

PIR DIMMING MULTI-WAY WALL SWITCH CONVERTIBLE OCCUPANCY SENSOR

RD-250

Automatic-off control with full-range dimming and multi-way capability

Adjustable time delay and light level sensor

Lighted pushbutton for visibility in darkened rooms



Ideal dimming and occupancy control for any small room with incandescent lighting

Choice of manual-on or automatic-on operation

Description

The RD-250 PIR Dimming Multi-way Convertible Occupancy Sensor provides preset dimming control, automatic lighting shutoff and optional automatic lighting activation.

Operation

The RD-250 operates either as a manual- or automatic-on sensor. When in manual-on mode, users must press the pushbutton to turn on lighting. Once lighting is on, the dimming level may be adjusted by pressing and holding the pushbutton. The RD-250 employs PIR technology to sense the difference between the infrared energy from a person in motion and the background space. It keeps lighting on as long as motion is detected and provides automatic shutoff, following a user-selected time delay, when motion is no longer detected. Users may turn the lighting off manually. The next time the RD-250 is turned on, the lighting will come on to the last light level.

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.

Dimming and Multi-way Control

The RD-250 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-250 will fade 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.

Lighting may be controlled from multiple locations by connecting additional RD-250s and/or RH-253 Single Pole Momentary Switches. When additional RD-250s are connected, each device provides full on/off and dimming control. Connected RH-253s provide on/off control only.

Applications

The RD-250 is ideal for bedrooms, living rooms, dining rooms, family rooms and senior living facilities requiring dimming control in one or more locations coupled with automatic shutoff. It helps occupants maximize energy savings and enjoy the most pleasing light level for a given task.

Features

- Replaces single- or multi-pole switches or incandescent dimmers
- Provides multi-way control when used with other RD-250s or RH-253s
- Adjustable time delay, 15 seconds to 30 minutes
- If enabled, light level sensing prevents automatic-on when adequate daylight exists
- Lighted switch for visibility in darkened rooms
- Low-profile styling
- Choice of five decorator colors; lens is color matched to device
- Soft-start technology to prolong lamp life
- Air gap isolation switch for safe relamping
- Compatible with decorator wall plates
- Compliant with Nonresidential CA Title 24 requirements

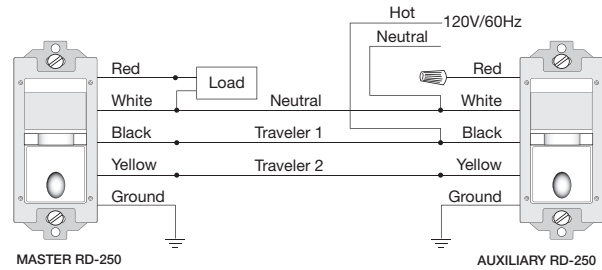
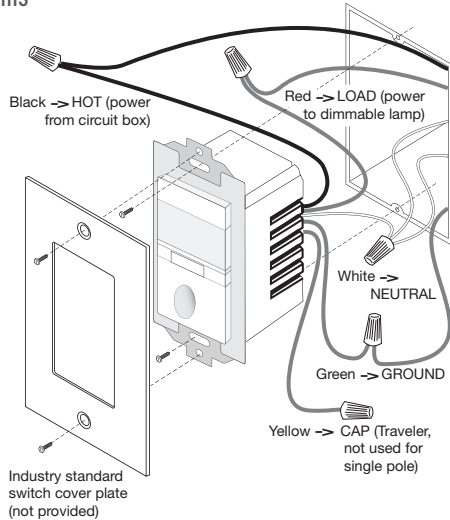
PROJECT		LOCATION/ TYPE	
---------	--	-------------------	--

Specifications

- 120 VAC, 60 Hz; neutral required
- Operates incandescent lighting from 25-500W
- Time delay settings: 15 seconds, 5, 15, 30 minutes
- Adjustable light level setting from 10-150 fc (100-1500 lux) for daylight sensing
- PIR coverage: 180°, 600 ft² (56 m²)
- 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, non-condensing; for indoor use only
- UL listed
- Five year warranty

Installation & Wiring

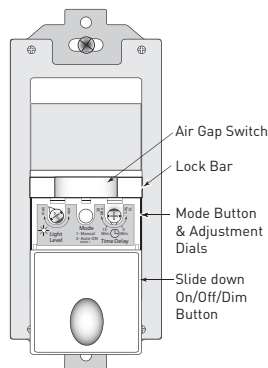
Wiring Diagrams



Up to four multi-location sensors may be connected together. For details on connecting RH-253s for multi-location control, see the RH-253 cut sheet.

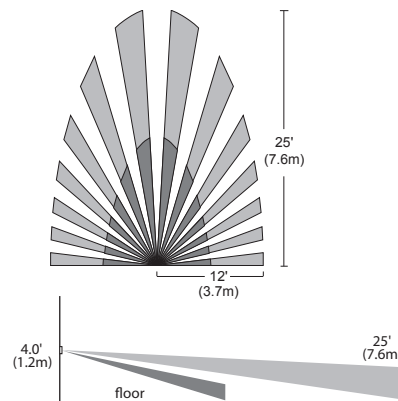
Controls & Coverage

Product Controls



To access adjustment dials, gently pull the lock bar away from the switch face and slide the on/off button down.

Coverage Pattern



Ordering Information

Catalog #	Color	Description	Voltage	Load Rating	Coverage
<input type="checkbox"/> RD-250-W	White	PIR Dimming Multi-Way Wall Switch Convertible Occupancy Sensor	120 VAC, 60 Hz	25-500W incandescent lighting	180°, max. 600 ft ² (56m ²)
<input type="checkbox"/> RD-250-I	Ivory				
<input type="checkbox"/> RD-250-LA	Lt. Almond				
<input type="checkbox"/> RD-250-A	Almond				
<input type="checkbox"/> RD-250-B	Black				

Order wall plate separately.