Bringing Energy Efficient Lighting Control Solutions Home

RESIDENTIAL WALL SWITCH SENSORS AND TIME SWITCHES

WattStopper

PUTTING A STOP TO ENERGY WASTE®
Bringing energy efficient lighting control solutions home

Watt Stopper/Legrand, long-time leader in commercial lighting control, now helps homeowners put a stop to energy waste.

Homeowners are always looking for ways to reduce their growing energy bills without breaking the bank. Watt Stopper/Legrand has the solution.

Turning lights off in empty rooms with convenient vacancy, occupancy or time-based control, our residential wall switch sensors and time switches combine simplicity with features that make sense in every living space. With a range of universal application and application-specific models, Watt Stopper/Legrand provides convenient control for every room in the home.

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Three control choices, greater application flexibility

Watt Stopper/Legrand residential sensors and time switches replace standard wall switches in a wide range of residential applications.

1. **Wall Switch Vacancy Sensors**
   Vacancy sensors detect when a space becomes vacant, and turn lighting off automatically after a preset time delay elapses. Users can manually turn lights on or off at any time by operating the ON/OFF button.

2. **Wall Switch Occupancy Sensors**
   Wall switch occupancy sensors detect when a room becomes occupied, and turn on the controlled lighting automatically. If no occupancy is detected for five additional minutes, lighting automatically switches off.

3. **Time Switches**
   Time switches are suitable choices in spaces where vacancy or occupancy sensors are inappropriate. Users can select from simple push-button timers for uncomplicated applications to LCD display programmable timers in spaces where more flexibility is desired.
Watt Stopper/Legrand switches have low-profile styling with uniform, color-matched lens and device. Homeowners will love the uncluttered look that provides a clean, seamless appearance.

Products are available in:

- Black
- Ivory
- Light Almond
- White

Inside and out, designed with the homeowner in mind

We’ve integrated the latest PIR technology into all of our home sensors at Watt Stopper/Legrand. PIR senses absence or presence by detecting the difference between heat emitted from a person in motion and the background space. PIR sensing relies on a clear line-of-sight view.

We’ve also incorporated a unique Fresnel lens into our sensors that divides the coverage area into multiple zones, enhancing detection of small movement and preventing lights from turning off while the room is still occupied.

Homeowners will benefit from superior performance that will bring greater comfort and convenience to their homes without taxing their budgets.

Ideal for the entire home
Bathrooms, bedrooms, laundry rooms all benefit from controls that save energy and enhance efficiency and convenience in today’s busy households.
Homeowners reap benefits of energy efficient lighting control

Long used in commercial applications, lighting controls are now being applied in homes to realize the same benefits.

Energy savings
Reducing lighting usage can reduce energy bills. In the aggregate, lighting controls in the residential sector can reduce peak demand at regional and national levels.

<table>
<thead>
<tr>
<th>Typical reduction in lighting usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laundry Rooms</td>
</tr>
<tr>
<td>Bathrooms</td>
</tr>
<tr>
<td>Garages</td>
</tr>
<tr>
<td>Bedrooms</td>
</tr>
<tr>
<td>Closets</td>
</tr>
<tr>
<td>Pantries</td>
</tr>
</tbody>
</table>

Convenience
Watt Stopper/Legrand residential wall switch sensors and time switches require little or no ongoing adjustment or maintenance for homeowners. They operate transparently for residents, eliminating the inconvenience of repeatedly turning off lights that others may have left on.

Trouble-free performance
With exceptionally reliable operation, Watt Stopper/Legrand controls provide years of effective, trouble-free performance.

Compatible with most standard lighting
Our wall switches work with a wide range of standard residential lighting types, so homeowners can use them throughout the home.

Ease of installation
Watt Stopper/Legrand residential wall switch sensors and time switches include installation time-savers such as fixed time delays and application-specific models that streamline installation and eliminate costly call-backs.
Energy code compliance

Homeowners will be thankful for the lower energy consumption, while you can appreciate that the new Watt Stopper/Legrand family of wall switch sensors and time switches offers the best solutions for residential code compliance.

Our vacancy sensors comply with California Title 24-2005, the toughest energy code in the nation. Our wall switch vacancy sensors and time switches provide least-cost code compliance and energy savings.

<table>
<thead>
<tr>
<th>All hardwired lighting must be high efficacy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vacancy sensors OR dimmers</strong></td>
</tr>
<tr>
<td>Alternative options for dining, family room, hallway/stairway, bedrooms, living room</td>
</tr>
<tr>
<td><strong>Up to 50% of relamping-rated wattage can be other than high efficacy</strong></td>
</tr>
<tr>
<td>Alternative option for kitchens</td>
</tr>
<tr>
<td><strong>Vacancy sensors</strong></td>
</tr>
<tr>
<td>Alternative options for utility rooms, laundry rooms, bathrooms, garages</td>
</tr>
</tbody>
</table>

California Title 24–2005 requirements for residential lighting control
New feature choices solve homeowners’ concerns for effortless lighting control

Watt Stopper/Legrand’s residential wall switch sensors and time switches offer convenience and simplicity. With the widest selection of models available on the market, a low-profile decorator design that features uniform, color-matched device and lens, and an industry-exclusive five-year warranty, we have an energy efficient control for every room in the home.

