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Watt Stopper WS-301-W

Watt Stopper WS-301-W Occupancy Sensor User Manual

Model: WS-301-W | Brand: Watt Stopper

1. Introduction

This manual provides detailed instructions for the installation, setup, operation, and maintenance of the Watt Stopper WS-301-W Occupancy Sensor. This device is designed to automatically control lighting based on occupancy detection, enhancing energy efficiency and convenience in various indoor environments. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

WARNING: Risk of electric shock. Improper installation can lead to serious injury or death. Always turn off power at the circuit breaker before installing or servicing this device.

- Installation must be performed by a qualified electrician in accordance with all national and local electrical codes.
- Do not install if the product appears damaged.
- Ensure all wiring connections are secure and properly insulated.
- This device is intended for indoor use only.

3. Product Overview

The Watt Stopper WS-301-W is a passive infrared (PIR) occupancy sensor designed for wall-mount applications. It detects motion within a 180-degree field of view to automatically switch connected lighting loads on and off.

3.1 Key Features

- **Mounting:** Wall
- **Voltage:** 120, 277, 347 Volts AC
- **Color:** White
- **Detection Type:** 180 Degrees, Passive Infrared (PIR)
- **Optional Neutral Connection:** Features a break-off tab to expose neutral terminals for installations

requiring a neutral connection.

3.2 Package Contents

- Watt Stopper WS-301-W Occupancy Sensor
- Mounting Screws
- Wire Nuts
- Instruction Manual

3.3 Product Diagram

Figure 1: A front view of the Watt Stopper WS-301-W occupancy sensor, showing its white plastic housing, passive infrared lens, and mounting tabs. The sensor is designed for wall-mount installation.

4. Installation

Before beginning installation, ensure the power to the circuit is turned OFF at the circuit breaker. Follow all local and national electrical codes.

4.1 Wiring Instructions

1. Turn off power at the circuit breaker.
2. Remove the existing wall switch or cover plate.
3. Identify the Line (hot), Load, and Ground wires. If an optional neutral connection is required, identify the Neutral wire. The WS-301-W has a break-off tab to expose neutral terminals.
4. Connect the sensor wires to the building wires using appropriate wire nuts:
    - Connect the sensor's Line wire to the building's Line (hot) wire.
    - Connect the sensor's Load wire to the building's Load wire.
    - Connect the sensor's Ground wire to the building's Ground wire.
    - If using the optional neutral connection, connect the sensor's Neutral wire to the building's Neutral wire.
5. Ensure all connections are secure.

4.2 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 a standard decorator-style wall plate (not included) over the sensor.
4. Restore power at the circuit breaker.

5. Setup and Configuration

Upon initial power-up, the sensor will typically enter a calibration period. During this time, avoid motion in the detection area. The WS-301-W may include adjustable settings for time delay and sensitivity, which are usually accessible via small dials or buttons on the front face or behind the cover plate. Refer to the specific markings on your device for adjustment details.

6. Operating Instructions

The Watt Stopper WS-301-W operates by detecting infrared energy emitted by occupants. When motion is detected within its 180-degree field of view, the sensor will turn on the connected lighting. If no motion is detected for a preset time delay, the lighting will automatically turn off. Some models may feature a manual override button to temporarily turn lights on or off regardless of occupancy.

7. Maintenance

The WS-301-W occupancy sensor requires minimal maintenance. To ensure optimal performance:

- **Cleaning:** Periodically wipe the sensor lens with a soft, dry cloth to remove dust or debris. Do not use abrasive cleaners or solvents.
- **Obstructions:** Ensure that the sensor's field of view is not obstructed by furniture, decorations, or other objects that could block motion detection.
- **Power Cycle:** If the sensor appears to be malfunctioning, try turning off the power at the circuit breaker for 30 seconds and then restoring it.

8. Troubleshooting

If you experience issues with your WS-301-W sensor, consult the table below for common problems and solutions.

