Motion is beyond the sensing range - move closer to the switch.</li> <li>Adjust the ambient light level lower (Option 3, 2, 1 or disable). The Red light blinks to indicate motion. If it blinks and the load is not turning ON, it may be the ambient light.</li> <li>Check to make sure that the Occ-Vac switch is in OCC position.</li> </ul>
Lights always stay ON.	<ul style="list-style-type: none"> <li>Check time delay settings and compare to how long the lights stay ON.</li> <li>Make sure no motion occurs in the coverage area for the time selected by covering the lens.</li> <li>Check that the switch is not installed near a heat source, such as a stove, lights, or heat vents, or detecting motion from an adjacent area, such as a hallway. If it is, relocate it.</li> </ul>
Fan turns ON when the Light button is pressed.	The device is wired incorrectly. Switch the Red and Blue wires. The Blue wire goes to the fan, and the Red wire goes to the light.

## FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## IC STATEMENT

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Patents covering this product, if any, can be found on [www.leviton.com/patents](http://www.leviton.com/patents).

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## FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada ULC to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1-800-405-5320.

## LIMITED 5 YEAR WARRANTY

For Leviton's limited product warranty, go to [www.leviton.com](http://www.leviton.com). For a printed copy of the warranty, call 1-800-824-3005.

For Technical Assistance, call 1-800-824-3005 (USA Only) or 1-800-405-5320 (Canada Only) [www.leviton.com](http://www.leviton.com).