Light level sensing
Some models contain an optional built-in light level sensor that will hold off the lighting load when adequate daylight exists. This daylighting feature is easily adjustable.

Nightlight
Numerous models offer optional LED nightlights that automatically turn on when lighting turns off for enhanced negotiability throughout bedrooms and bathrooms.

Multiway
Replace existing 3-way switches with Multiway Vacancy Sensors which offer automatic lighting shutoff as well as multiway control. Two vacancy sensors controlling one load ensure optimal coverage of random traffic areas, such as hallways or stairways, or large spaces with multiple entries such as living rooms, family rooms or Jack and Jill bathrooms.

Dual relay
Increase energy savings by controlling two loads from a single switch location. Dual relay wall switch sensors offer push-button control for lighting and exhaust fans simultaneously.
Dimming
Adjust lighting levels for enhancing ambience as well as energy savings

Lighted switches
Our models feature discreet lighted switches so occupants can find switch buttons easily in darkened rooms.

Selectable time intervals
Multiple time interval options enable residents to easily choose the amount of time they need each time they enter a specific room.

Audible and visual alerts
Time switches provide alerts of impending lighting shutoff so occupants are never left in the dark.
Wall switches provide comfort anywhere at home

In **bedrooms**, a wall switch vacancy sensor with night-light offers comforting nighttime lighting.

In **bathrooms** where the wall switch has a view of the entire space, replace the switch with an application-specific wall switch vacancy sensor.

Control lighting and exhaust fans in **laundry rooms** with a Dual Relay Wall Switch Sensor for convenient, hands-free ON and OFF operation.
Spaces such as **closets** and **garages** are ideal for time-based control. With a programmable digital time switch replacing a standard wall switch, homeowners can eliminate wasted lighting.

In **family rooms**, replace wall switches with dimming vacancy sensors to add convenient preset dimming control with automated shutoff.

Bring convenience to **hallway or stairway lighting** with multiway wall switch vacancy sensors that provide both automatic OFF and multiway control.
Design guidelines for residential sensors and time switches

When beginning a residential control project, designers, contractors and homeowners will benefit from considering several steps:

**Step 1** Select a control strategy; determine how the room is used.

**Step 2** Identify special features/functions needed for each space.

**Step 3** Select the appropriate product.

**Step 4** Evaluate any installation considerations.

**Step 5** Set up, program and adjust the wall switch sensors and time switches.
Step 1: Select the control strategy.

When choosing between occupancy sensing and time-based control, ask the following questions about the space where the control will be used:

- **Is there clear line of sight throughout the space?**
  If there is, a PIR wall switch sensor will be ideal. A clear line of sight means that the sensor has an unobstructed view throughout the coverage zone. No obstacles, such as walls, doors or furniture should block the view. A switch’s line of sight may be blocked, for instance, in a bathroom where a shower enclosure has glass doors.

- **How is the room or space used?**
  Some spaces, such as a laundry room, closet or garage, may be used infrequently and for short intervals. Other rooms, such as bathrooms, will be used more frequently but for widely varied time periods. The matrix below suggests which control choice matches up with different usage patterns in a space.

- **Is code compliance required?**
  Currently, the State of California requires automated lighting controls in residential buildings (see Page 7).

### Room Type and Control Strategy

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Control Strategy Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hallway</td>
<td>Wall switch vacancy sensor with multiway operation</td>
</tr>
<tr>
<td>Master Bedroom</td>
<td>Wall switch vacancy sensor</td>
</tr>
<tr>
<td>Child’s Bedroom</td>
<td>Wall switch vacancy sensor with nightlight</td>
</tr>
<tr>
<td>Jack &amp; Jill Bathroom</td>
<td>Wall switch vacancy sensor with multiway operation</td>
</tr>
<tr>
<td>Master Bathroom</td>
<td>Wall switch vacancy sensor with nightlight</td>
</tr>
<tr>
<td>Family/Great Room</td>
<td>Dimming wall switch vacancy sensor</td>
</tr>
<tr>
<td>Dining Room</td>
<td>Wall switch vacancy or occupancy sensor</td>
</tr>
<tr>
<td>Powder Room</td>
<td>Seven-button preset time switch</td>
</tr>
<tr>
<td>Laundry Room</td>
<td>Time switch/wall switch occupancy sensor/wall switch vacancy sensor [California]</td>
</tr>
<tr>
<td>Garage</td>
<td>Programmable time switch</td>
</tr>
<tr>
<td>Pantry</td>
<td>Seven-button preset time switch</td>
</tr>
<tr>
<td>Living Room</td>
<td>Wall switch vacancy or occupancy sensor</td>
</tr>
<tr>
<td></td>
<td>Dimming wall switch vacancy sensor or occupancy sensor</td>
</tr>
<tr>
<td>Closet</td>
<td>Seven-button preset time switch</td>
</tr>
</tbody>
</table>
Design guidelines for residential sensors and time switches

Identify special features/functions for each space.

