



RH-250 PIR Multi-way Wall Switch Convertible Occupancy Sensor

Automatic-off control with multi-way capability

Adjustable time delay

Lighted pushbutton for visibility in darkened rooms



Ideal for hallways, stairwells and large rooms with multiple entrances

Choice of manual-on or automatic-on operation

PROJECT
LOCATION/TYPE

Product Overview

Description

The RH-250 Passive Infrared (PIR) Multi-way Convertible Occupancy Sensor provides automatic lighting shutoff for applications in the home including those with multiple switch locations. It offers optional automatic lighting activation.

Operation

The RH-250 operates either as a manual- or automatic-on sensor. When in manual-on mode, users must press the pushbutton to turn on lighting. The RH-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.

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.

Multi-way Operation

An RH-250 connected to other RH-250s and/or RH-253 Decorator Single Pole Momentary Switches provides true multi-way on/off control. An occupant simply presses the on/off pushbutton of any connected device to turn on the lighting. Lights remain on as long as one of the RH-250s continues to detect occupancy. The user may turn off the lighting by pressing the on/off button on any of the connected devices. If the room becomes vacant and lights are on, they will be switched off automatically following the time delay of the last RH-250 to detect occupancy.

Applications

RH-250s are ideal for residential applications where the switch location has an unobstructed line of sight of the room. Multiple RH-250s can be used for lighting control in hallways, stairwells and large rooms with multiple entrances, as each sensor expands the coverage area.

Features

- Replaces single- or multi-pole switches
- Provides multi-way control when used with other RH-250s or RH-253s
- Adjustable time delay, 15 seconds to 30 minutes
- Lighted switch for visibility in darkened rooms
- If enabled, light level sensing prevents automatic-on when adequate daylight exists
- Low-profile styling
- Choice of five decorator colors; lens is color-matched to device
- Operates most common types of residential lighting
- Relay-based switching
- No current leakage to load in off mode for safety
- Compatible with decorator wall plates

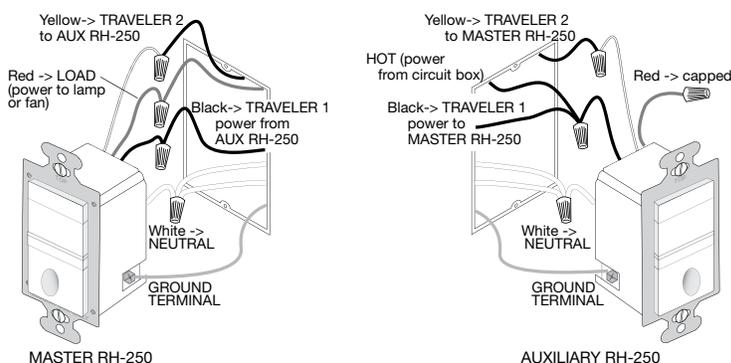


Specifications

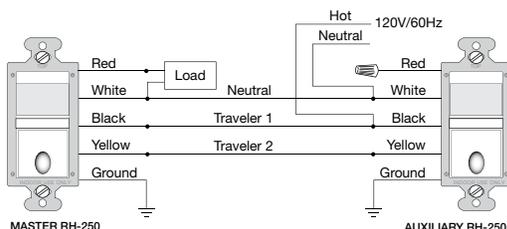
- 120 VAC, 60 Hz; neutral required
- Load ratings: 0-600 watt incandescent, LED, fluorescent, compact fluorescent (CFL), magnetic low voltage (MLV) or electronic low voltage (ELV) or 1/6 hp motor
- Time delay settings: 15 seconds, 5, 15, 30 minutes
- Adjustable light level setting from 10-150 fc (100-1500 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: 32-131°F (0-55°C), 95% RH, non-condensing; for indoor use only
- UL and cUL listed
- Five year warranty

Installation & Wiring

Wiring Diagrams

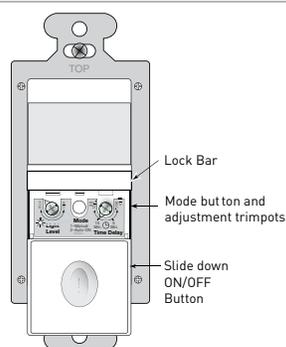


For single pole applications, cap off the yellow wire. Up to four multi-location sensors may be connected together. For details on connecting RH-253s for multi-location control, see the RH-253 cut sheet.