Problem	Possible Cause	Solution
Lights do not turn on with motion.	No power to sensor; incorrect wiring; sensor sensitivity too low; obstructed view.	Check circuit breaker; verify wiring connections; adjust sensitivity setting; clear obstructions from sensor's view.
Lights remain on.	Constant motion in detection area; time delay set too long; sensor malfunction.	Ensure no continuous motion; adjust time delay setting; power cycle the sensor.
Lights turn off too quickly.	Time delay set too short; sensor sensitivity too low.	Adjust time delay setting; increase sensitivity setting.

Problem	Possible Cause	Solution
Sensor does not detect motion reliably.	Sensor sensitivity too low; obstructed view; incorrect mounting height.	Increase sensitivity; clear obstructions; verify mounting height is within recommended range.

9. Specifications

Feature	Specification
Model	WS-301-W
Mounting Type	Wall Mount
Detection Angle	180 Degrees
Sensor Type	Passive Infrared (PIR)
Operating Voltage	120, 277, 347 VAC
Color	White
Power Source	Corded Electric
Package Dimensions	2 x 2 x 2 inches (approximate)
First Available Date	November 16, 2018

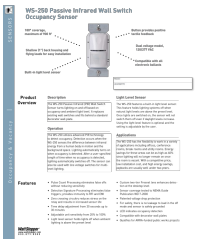
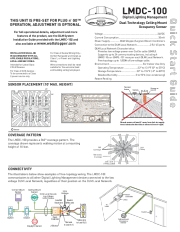
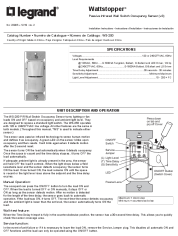
10. Warranty Information

Watt Stopper products are typically covered by a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please refer to the warranty card included with your product or visit the official Watt Stopper website for detailed warranty information and registration procedures. Keep your proof of purchase for warranty claims.

11. Customer Support

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Watt Stopper customer support. Contact information can typically be found on the product packaging or the official Watt Stopper website. When contacting support, please have your product model number (WS-301-W) and date of purchase readily available.

Related Documents - WS-301-W

	[Watt Stopper WS-250 Occupancy Sensor: Features, Specifications, and Applications] Detailed information on the Watt Stopper WS-250 Passive Infrared Wall Switch Occupancy Sensor, including its features, specifications, applications, and installation guidance for energy-efficient lighting control.
	[Wattstopper WS-250 Passive Infrared Wall Switch Occupancy Sensor] The Wattstopper WS-250 is a passive infrared wall switch occupancy sensor that turns lighting on and off based on occupancy and ambient light level. It replaces existing wall switches and offers features like adjustable time delay, sensitivity, and light level settings.
	[UW-100-24 Ultrasonic Low Voltage Wall Switch Occupancy Sensor Installation Instructions] Installation instructions and specifications for the Watt Stopper UW-100-24 Ultrasonic Low Voltage Wall Switch Occupancy Sensor. Covers unit description, operation, adjustments, troubleshooting, and ordering information.
	[Watt Stopper LMDC-100 Occupancy Sensor Quick Start Guide & Installation] Quick start guide for the Watt Stopper LMDC-100 Digital Lighting Management Dual Technology Ceiling Mount Occupancy Sensor. Includes installation, specifications, coverage, and troubleshooting.
	[WattStopper PW-301/PW-302 Passive Infrared Multi-Way Switch Occupancy Sensor Installation Instructions] Comprehensive installation guide for the WattStopper PW-301 and PW-302 Passive Infrared Multi-Way Switch Occupancy Sensors. Learn about features, specifications, wiring diagrams, operating modes, troubleshooting, and adjustments for optimal performance.
	[Wattstopper WS-250 Passive Infrared Wall Switch Occupancy Sensor Installation and Operation Guide] Comprehensive guide for installing, operating, and troubleshooting the Wattstopper WS-250 Passive Infrared Wall Switch Occupancy Sensor. Covers specifications, wiring, adjustments, and coverage patterns for efficient lighting control.

[pdf] User Manual

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