The feature matrix below identifies the range of features and functions available in Watt Stopper/Legrand residential wall switch sensors and time switches, and the specific benefits associated with them. Thinking about how the space will be used and what functionality is desired can help contractors and homeowners select the ideal control for each space.

Select the product.

Once you’ve identified the strategy and features, use the product matrix on pages 18-19 to select the specific models best suited for each application.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-ON Operation</td>
<td>Enables hands-free entry and exit from room</td>
</tr>
<tr>
<td>Fixed Settings and Manual ON</td>
<td>Simplifies installation and setup; California Title 24 Compliant</td>
</tr>
<tr>
<td>Light Level Sensing</td>
<td>Increases energy savings in areas with abundant natural light</td>
</tr>
<tr>
<td>Dimming</td>
<td>Combines present dimming and automatic shutoff for ambience and energy savings</td>
</tr>
<tr>
<td>Lighted Switch</td>
<td>Allows easy switch location in darkened room</td>
</tr>
<tr>
<td>Nightlight</td>
<td>Provides easy nighttime navigation</td>
</tr>
<tr>
<td>Multiway Operation</td>
<td>Provides convenient control from any entrance in a multiple entrance space</td>
</tr>
<tr>
<td>Dual Relays</td>
<td>Enables control of two loads simultaneously, such as lights and exhaust fans</td>
</tr>
<tr>
<td>Alerts</td>
<td>Affords timely visual or audible warning to occupant of impending shutoff</td>
</tr>
<tr>
<td>Tamper-resistant Lens</td>
<td>Prevents damage from prying fingers</td>
</tr>
<tr>
<td>Color-coordinated Lens and Device</td>
<td>Provides clean, attractive appearance</td>
</tr>
</tbody>
</table>
Evaluate installation considerations.

Wiring
When installing Watt Stopper/Legrand residential wall switch sensors and time switches, keep in mind that most models require a neutral. Only the RS-100BA and RS-100U do not require neutrals.

Minimum Load
A few of the models have a minimum load requirement. This means that the switch cannot be used to control a lamp with wattage lower than that specified.

Maximum Load
All of our models have a maximum load requirement. This means that the sensor or time switch cannot be used to control wattage in excess of that limit. For all -100 models, this is 500 watts. For all other models, this is 600 watts.

Load Type
The -100 sensor models only control incandescent lamps. All other sensor and time switches can control most standard lamp types, including incandescent, fluorescent, compact fluorescent (CFL), magnetic low voltage (MLV), electronic low voltage (ELV) and motors up to 1/6 hp.

Coverage Area
The wall switch sensors offer a maximum coverage range of 180 degrees and a coverage area of 600 square feet (56 square meters). The sensor needs a clear and unobstructed view of the coverage area. It is important to remember that windows, glass doors and other transparent barriers will obstruct the sensor’s view and prevent detection, causing the light to turn off even though someone is in the area.

Tip!
Use a model with a fixed 30-minute time delay, or lengthen the time delay on models with adjustable parameters, when using wall switch sensors in bathroom settings.
Design guidelines for residential time switches and sensors

**Step 5** Set up, program and adjust wall switch sensors and time switches

**Setting Adjustable Time Delays**

One of the most important adjustments with a wall switch sensor is the length of the time delay. A shorter interval results in greater energy savings but may also turn lighting off when a room is still occupied or while the sensor’s line of sight is temporarily obstructed.

The following table suggests average time delays for specific residential spaces based on the types of activity usually taking place and the length an occupant stays in the space. Generally speaking, the longer the duration of the stay and the lack of motion involved, the longer the time delay.

<table>
<thead>
<tr>
<th>Room</th>
<th>Duration of Stay</th>
<th>Length of Time Delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hallway</td>
<td>less than 5 minutes</td>
<td>5 minutes</td>
</tr>
<tr>
<td>Master Bedroom</td>
<td>15 minutes - 8 hours</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Child’s Bedroom</td>
<td>15 minutes - 8 hours</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Jack &amp; Jill Bathroom</td>
<td>5-30 minutes</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Master Bathroom</td>
<td>5-30 minutes</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Dining Room</td>
<td>1-3 hours</td>
<td>20-30 minutes</td>
</tr>
<tr>
<td>Powder Room</td>
<td>5-30 minutes</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Laundry Room</td>
<td>less than 30 minutes</td>
<td>15-20 minutes</td>
</tr>
<tr>
<td>Garage</td>
<td>less than 10 minutes</td>
<td>5 minutes</td>
</tr>
<tr>
<td>Pantry</td>
<td>less than 10 minutes</td>
<td>5 minutes</td>
</tr>
<tr>
<td>Living Room</td>
<td>1-3 hours</td>
<td>15-20 minutes</td>
</tr>
<tr>
<td>Family/Great Room</td>
<td>1-3 hours</td>
<td>20-30 minutes</td>
</tr>
</tbody>
</table>
Watt Stopper/Legrand’s new line of residential wall switch sensors and time switches makes sense for any home:

