

## PRODUCT BULLETIN

# decora® Universal Occupancy/Vacancy Sensors

Leviton's new line of Occupancy and Vacancy Sensors combine state-of-the-art technology with new aesthetics to provide optimal management of lighting and motor loads and a choice of either Manual-ON (Vacancy Sensor) or Automatic-ON (Occupancy Sensor) switching. These energy-saving sensors are engineered to ensure that lights/motors will turn ON manually or automatically and turn OFF automatically when motion is no longer detected within the covered range. Designed to fit in a standard wallbox, these devices offer 180° Field of View and 900 sq. ft. of coverage.

### Applications

Leviton's Occupancy and Vacancy Sensors can be used in a variety of residential settings including:

**Bathrooms**  
**Garages**  
**Hallways**  
**Basements**  
**Utility/Laundry Rooms**

**Living/Family Rooms**  
**Bedrooms**  
**Dining Rooms**  
**Kitchens**

### GENERAL OPERATION

Leviton's sensors use passive infrared (PIR) detection technology to monitor a room for occupancy through a segmented lens. This specialized lens divides the field of view into sensor zones. The sensors are available as Automatic-ON (occupancy) or Manual-ON (vacancy) models.

### MANUAL-ON OPERATION (Vacancy Sensors)

Vacancy sensors require the user to manually press the push-button to turn loads ON. The loads will remain ON as long as the device detects activity in the sensor zone. The device will not turn loads ON automatically when motion is detected. Loads may be manually turned OFF at any time by pressing the push-button. Leviton vacancy sensors are CA Title 24 compliant.



*For use with LED, CFL and Incandescent lamps*



### AUTOMATIC-ON OPERATION (Occupancy Sensors)

Occupancy sensors switch lights ON automatically when motion is detected. The lights will remain ON as long as the device detects activity in the sensor zone. Lights may also be switched OFF at any time by manually pressing the push-button.

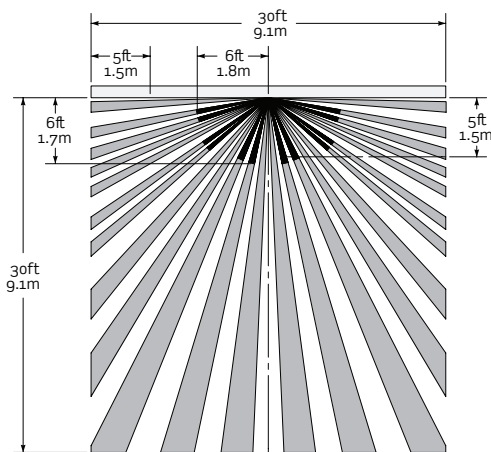
All Leviton occupancy sensors feature an override function which, when activated, allows the device to operate as a vacancy sensor.

## Features and Benefits

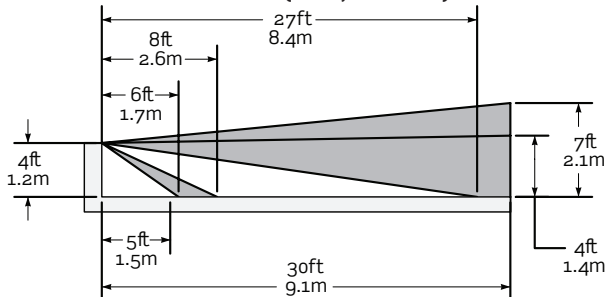
- Manual-ON or Automatic-ON models available providing users the option to choose the functionality that best suits their needs
- Screw terminals for easier installation
- Variety of models for control of LED, CFL, Incandescent, Halogen, Fluorescent ballast or Motor loads
- Provides 180° Field of View, 900 sq. ft. coverage making these devices suitable for use in large areas such as basements, garages and living rooms
- Low profile design blends in with walls for a discreet appearance
- Ambient light override prevents occupancy sensors from switching the lights ON when there is ample natural sunlight
- Adjustable delayed OFF time which can be set for 30 seconds, 5 minutes, 15 minutes or 30 minutes for effective energy management
- Neutral not required in most models for ease of installation in remodel or new construction
- CA Title 20 Compliant\*
- IPV05, IPVD6, IPV02 and IPV15 are CA Title 24 Compliant
- Contemporary styling in line with Leviton's Decora® line of wiring devices
- Compatible with Decora screwless wallplates
- Color change kits are available providing easy coordination with other room elements and the ability to update the look of the device with changes in décor

