Sensor Switch WSXA-PDT-WH

Sensor Switch WSXA-PDT-WH Occupancy Motion Sensor Switch Instruction Manual

Model: WSXA-PDT-WH

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1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Sensor Switch WSXA-PDT-WH Occupancy Motion Sensor Switch. This device is designed to automatically control lighting based on occupancy detection, utilizing dual technology for enhanced reliability.

2. SAFETY INFORMATION

WARNING: RISK OF ELECTRIC SHOCK. Improper installation can lead to serious injury or death.

- Installation must be performed by a qualified electrician in accordance with all national and local electrical codes.
- Disconnect power at the circuit breaker or fuse before installing or servicing the switch.
- Do not install with wet hands or while standing on wet or damp surfaces.
- Ensure all wire connections are secure and properly insulated.
- This device is for indoor use only.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Sensor Switch WSXA-PDT-WH Occupancy Motion Sensor Switch (White)
- Mounting Screws
- Wire Nuts
- Instruction Manual (this document)

4. SETUP

4.1 Pre-Installation

1. **Turn off power:** Locate the circuit breaker or fuse box controlling the light switch you are replacing. Turn off the power completely. Verify power is off using a voltage tester.
2. **Remove existing switch:** Carefully remove the wall plate and unscrew the existing switch from the wall box. Disconnect the wires.

4.2 Wiring Instructions

The WSXA-PDT-WH switch requires specific wiring connections. Refer to the diagram below for typical wiring. If you are unsure, consult a qualified electrician.

Note: The WSXA-PDT-WH is designed for 120/277VAC applications.

- **Black Wire:** Connect to the incoming **Line (Hot)** wire.
- **Red Wire:** Connect to the **Load** wire (to the light fixture).
- **White Wire:** Connect to the **Neutral** wire.
- **Green Wire:** Connect to the **Ground** wire.

4.3 Mounting

1. After wiring, carefully push the switch into the wall box.
2. Secure the switch to the wall box using the provided mounting screws.
3. Attach the wall plate (not included) over the switch.

4.4 Initial Power-Up

1. Restore power at the circuit breaker.
2. The sensor will enter a warm-up period (typically 30-60 seconds) during which the lights may cycle on and off.
3. After the warm-up, the sensor will begin normal operation.

5. OPERATING INSTRUCTIONS

The WSXA-PDT-WH is a Dual-Tech occupancy sensor switch, combining Passive Infrared (PIR) and Ultrasonic technologies for reliable motion detection.

5.1 Automatic On/Off Operation

- When occupancy is detected, the switch will automatically turn on the connected lights.
- The lights will remain on as long as occupancy is detected.
- After the set time delay expires and no occupancy is detected, the lights will automatically turn off.

5.2 Manual Override

Most models include a push-button for manual control:

- **Press to turn ON/OFF:** A quick press of the button will toggle the lights on or off, overriding the sensor's automatic function temporarily.
- **Hold for specific functions:** Refer to the detailed programming guide for advanced settings accessible via button presses (e.g., adjusting time delay, sensitivity).

5.3 Adjusting Settings

The WSXA-PDT-WH typically features adjustable settings for optimal performance. These adjustments are usually made via small dials or dip switches located behind the wall plate or on the device itself.

- **Time Delay:** Controls how long the lights remain on after the last detected motion. Common settings range from 30 seconds to 30 minutes.
- **Sensitivity:** Adjusts the detection range for both PIR and Ultrasonic sensors. Higher sensitivity detects smaller movements or movements further away.
- **Ambient Light Sensor (ALS):** Prevents lights from turning on if there is sufficient natural light in the room. This can be enabled or disabled, and the light level threshold may be adjustable.

Consult the full programming guide for detailed instructions on accessing and adjusting these settings.

6. MAINTENANCE

The Sensor Switch WSXA-PDT-WH 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 detection area is not obstructed by furniture, curtains, or other objects that could block motion detection.
- **Power Cycling:** If the sensor appears to be malfunctioning, try turning off the power at the circuit breaker for 30 seconds, then restoring it. This can reset the device.

7. TROUBLESHOOTING

If you experience issues with your WSXA-PDT-WH sensor switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on.	No power; incorrect wiring; ambient light sensor active; sensor obstructed; bulb burned out.	Check circuit breaker; verify wiring; adjust ambient light sensor setting; clear obstructions; replace bulb.
Lights turn off too quickly.	Time delay set too short; insufficient motion detected; sensor obstructed.	Increase time delay setting; ensure clear line of sight for sensor; adjust sensitivity.
Lights do not turn off.	Constant motion detected; time delay set too long; faulty sensor.	Ensure no constant motion in detection area; reduce time delay setting; contact support if issue persists.
Lights flicker or cycle.	Loose wiring; incompatible load; electrical interference.	Check all wire connections; ensure load is within specifications; consult electrician.

If troubleshooting steps do not resolve the issue, contact Sensor Switch technical support.

8. SPECIFICATIONS

Feature	Detail

Feature	Detail
Model Number	WSXA-PDT-WH
Brand	Sensor Switch
Color	White
Power Source	Corded Electric
Voltage	120/277 Volts AC
Wattage	800-Watt (120V)
Mounting Type	Wall Mount
Technology	Dual Technology (PIR & Ultrasonic)
Product Dimensions	4.3 x 1.8 x 1.8 inches
Item Weight	5.5 ounces
Compatible Devices	Light, Fan, Smart Home Systems
UPC	194994625827

9. WARRANTY AND SUPPORT

Sensor Switch products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official Sensor Switch website.

For technical support, product inquiries, or warranty claims, please contact Sensor Switch customer service through their official channels. Have your model number (WSXA-PDT-WH) and purchase information ready when contacting support.