- superior performance, support and service from a long-time leader in lighting controls

- multiple choices for many applications throughout any home

- code-compliant home lighting controls to facilitate more flexibility in lighting design

- energy savings and lower energy consumption for homeowners

- attractive low profile styling with color-matched lens and device available in three colors

Convenient control for every room in the home
# Product Matrix

## Wall Switch Vacancy Sensors

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Application-Specific Vacancy Sensor</th>
<th>Application-Specific Vacancy Sensor</th>
<th>Application-Specific Vacancy Sensor</th>
<th>Universal Application Vacancy Sensor</th>
<th>Universal Application Vacancy Sensor</th>
<th>Universal Application Vacancy Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>sensor for single-pole circuits</td>
<td>sensor for single-pole circuits</td>
<td>sensor for single-pole circuits w/ nightlight</td>
<td>sensor for single-pole circuits w/ nightlight</td>
<td>sensor with dual relays</td>
<td>sensor with dual relays and nightlight</td>
<td></td>
</tr>
</tbody>
</table>

## Ordering Information

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Load Size</th>
<th>Load Type</th>
<th>Coverage</th>
<th>Neutral required:</th>
<th>Voltage: 120VAC; 60 Hz</th>
<th>Control Type</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-100BA</td>
<td>25-500W</td>
<td>Incandescent</td>
<td>180°, 600 ft</td>
<td></td>
<td></td>
<td>Vacancy</td>
<td>Fixed 30-minute time delay</td>
</tr>
<tr>
<td>RS-150BA</td>
<td>0-600W</td>
<td>Fluorescent</td>
<td></td>
<td></td>
<td></td>
<td>Occupancy</td>
<td>Fixed 5-minute time delay</td>
</tr>
<tr>
<td>RS-150BA-N</td>
<td>0-600W</td>
<td>CFL</td>
<td></td>
<td></td>
<td></td>
<td>Time</td>
<td>Adjustable time delay</td>
</tr>
<tr>
<td>RS-250</td>
<td>0-600W</td>
<td>MLV</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Nightlight</td>
</tr>
<tr>
<td>RS-250-N</td>
<td>0-600W</td>
<td>ELV</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lighted Switch</td>
</tr>
<tr>
<td>RS-350</td>
<td>0-600W</td>
<td>1/6 hp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Light level sensing</td>
</tr>
<tr>
<td>RS-350-N</td>
<td>0-600W</td>
<td>Voltage: 120VAC; 60 Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Automatic ON operation</td>
</tr>
</tbody>
</table>

## Product Description:

- **Applications**:
  - Single-pole circuits
  - Single-pole circuits with nightlight
  - Dual relays
  - Dual relays and nightlight

## Ordering Information:

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Load Size</th>
<th>Load Type</th>
<th>Coverage</th>
<th>Neutral required:</th>
<th>Voltage: 120VAC; 60 Hz</th>
<th>Control Type</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-100BA</td>
<td>25-500W</td>
<td>Incandescent</td>
<td>180°, 600 ft</td>
<td></td>
<td></td>
<td>Vacancy</td>
<td>Fixed 30-minute time delay</td>
</tr>
<tr>
<td>RS-150BA</td>
<td>0-600W</td>
<td>Fluorescent</td>
<td></td>
<td></td>
<td></td>
<td>Occupancy</td>
<td>Fixed 5-minute time delay</td>
</tr>
<tr>
<td>RS-150BA-N</td>
<td>0-600W</td>
<td>CFL</td>
<td></td>
<td></td>
<td></td>
<td>Time</td>
<td>Adjustable time delay</td>
</tr>
<tr>
<td>RS-250</td>
<td>0-600W</td>
<td>MLV</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Nightlight</td>
</tr>
<tr>
<td>RS-250-N</td>
<td>0-600W</td>
<td>ELV</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lighted Switch</td>
</tr>
<tr>
<td>RS-350</td>
<td>0-600W</td>
<td>1/6 hp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Light level sensing</td>
</tr>
<tr>
<td>RS-350-N</td>
<td>0-600W</td>
<td>Voltage: 120VAC; 60 Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Automatic ON operation</td>
</tr>
</tbody>
</table>