## SENSING AREA COVERAGE

Field-of-View (Horizontal)



Field-of-View (Side, Vertical)



## Dimming Sensor - IPSD6 / IPV6D6

- Offers maximum energy savings by combining the functionality of a sensor with the versatility and ambiance control of a dimmer
- Single pole or 3-way when used with a 3-way switch
- Compatible with most dimmable LED, dimmable CFL and Incandescent loads
- Ideal for adjusting lighting loads to create ambiance or to provide appropriate task lighting

## Relay Sensor - IPS02 / IPV02 / IPS05 / IPV05

- Single pole only
- For use with LED, CFL, Incandescent, Fluorescent Ballast or Motor loads
- Relay-based sensor for reliable switching of desired load
- No neutral required for ease of installation in homes where neutral is not available
- Ground required for operation

## Occupancy Sensor - IPS06

- Controls Incandescent and LED loads
- Single pole or 3-way when used with a standard 3-way switch
- No neutral required

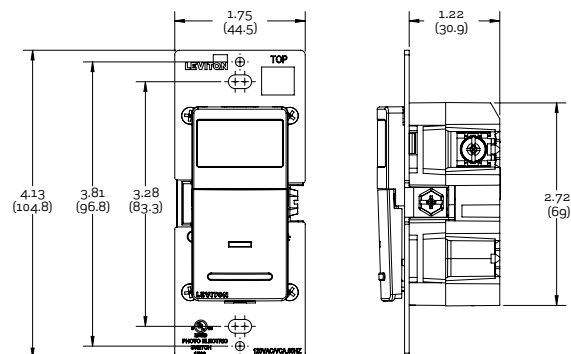
## Relay Sensor - IPS15 / IPV15

- Single pole or 3-way when used with IPVoR sensor remote or with VPoSR Vizia + switch remote
- For use with LED, CFL, Incandescent, Fluorescent Ballast or Motor loads
- Ideal for higher power lighting and motor loads
- Neutral required for installations in new construction or where the neutral wire is accessible
- Relay-based sensor provides reliable switching of desired load
- IPVoR sensor remote
  - Manual ON occupancy sensor remote
  - 180°, 900 sq. ft. coverage

