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› WattStopper PW-100-R PIR Occupancy Sensor Wall-Switch Instruction Manual

Watt Stopper PW-100-R

WattStopper PW-100-R PIR Occupancy Sensor Wall-Switch

INSTRUCTION MANUAL

1. Introduction

The WattStopper PW-100-R is a Passive Infrared (PIR) Occupancy Sensor Wall-Switch designed for automatic lighting control. This device detects motion within its coverage area to automatically turn lights ON and OFF, providing convenience and energy savings. It features a single button for manual ON/OFF control and is suitable for various indoor applications.

2. Safety Information

WARNING: Risk of electric shock. Improper installation can lead to serious injury or death. Always disconnect power at the circuit breaker or fuse before installing or servicing this device. Installation should be performed by a qualified electrician in accordance with all national and local electrical codes.

- For indoor use only.
- Do not install in wet or damp locations.
- Ensure all wiring connections are secure.
- Operating voltage: 120/277VAC, 50/60Hz.

3. Setup and Installation

Follow these steps for proper installation of your PW-100-R occupancy sensor.

3.1 Pre-Installation

1. Turn OFF power to the circuit at the service panel before beginning installation.
2. Remove the existing wall switch from the wall box.
3. Identify the Line (hot), Load, and Ground wires. A Neutral wire may also be present.

3.2 Wiring

Connect the wires from the wall box to the sensor's terminals as follows:

- **Black Wire:** Connect to the Line (hot) wire from the electrical box.
- **Red Wire:** Connect to the Load wire (to the light fixture).
- **Green Wire:** Connect to the Ground wire from the electrical box.
- **Yellow Wire:** This wire is typically for specific control applications or 3-way wiring. Refer to specific wiring diagrams if using in a multi-location setup. For single-pole applications, cap off the yellow wire if not used.

Ensure all connections are tight and secure. Use wire nuts as appropriate.



Rear view of the WattStopper PW-100-R PIR Occupancy Sensor Wall-Switch, showing wiring terminals and product label with specifications. The label indicates model PW-100, PIR Wall Switch Occupancy Sensor, 120/277VAC, 50/60Hz, with relay output ratings of 800W max at 120VAC and 1200W max at 277VAC for ballast/tungsten loads. It also states 'INDOOR USE ONLY' and provides contact information for Watt Stopper.

3.3 Mounting

1. Carefully push the wired sensor into the wall box.
2. Secure the sensor to the wall box using the provided mounting screws.
3. Install the wall plate (not included) over the sensor.

3.4 Power On

Restore power to the circuit at the service panel. The sensor will undergo a brief warm-up period before becoming fully operational.

4. Operating Instructions

The PW-100-R operates based on passive infrared technology, detecting heat signatures and motion within its field of view.

- **Automatic Operation:** When motion is detected, the sensor will automatically turn ON the connected lights. After a period of no motion, the lights will automatically turn OFF.
- **Manual ON/OFF:** The single button on the front of the switch allows for manual control. Press the button to manually turn the lights ON or OFF, overriding the automatic sensor function temporarily.

5. Maintenance

The WattStopper PW-100-R requires minimal maintenance.

- **Cleaning:** Periodically wipe the sensor lens with a soft, dry cloth to remove dust or dirt that may obstruct its view. Do not use abrasive cleaners or solvents.
- **Inspection:** Occasionally check the device for any visible damage or loose connections. If any issues are found, disconnect power and consult a qualified electrician.

6. Troubleshooting

If the PW-100-R is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Lights do not turn ON automatically.	No power to the sensor; incorrect wiring; sensor lens obstructed; sensor in manual OFF mode.	Check circuit breaker; verify wiring connections; clean sensor lens; press button to ensure it's not manually OFF.
Lights do not turn OFF automatically.	Constant motion in detection area; incorrect wiring; sensor malfunction.	Ensure no continuous motion; verify wiring; if problem persists, contact support.
Lights flicker or do not operate correctly.	Loose wiring connection; incompatible load type; faulty bulb/fixture.	Check all wiring connections; ensure load is within specified wattage; test with a different bulb/fixture.

If troubleshooting steps do not resolve the issue, contact Watt Stopper customer support.

7. Specifications

Feature	Detail
Model Number	PW-100-R
Sensor Type	Passive Infrared (PIR)

Feature	Detail
Operation Mode	ON-OFF, Automatic with Manual Override
Operating Voltage	120/277VAC, 50/60Hz
Relay Output (120VAC)	800W max. (Tungsten/Ballast), 1/6 hp
Relay Output (277VAC)	1200W max. (Ballast)
Control Type	Single Button (Push Button Actuator)
Mounting Type	Wall Mount
Connectivity Protocol	Infrared
Dimensions (L x W x H)	5 x 3 x 3 inches
Item Weight	1 pound
Material	Metal (Contact Material)
Environment	Indoor Use Only
UPC	754182934409

8. Warranty and Support

For warranty information or technical support, please contact Watt Stopper directly.

- **Phone:** 800.879.8585
- **Website:** www.wattstopper.com