## Features:

- **Fixed 30-minute time delay**
- **Fixed 5-minute time delay**
- **Adjustable time delay**
- **Nightlight**
- **Lighted Switch**
- **Light level sensing**
- **Automatic ON operation**
- **Manual ON operation**
- **Adjustable Manual ON**
- **Auto ON operation**
- **Zero crossing**
- **Low-profile styling**
- **Color-matched lens and device**
- **ON/OFF Button**
<table>
<thead>
<tr>
<th>Multiway Vacancy Sensor</th>
<th>Decorator Single Pole Momentary Switch</th>
<th>Dimming Wall Switch Vacancy Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>sensor with multiway operation</td>
<td>momentary switch for use with RH-250 multiway vacancy sensor</td>
<td>sensor with preset dimming control</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wall Switch Occupancy Sensors</th>
<th>Time Switches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application-Specific Occupancy Sensor</td>
<td>Seven-Button Preset Time Switch</td>
</tr>
<tr>
<td>Application-Specific Occupancy Sensor</td>
<td>Programmable Time Switch</td>
</tr>
<tr>
<td>sensor for single-pole circuits</td>
<td>sensor for single-pole circuits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RH-250</th>
<th>RH-253</th>
<th>RD-200</th>
<th>RS-100U</th>
<th>RS-150U</th>
<th>RT-50</th>
<th>RT-100</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-600W</td>
<td>0-600W</td>
<td>25-500W</td>
<td>25-500W</td>
<td>0-600W</td>
<td>0-600W</td>
<td>0-600W</td>
</tr>
</tbody>
</table>

www.wattstopper.com 800.879.8585
RS Series Passive Infrared (PIR) Application-Specific Wall Switch Vacancy Sensors

Product Overview

Watt Stopper/Legrand’s RS Series PIR Application-Specific Wall Switch Vacancy Sensors provide occupancy-based automatic lighting shutoff for the home. They are designed to easily replace standard wall switches, and are engineered to comply with California’s rigorous Title 24-2005 residential energy code.

Operation

RS Series Application-Specific Vacancy Sensors use advanced PIR technology to sense the difference between infrared energy from a person in motion and the background space. The sensors automatically turn lights off after a space becomes vacant and a preset time delay elapses. RS Series Vacancy Sensors provide manual-on operation, allowing users to manually turn lights on or off at any time by operating the on/off button.

Features

- Replaces a standard light or fan single-pole switch
- No leakage to load in off mode for safety
- Low-profile styling with uniform color-matched lens and device
- Manual-on operation
- Fixed 30-minute time delay; no adjustment necessary

Optional Nightlight

The RS-150BA-N incorporates a nightlight that illuminates whenever lights are off. The nightlight uses LED technology that consumes only a marginal amount of energy when lit.

Applications

RS Series Application-Specific Vacancy Sensors require no adjustment to operate in the particular application for which they are designed. They are ideal for bathroom and bedroom applications, with an optional nightlight-equipped model, RS-150BA-N, for areas that receive nighttime traffic.

The sensors are quick and easy to install, and are compliant with California Title 24-2005. They will help homeowners reduce energy consumption and lower their utility bills.
Wiring without Neutral

Wiring for the RS-100BA does not require a neutral.

Wiring with Neutral

Wiring for the RS-150BA and RS-150BA-N models requires a neutral.

Specifications

- 120 VAC, 60 Hz
- Load requirements: RS-100BA, 25-500W incandescent; RS-150BA and RS-150BA-N, 0-600W incandescent, fluorescent, compact fluorescent (CFL), magnetic low voltage (MLV) and electronic low voltage (ELV), 1/6 hp
- Neutral required (RS-150BA & RS-150BA-N)
- Coverage: 180°, max. 600 ft² (56m²)
- 2.63” x 1.69” x 1.88” (67.8mm x 42.9mm x 47.8mm) L x W x D
- Operating conditions: 32°-131°F [0°-55°C], 95% RH, noncondensing
- UL and CUL listed; five-year warranty

Installation & Wiring

Controls & Coverage

Controls

Coverage

Ordering Information

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Color</th>
<th>Special Features</th>
<th>Voltage</th>
<th>Load Requirement</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-100BA-W</td>
<td>White</td>
<td></td>
<td>120 VAC</td>
<td>25-500W incandescent</td>
<td>180°, max.600 ft² (56m²)</td>
</tr>
<tr>
<td>RS-100BA-I</td>
<td>Ivory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RS-100BA-LA</td>
<td>Lt. Almond</td>
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<tr>
<td>RS-100BA-B</td>
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<tr>
<td>RS-150BA-W</td>
<td>White</td>
<td></td>
<td>120 VAC</td>
<td>0-600W incandescent, fluorescent, CFL, MLV and ELV, 1/6 hp</td>
<td>180°, max.600 ft² (56m²)</td>
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<tr>
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</table>

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.
RS Series Passive Infrared (PIR) Universal Application Wall Switch Vacancy Sensors

Product Overview
RS Series PIR Universal Application Wall Switch Vacancy Sensors replace standard wall switches. A variety of models provide different features to offer convenient, cost-effective energy savings throughout the home.