## Warranty Information

Five-year limited warranty

## Dimensional Drawings



\*Items meet California code of regulation Title 20, required Feb. 1, 2013

## Specifications At-A-Glance

|                                                   | IPSo2          | IPVo2          | IPSo5          | IPVo5          | IPSo6                    | IPSD6                    | IPVD6                    | IPS15                      | IPV15                      |
|---------------------------------------------------|----------------|----------------|----------------|----------------|--------------------------|--------------------------|--------------------------|----------------------------|----------------------------|
| Voltage, frequency<br>120VAC, 60 Hz               | •              | •              | •              | •              | •                        | •                        | •                        | •                          | •                          |
| <b>Load Rating</b>                                |                |                |                |                |                          |                          |                          |                            |                            |
| LED                                               | 150W           | 150W           | 150W           | 150W           | 150W                     | 150W                     | 150W                     | 600W                       | 600W                       |
| CFL                                               | 150W           | 150W           | 150W           | 150W           | -                        | 150W                     | 150W                     | 600W                       | 600W                       |
| Incandescent/<br>Halogen                          | 300W           | 300W           | 600W           | 600W           | 600W                     | 600W                     | 600W                     | 1800W                      | 1800W                      |
| Motor                                             | 1/6 hp         | 1/6 hp         | 1/6 hp         | 1/6 hp         | -                        | -                        | -                        | 1/2 hp                     | 1/2 hp                     |
| Fluorescent Ballast                               | 200VA          | 200VA          | 600W           | 600W           | -                        | -                        | -                        | 1800VA                     | 1800VA                     |
| Resistive                                         | 2.5 amps       | 2.5 amps       | 5 amps         | 5 amps         | -                        | -                        | -                        | -                          | -                          |
| <b>Mechanical</b>                                 |                |                |                |                |                          |                          |                          |                            |                            |
| Neutral Required<br>for Operation                 | No             | No             | No             | No             | No                       | No                       | No                       | Yes                        | Yes                        |
| Ground Required<br>for Operation                  | Yes            | Yes            | Yes            | Yes            | No                       | No                       | No                       | No                         | No                         |
| Switching<br>Technology                           | Relay          | Relay          | Relay          | Relay          | Triac                    | Triac                    | Triac                    | Relay                      | Relay                      |
| Single Pole/<br>3-Way or Single Pole              | Single<br>Pole | Single<br>Pole | Single<br>Pole | Single<br>Pole | Single<br>Pole/<br>3-Way | Single<br>Pole/<br>3-Way | Single<br>Pole/<br>3-Way | Single<br>Pole/<br>3-Way** | Single<br>Pole/<br>3-Way** |
| <b>Features</b>                                   |                |                |                |                |                          |                          |                          |                            |                            |
| 180°, 900 Sq. Ft.<br>Coverage                     | •              | •              | •              | •              | •                        | •                        | •                        | •                          | •                          |
| Passive Infrared<br>Sensing<br>Technology         | •              | •              | •              | •              | •                        | •                        | •                        | •                          | •                          |
| 30s, 5m, 15m, 30m<br>Time Delay                   | •              | •              | •              | •              | •                        | •                        | •                        | •                          | •                          |
| Ambient Light<br>Override                         | •              | -              | •              | -              | •                        | •                        | -                        | •                          | -                          |
| Auto/Manual ON                                    | Auto ON        | Manual<br>ON   | Auto ON        | Manual<br>ON   | Auto ON                  | Auto ON                  | Manual<br>ON             | Auto ON                    | Manual<br>ON               |
| Dimming                                           | -              | -              | -              | -              | -                        | •                        | •                        | -                          | -                          |
| <b>Certifications</b>                             |                |                |                |                |                          |                          |                          |                            |                            |
| UL                                                | •              | •              | •              | •              | •                        | •                        | •                        | •                          | •                          |
| CA Title 24<br>Code Compliance                    | -              | •              | -              | •              | -                        | -                        | •                        | -                          | •                          |
| CA Title 20 Code<br>Compliance*                   | •              | •              | •              | •              | •                        | •                        | •                        | •                          | •                          |
| <b>Environmental</b>                              |                |                |                |                |                          |                          |                          |                            |                            |
| Operating<br>Temperature<br>0°C to 40°C           | •              | •              | •              | •              | •                        | •                        | •                        | •                          | •                          |
| Relative Humidity<br>20% to 90%<br>non-condensing | •              | •              | •              | •              | •                        | •                        | •                        | •                          | •                          |
| Storage<br>Temperature<br>-10°C to 85°C           | •              | •              | •              | •              | •                        | •                        | •                        | •                          | •                          |

\*Items meet California Code of Regulation Title 20, required Feb. 1, 2013

\*\*3-Way with IPVoR Remote Sensor

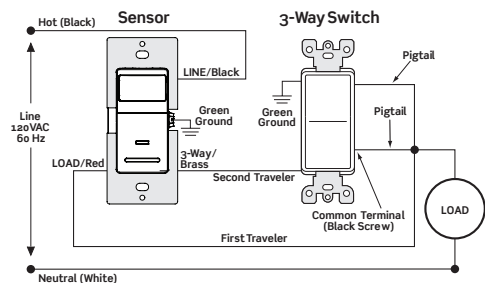
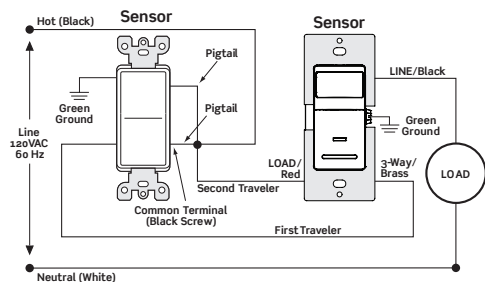
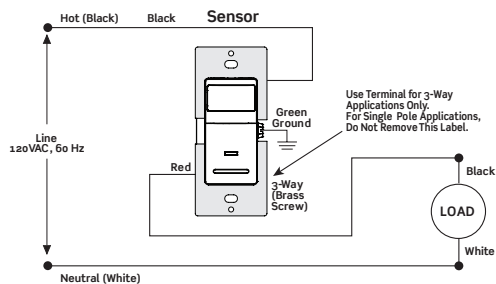
## Color Change Kits:

| Description                         | Cat. No. | Color         |
|-------------------------------------|----------|---------------|
| Color change Kits for Relay Sensors | IPDKT-00 | W, I, T, E, B |

