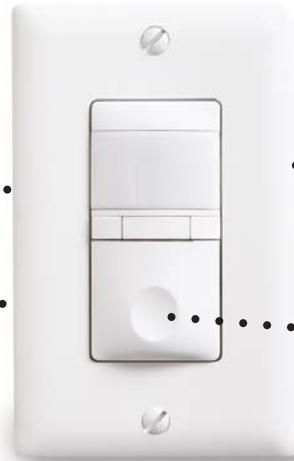


# RD-200 Passive Infrared (PIR) Dimming Wall Switch Vacancy Sensor

Occupancy-based control with full-range dimming

Compliant with California Title 24-2005

Adjustable time delay and light level sensing



Ideal for living and dining rooms, master bathrooms and bedrooms

Lighted pushbutton for visibility in darkened rooms

PROJECT

LOCATION/TYPE

## Product Overview

### Description

The RD-200 PIR Dimming Wall Switch Vacancy Sensor provides preset dimming control and occupancy-based automatic lighting shutoff for applications throughout the home.

### Operation

The RD-200 uses advanced PIR technology to sense the difference between infrared energy from a person in motion and the background space. It provides automatic shutoff after a time delay when there is no occupancy. When operating in manual-on mode (the factory setting) users must tap the pushbutton to turn on lighting. This setting may be changed to automatic-on if desired. When automatic-on operation has been selected, the adjustable light level sensor may be set to prevent lights from turning on automatically if sufficient daylight is present.

Once lighting is on, the dimming level may be adjusted by pressing and holding the pushbutton. The RD-200 may be turned off manually by tapping the pushbutton. The next time the RD-200 brings the lighting on, lighting will be at the previously selected level.

### Dimming Control

The RD-200 can dim incandescent loads from a minimum level of 10% to a maximum level of 100%. When the pushbutton is pressed and held, the RD-200 will ramp the lights up and down in a continuous cycle until the pushbutton is released. The dimming direction may be reversed by momentarily releasing the pushbutton and then pressing it again.

### Applications

The RD-200 is ideal for living, dining and family rooms, bedrooms, bathrooms and other indoor residential areas. It is used in place of a standard switch, dimmer or occupancy sensor and helps homeowners maximize energy savings and enjoy the most pleasing light level for a given task.

## Features

- Replaces standard single pole switch or incandescent dimmer
- Low-profile styling
- Choice of four decorator colors; lens is color matched to device
- Includes matching single-gang wall plate
- Lighted pushbutton for visibility in darkened rooms
- Manual-on or automatic-on operation
- Adjustable time delay from 15 seconds to 30 minutes
- Soft start technology to prolong lamp life
- Air gap isolation switch for safe relamping
- If enabled, light level sensing prevents automatic-on when adequate daylight exists

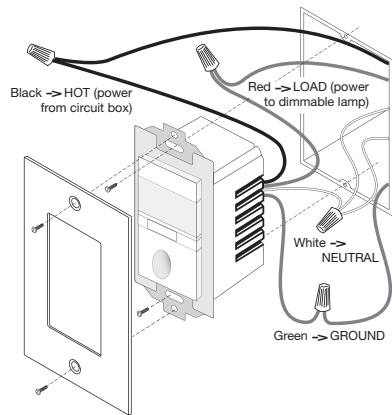


## Specifications

- 120 VAC, 60 Hz
- Coverage: 180°, max. 600 ft<sup>2</sup> (56 m<sup>2</sup>)
- Operates incandescent lighting from 25-500W
- Neutral connection required
- Adjustable light level setting from 10-150 fc (100-1500 lux) for daylight sensing
- Adjustable time delay from 15 seconds to 30 minutes
- 2.67" x 1.73" x 1.77" (68mm x 44mm x 45mm) L x W x D
- Operating conditions: 32°-104°F (0°-40°C), 95% RH, noncondensing
- UL listed; five-year warranty

## Installation & Wiring

### Wiring Diagram



### Derating

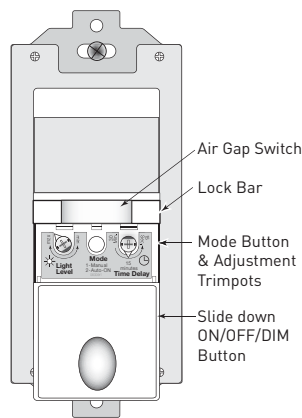
When more than one dimmer is installed in a multi-gang box, it is necessary to reduce the maximum load on each dimmer.

- For an RD-200 in either end position of a multi-gang box, reduce the maximum load by 50W.
- For an RD-200 in a central position of a multi-gang box, reduce its maximum load by 100W.

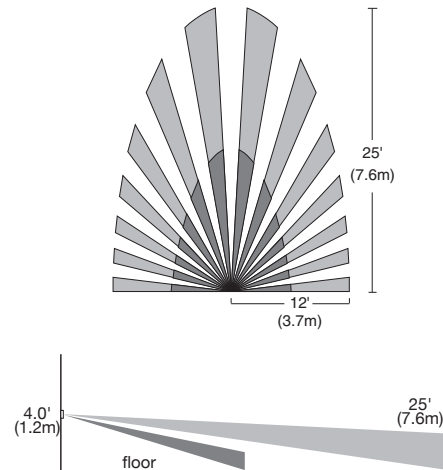
Mounting in a deep electrical box is recommended.

## Controls & Coverage

### Product Controls



### Coverage Pattern



## Ordering Information

| Catalog No.                        | Color        | Description    | Voltage        | Rating                                   | Coverage  |
|------------------------------------|--------------|----------------|----------------|--|---|
| <input type="checkbox"/> RD-200-B  | Black        | Dimming sensor | 120 VAC, 60 Hz | 25-500W<br>Incandescent<br>lighting load | 180° up to 600 ft <sup>2</sup> (56 m <sup>2</sup> ) |
| <input type="checkbox"/> RD-200-I  | Ivory        |                |                |  |   |
| <input type="checkbox"/> RD-200-LA | Light Almond |                |                |  |   |
| <input type="checkbox"/> RD-200-W  | White        |                |                |  |   |

One ASP-211 Single-gang Decorator Cover Plate included. Order ASP-422 for Two-gang Decorator Cover Plate with Blank Option, or ASP-432 for Two-gang Decorator Cover Plate with Toggle Switch Option.