Operation
RS Series Universal Application Vacancy Sensors use PIR technology to sense the difference between infrared energy from a person in motion and the background space to detect when a space becomes vacant. They operate as vacancy sensors when utilizing the preset factory setting for manual-on operation. When programmed for automatic-on operation, they operate as occupancy sensors.

A setup button and two adjustment trimpots are conveniently located behind the on/off button and allow for a variety of additional control options such as manual or automatic-on, time delay and light level sensing.

Features
- Replaces standard light or fan single pole switch (RS-250 and RS-250-N)
- No leakage to load in off mode for safety
- Low-profile styling with uniform color-matched lens and device in four decorator colors
- Manual- or automatic-on operation
- Adjustable time delay 15 seconds to 30 minutes
- Lighted switch for visibility in darkened rooms
- California Title 24 compliant

Optional Dual Relay Model
The RS-350 and RS-350-N include dual relays for control of two different loads from a single location. Each pushbutton offers manual on/off control. Each relay offers independently selectable manual-on or automatic-on operation. The light level sensing capability is available on the first relay only.

Applications
RS Universal Application Sensors can be used in every room in a residence. Homeowners can select appropriate on/off mode, time delay and light level settings to maximize potential energy savings without compromising comfort or convenience.

- Works with most common residential lighting types
- Light level sensing prevents automatic-on of lights when adequate daylight exists
- Contains two relays to control two independent lighting loads or circuits; primary relay can be controlled by daylight, whereas secondary relay is isolated (RS-350 and RS-350-N)
- Amber LED nightlight illuminates whenever overhead lights are off (RS-250-N/RS-350-N)
Specifications

- 120 VAC, 60 Hz
- Load requirements: 0-600W incandescent, fluorescent, compact fluorescent (CFL), magnetic low voltage (MLV), electronic low voltage (ELV), and 1/6 hp
- Neutral required
- Coverage: 180°, max.600 ft² (56m²)

Installation & Wiring

Wiring for RS-350 and RS-350-N

Controls & Coverage

RS-250 & RS-250-N Controls

Coverage

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

Ordering Information

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Color</th>
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<th>Voltage</th>
<th>Load Requirement</th>
<th>Coverage</th>
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<td>0-600W incandescent, fluorescent, CFL, MLV, ELV, 1/6 hp</td>
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<td>RS-250-LA</td>
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<tr>
<td>RS-250-N-W</td>
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<td>Nightlight</td>
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<tr>
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<td>Dual Relay with Nightlight</td>
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<td>RS-350-N-B</td>
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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.
RH-250 PIR Multiway Wall Switch Vacancy Sensor & RH-253 Decorator Single Pole Momentary Switch

Product Overview

Description
The RH-250 Passive Infrared (PIR) Multiway Vacancy Sensor provides occupancy-based automatic lighting shutoff for applications in the home requiring multiple switch locations.

Operation
The RH-250 employs 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 set to operate in manual-on mode (the factory setting) users must press the pushbutton to turn on lighting. This setting may be changed to automatic-on if desired.

Multiway Operation
An RH-250 connected to other RH-250s and/or RH-253 Decorator Single Pole Momentary Switches provides true multiway on/off control. With the RH-250(s) in manual-on mode, an occupant entering the controlled area must press the on/off pushbutton of any connected switch to turn the lighting on. In automatic-on mode, any occupancy detection by the RH-250(s) will automatically turn the lights on. Connected RH-250s can be set for different operating modes. Lights will remain on as long as one of the RH-250s continues to detect occupancy. Regardless of operating mode, the user may turn the lighting off by pressing a connected RH-250/RH-253 on/off button. If the room becomes vacant and lights are left on, the last RH-250 to detect occupancy dictates when the lights will turn off after the selected time delay has elapsed. RH-253s do not detect occupancy, but provide an additional means for switching the controlled lighting.

Applications
The RH-250 is ideal for large rooms and areas with multiple entrances, as each sensor expands the coverage area. RH-253 switches provide economical multiway control and should be used where additional coverage is not needed, such as in a Jack and Jill bathroom. Up to three RH-250s and three RH-253s may be connected together.