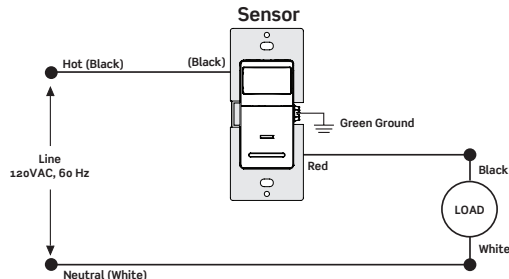
Z - Comes packaged with three colors: White, Ivory and Light Almond. Color change kits available in the following colors: White (-W), Ivory (-I), Light Almond (-T), Black (-E) and Brown (-B).

## Wiring Diagrams

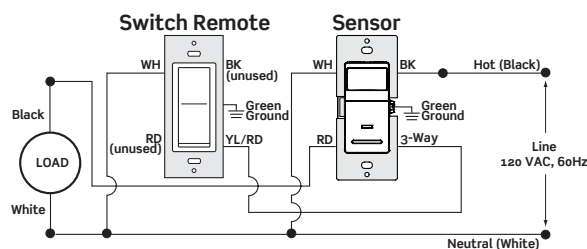
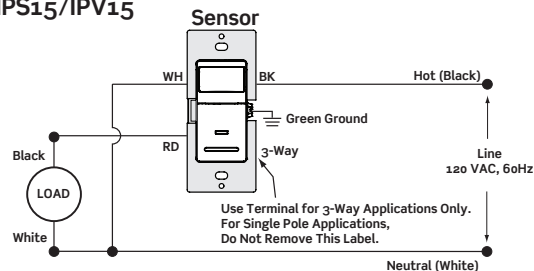
### IPSo6/IPVD6/IPSD6



### IPSo2/IPVo2/IPSo5/IPVo5



### IPS15/IPV15



## Ordering Information:

| Description                                                                                                | Rating (120VAC)                                             | Cat. No. | Color    |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------|----------|
| Relay Vacancy Sensor, single pole, 180° Field of View, 900 sq. ft. coverage                                | 300W Incand/FL Ballast, 150W LED/CFL, 1/6 HP Motor          | IPVo2    | W, LT    |
| Relay Occupancy Sensor, single pole, 180° Field of View, 900 sq. ft. coverage                              | 300W Incand/FL Ballast, 150W LED/CFL, 1/6 HP Motor          | IPSo2    | W, I, LT |
| Relay Vacancy Sensor, single pole, 180° Field of View, 900 sq. ft. coverage                                | 600W Incand/FL Ballast 150W LED/CFL, 1/6 HP Motor           | IPVo5    | Z        |
| Relay Occupancy Sensor, single pole, 180° Field of View, 900 sq. ft. coverage                              | 600W Incand/FL Ballast 150W LED/CFL, 1/6 HP Motor           | IPSo5    | Z        |
| Occupancy Sensor, single pole or 3-Way, 180° Field of View, 900 sq. ft. coverage                           | 600W Incand 150W LED                                        | IPSo6    | W        |
| Dimming Vacancy Sensor, single pole or 3-Way, 180° Field of View, 900 sq. ft. coverage                     | 600W Incand 150W LED/CFL                                    | IPVD6    | Z        |
| Dimming Occupancy Sensor, single pole or 3-Way, 180° Field of View, 900 sq. ft. coverage                   | 600W Incand 150W LED/CFL                                    | IPSD6    | Z        |
| Relay Vacancy Sensor, single pole or 3-Way**, 180° Field of View, 900 sq. ft. coverage, neutral required   | 1800W Incand, 600W LED/CFL, 1800VA Magnetic Ballast, 1/2 HP | IPV15    | Z        |
| Relay Occupancy Sensor, single pole or 3-Way**, 180° Field of View, 900 sq. ft. coverage, neutral required | 1800W Incand, 600W LED/CFL, 1800VA Magnetic Ballast, 1/2 HP | IPS15    | Z        |
| Sensor Remote, 120VAC, Manual-ON, Auto-OFF                                                                 | For use with IPS15 or IPV15 Sensor                          | IPVoR    | Z        |

\*\*3-Way with IPVoR Remote Sensor

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