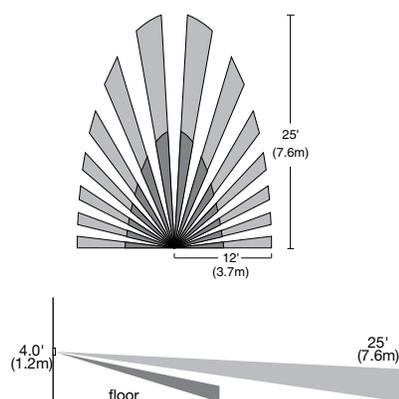
Controls & Coverage

Product Controls



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

Coverage Pattern



Ordering Information

Catalog No.	Color	Description	Voltage	Rating	Coverage
<input type="checkbox"/> RH-250-W	White	PIR Multi-way Wall Switch Convertible	120 VAC, 60 Hz	0-600W incandescent, LED, fluorescent, CFL, MLV, ELV lighting load or 1/6 hp motor load	180°, max. 600 ft ² (56m ²)
<input type="checkbox"/> RH-250-I	Ivory				
<input type="checkbox"/> RH-250-LA	Light Almond	Occupancy Sensor			
<input type="checkbox"/> RH-250-A	Almond				
<input type="checkbox"/> RH-250-B	Black				

Order wall plate separately.

RD-250 PIR Dimming Multi-way Wall Switch Convertible Occupancy Sensor

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 for bedrooms, family rooms,
dining rooms and living rooms

Choice of manual-on or
automatic-on operation

PROJECT

LOCATION/TYPE

Product Overview

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.

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

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 other residential areas requiring dimming control from one or more locations coupled with automatic shutoff. It helps homeowners maximize energy savings and enjoy the most pleasing light level for a given task.

- 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



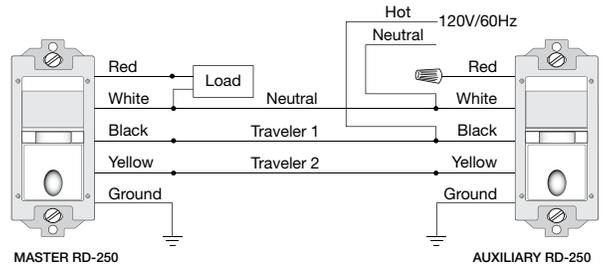
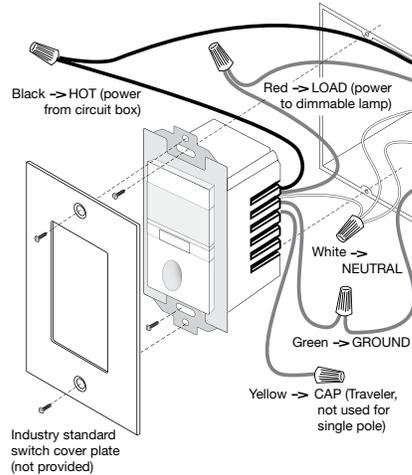


Specifications

- 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

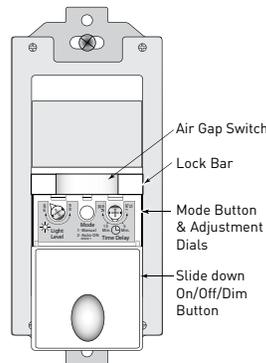
Wiring Diagrams



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.

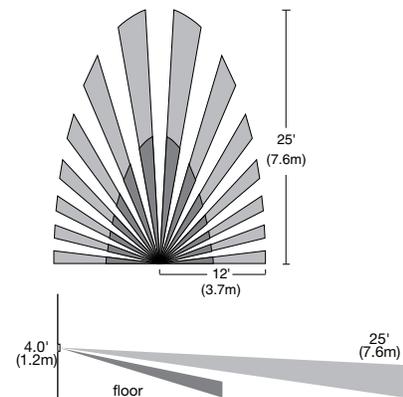
Controls & Coverage

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 No.	Color	Description	Voltage	Load Rating	Coverage
<input type="checkbox"/> RD-250-W	White	PIR Dimming	120 VAC, 60 Hz	25-500W incandescent lighting	180°, max. 600 ft ² (56 m ²)
<input type="checkbox"/> RD-250-I	Ivory	Multi-Way Wall			
<input type="checkbox"/> RD-250-LA	Light Almond	Switch Convertible			
<input type="checkbox"/> RD-250-A	Almond	Occupancy Sensor			
<input type="checkbox"/> RD-250-B	Black				

Order wall plate separately.