Features
- Replaces three-way or four-way switches when used with other RH-250s or RH-253s
- Two or more RH-250s connected together provide enhanced coverage of the controlled space
- Low-profile styling
- Choice of four decorator colors; lens is color matched to device
- Includes matching single-gang wall plate

Ideal for stairways, hallways, large spaces and bathrooms with multiple entrances

Compliant with California Title 24-2005

Adjustable time delay and light level sensing

Lighted pushbutton for visibility in darkened rooms

Applications
- Manual-on or automatic-on operation
- Operates most common types of residential lighting
- Relay-based switching
- No current leakage to load in off mode for safety
- Adjustable time delay 15 seconds to 30 minutes
- If enabled, light level sensing prevents automatic-on when adequate daylight is available
Specifications

- 120 VAC, 60 Hz
- Coverage: 180°, 600 ft² (56 m²)
- Operates incandescent, fluorescent, compact fluorescent (CFL), magnetic low voltage (MLV), electronic low voltage (ELV), and 1/6 hp loads
- Adjustable time delay of 15 seconds, or of five, 15 or 30 minutes
- Adjustable light level setting of 10 to 150 fc (100 to 1500 lux) for daylight sensing
- 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, noncondensing
- UL and CUL listed; five-year warranty

Wiring Diagrams

Three-way Operation with Two RH-250s

Multiway Operation with RH-253s

Applications

Bedroom, Jack & Jill Bathroom, and Stairway Applications

Controls & Coverage

Product Controls

Coverage Pattern

Ordering Information

<table>
<thead>
<tr>
<th>Catalog No.</th>
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<th>Description</th>
<th>Voltage</th>
<th>Rating</th>
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<td>PIR Multiway Wall Switch Vacancy Sensor</td>
<td>120 VAC</td>
<td>0-600W incandescent, fluorescent, CFL, MLV, ELV lighting load or 1/6 hp motor load</td>
<td>180°, max. 600 ft² (56 m²)</td>
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<tr>
<td>RH-250-I</td>
<td>Ivory</td>
<td></td>
<td></td>
<td>N/A</td>
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<tr>
<td>RH-250-LA</td>
<td>Light Almond</td>
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<tr>
<td>RH-250-W</td>
<td>White</td>
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<tr>
<td>RH-253-B</td>
<td>Black</td>
<td>Decorator Single Pole Momentary Switch</td>
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<tr>
<td>RH-253-W</td>
<td>White</td>
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</table>

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

**Product Overview**

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.

**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

**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. When used in place of a standard switch, dimmer or occupancy sensor, its unique combination of dimming capability with occupancy sensing control will help homeowners maximize energy savings. The RD-200 lets homeowners enjoy enhanced comfort and convenience by providing the most pleasing light level for a given task.

**Compliant with**

California Title 24-2005

Lighted pushbutton for visibility in darkened rooms
Specifications

- 120 VAC, 60 Hz
- Coverage: 180°, max. 600 ft² (56 m²)
- 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

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<th>Catalog No.</th>
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<th>Voltage</th>
<th>Rating</th>
<th>Coverage</th>
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<td>Dimming sensor</td>
<td>120 VAC, 60 Hz</td>
<td>25-500W Incandescent lighting load</td>
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<tr>
<td>RD-200-LA</td>
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<td>RD-200-W</td>
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</table>

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.
RS Series Passive Infrared (PIR) Application-Specific Wall Switch Occupancy Sensors

**Product Overview**

**Description**
Watt Stopper/Legrand’s RS Series PIR Application-Specific Wall Switch Occupancy Sensors replace standard wall switches throughout the home to automatically turn lights on when occupancy is detected. The sensors are engineered to perform without the need for adjustment when used in recommended applications.

**Operation**
RS Series Application-Specific Wall Switch Occupancy Sensors use advanced PIR technology to detect occupancy and turn lights on. Once a space is vacated and the five-minute time delay elapses, lights automatically turn off. Users may turn lights on or off manually at any time by pressing the on/off button. When lights are off, the on/off button of RS Series Sensors is illuminated. While lights are on, RS Series Sensors are not illuminated.

**Features**
- Replaces standard light or fan single-pole switches
- Automatic-on operation
- Lighted switch for visibility in darkened rooms
- Fixed five-minute time delay
- Low-profile styling with uniform, color-matched lens and device
- With the RS-150U option, no leakage to load in off mode for safety
- Models available with or without neutral connection
- Choice of four decorator colors
- Works with most common residential lighting types

**Low-profile Styling**
The RS Series Application-Specific Wall Switch Occupancy Sensors feature a low-profile decorator design for a sleek appearance in any application. The lens and device is uniform and color matched for an unobtrusive appearance.

**Applications**
With a fixed five-minute time delay, RS Series Application Specific Wall Switch Occupancy Sensors are suitable for use in closets and small storage/utility rooms throughout the home.

---

**PROJECT**

**LOCATION/TYP**
Specifications

- 120 VAC, 60 Hz
- Load requirements: RS-100U, 25-500W incandescent; RS-150U, 0-600W incandescent, fluorescent, compact fluorescent (CFL), magnetic low voltage (MLV), electronic low voltage (ELV), and 1/6 hp loads
- Neutral required (RS-150U)
- Coverage: 180°, max. 600 ft² (56m²)
- 2.63" x 1.69" x 1.88" (67.8mm x 42.9mm x 47.8mm) L x W x D
- UL and CUL listed; five-year warranty

Installation & Wiring

### Wiring Without Neutral

Wiring for the RS-100U does not require a neutral.

### Wiring With Neutral

Wiring for the RS-150U requires a neutral.

Controls & Coverage

#### Controls

![Lighted on/off button]

#### Coverage

![Coverage diagram]

Ordering Information

<table>
<thead>
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<th>Color</th>
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<th>Load Requirement</th>
<th>Coverage</th>
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<td>120 VAC, 60 Hz</td>
<td>25-500W incandescent</td>
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<td>RS-100U-I</td>
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<td></td>
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<td>RS-100U-B</td>
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</table>

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.
RT Series Time Switches

Replaces a standard light or fan single-pole switch
Works with most common residential lighting types
Ideal for closet, pantry, garage, laundry room, outdoor lighting and spa

Product Overview

**Description**
Watt Stopper/Legrand’s digital RT Series Time Switches replace standard single-pole wall switches for energy savings throughout the home. The RT-50 and RT-100 Time Switches turn controlled lights or fans off when the selected time expires.

**Operation: RT-100**
Turning lights on with the RT-100 is accomplished by pressing the on/off button, which activates the time function programmed by the installer. If users want the lights to remain on for a different time interval, they simply press and hold the on/off button until the display shows the desired time. When the button is released, the lights will remain on for the newly selected time interval. To turn lights off immediately, simply press the on/off button. At any time, a user may press and hold the on/off button for one second to restart the time switch, which will default to the interval programmed by the installer.

**Features**
- Programmable Countdown Time Switch
- Adjustable time delay from 5-55 minutes (5-minute increments) to 1-12 hours (15-minute increments)
- Audible beep and visible light flash warnings before automatic off
- Lighted switch for visibility in darkened rooms
- Choice of four decorator colors

**Operation: RT-50**
Turning lights on with the RT-50 is accomplished by pressing the desired time selection or on/off button. Lights will remain on for the duration of the time-out setting that was last used and turn on the indicator light for that active time interval. Lights can be turned off before the time-out setting expires by pressing the on/off button. To change the time-out setting, press the desired time selection button and the RT-50 will reset to that countdown interval.

**Applications**
Digital time switches are an ideal lighting control choice for areas in the home where a wall switch vacancy or occupancy sensor may be inappropriate. The RT-50 Seven-button Preset Time Switch is suitable for small lights inside closets or bathroom exhaust fans. The RT-100 Programmable Countdown Time Switch is well suited for applications such as pantry, garage, outdoor lighting and spa where users will benefit from real time feedback of remaining countdown time as well as audible and visible warnings of impending shutoff.

RT-50:
- Seven-button Preset Time Switch
- Adjustable time delay: 1, 5, 10, 20, 30, 60 minutes
- Lighted switch for visibility in darkened rooms
- Choice of four decorator colors

Digital time switches are an ideal lighting control choice for areas in the home where a wall switch vacancy or occupancy sensor may be inappropriate. The RT-50 Seven-button Preset Time Switch is suitable for small lights inside closets or bathroom exhaust fans. The RT-100 Programmable Countdown Time Switch is well suited for applications such as pantry, garage, outdoor lighting and spa where users will benefit from real time feedback of remaining countdown time as well as audible and visible warnings of impending shutoff.

RT-50:
- Seven-button Preset Time Switch
- Adjustable time delay: 1, 5, 10, 20, 30, 60 minutes
- Lighted switch for visibility in darkened rooms
- Choice of four decorator colors

www.wattstopper.com
800.879.8585
Specifications

- 120 VAC, 60 Hz
- Load requirements: 0-600W incandescent, fluorescent, compact fluorescent (CFL), magnetic low voltage (MLV), electronic low voltage (ELV), and 1/6 hp
- Neutral required

Installation & Wiring

Wiring for RT-100

Wiring for RT-50

Controls

RT-100 Controls

RT-50 Controls

Ordering Information

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<th>Special Feature</th>
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<td>White</td>
<td>Programmable Countdown Time Switch</td>
<td>120 VAC; 60 Hz</td>
<td>0–600W incandescent, fluorescent, CFL, MLV, ELV, 1/6hp</td>
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<td>Ivory</td>
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<td>RT-100-LA</td>
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<td>RT-100-B</td>
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<td>Seven-button Preset Time Switch</td>
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</tbody>
</table>

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.
Watt Stopper/Legrand Resources & Tools

**CAD Resource Center**
- Over 300 CAD drawings from which to choose
- Wiring diagrams you can place in your own CAD drawings
- Available at www.wattstopper.com

**Support & Services**
- Commission and start-up services
- District managers, trained representatives and experts available to answer all technical questions

**Continuing Education**
- Courses throughout North America qualify for AIA/CES Health, Safety and Welfare (HSW) credit and NCQLP Lighting Education Units (LEUs)
- In-person and on-line events
- Course selection available at www.wattstopper.com

**Product Selection Guide**
- Compilation of product ordering information, cut sheets, design and application assistance

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