Defiant RS-2701-WH

Defiant 270 Degree Replacement Motion Sensor

Model: RS-2701-WH

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Defiant 270 Degree Replacement Motion Sensor. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Image: The Defiant 270 Degree Replacement Motion Sensor in white, featuring its adjustable arm and the sensor head with a textured lens for wide-angle detection. Electrical wires are visible at the top connection point.

PRODUCT FEATURES

- **270-Degree Coverage:** Equipped with three Passive Infrared (PIR) sensors for extensive motion detection.
- **Universal Bulb Compatibility:** Works with LED, CFL, halogen, and incandescent light bulbs.
- **Hi-Lo Feature:** Provides accent lighting at 30% brightness from dusk to dawn, or dusk until the middle of the night with a timer setting.
- **Adjustable Extension Arm:** Allows the sensor to extend below PAR 38 bulbs while maintaining 270-degree coverage, or can be retracted for a more compact appearance.
- **SMART Setting:** Learns user behaviors and adjusts settings automatically for optimized performance.
- **ECO Setting:** Minimizes energy consumption.
- **Mounting Versatility:** Designed for both eave and wall mounting.

INSTALLATION AND SETUP

Safety Precautions

- Always turn off power at the circuit breaker before beginning installation.
- Consult a qualified electrician if you are unsure about any part of the installation process.
- Ensure all wiring connections are secure and comply with local electrical codes.

Mounting Instructions

1. **Choose Location:** Select a suitable location for mounting, either on an eave or a wall, ensuring optimal coverage for the desired area.
2. **Prepare Wiring:** Route the electrical wires from the fixture to the sensor's connection points. The sensor is designed for corded electric power.
3. **Connect Wires:** Connect the sensor's wires to the fixture's wiring according to the provided wiring diagram (refer to the diagram usually included with the product packaging).
4. **Secure Sensor:** Securely attach the sensor to the mounting surface using appropriate hardware.
5. **Adjust Arm:** Adjust the extension arm as needed to position the sensor head for optimal detection, especially if using PAR 38 bulbs.

OPERATING INSTRUCTIONS

Initial Power-Up

After installation, restore power at the circuit breaker. The sensor may undergo a brief calibration period.

Setting Modes

- **SMART Setting:** Activates an adaptive mode where the sensor learns and adjusts its sensitivity and timing based on detected patterns.
- **ECO Setting:** Engages an energy-saving mode, optimizing power consumption while maintaining essential functionality.
- **Hi-Lo Feature:** Can be configured to provide low-level accent lighting during specific periods (dusk to dawn or timed). Refer to the product's physical controls or specific instructions for adjusting this feature.

Adjusting Sensitivity and Time

The sensor typically includes controls for adjusting motion sensitivity and the duration the light remains on after motion ceases. These controls are usually dials or switches located on the sensor body. Experiment with settings to find the optimal performance for your environment.

MAINTENANCE

- **Cleaning:** Periodically wipe the sensor lens with a soft, damp cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the sensor and its wiring for any signs of damage or wear.
- **Environmental Factors:** Ensure the sensor is not obstructed by growing foliage or new structures that could interfere with its detection range.

TROUBLESHOOTING

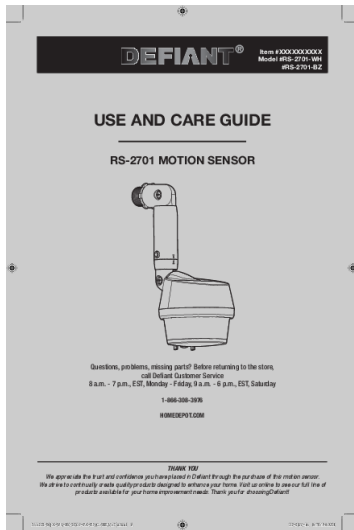| Problem	Possible Cause	Solution
Light does not turn on with motion.	No power to the sensor. Sensor sensitivity too low. Obstruction in detection path. Bulb is faulty.	Check circuit breaker and wiring connections. Increase sensor sensitivity setting. Clear any obstructions. Replace the light bulb.
Light stays on continuously.	Constant motion in detection zone. Sensor in test mode or faulty. Wiring error.	Adjust sensor angle or sensitivity to exclude unwanted motion sources. Check sensor mode settings. If problem persists, sensor may be faulty. Verify wiring connections.
Light turns on and off rapidly.	Interference from heat sources (e.g., vents, reflective surfaces). Sensor detecting minor environmental changes.	Relocate sensor or adjust its angle to avoid interference. Decrease sensitivity.

SPECIFICATIONS

- **Model Number:** RS-2701-WH

- **Coverage:** 270 Degrees

- **Power Source:** Corded Electric

- **Compatible Bulb Types:** LED, CFL, Halogen, Incandescent

- **Mounting Type:** Eave, Wall, or Pole Mount

- **Color:** White

- **Item Weight:** 10.5 ounces

- **Package Dimensions:** 7.32 x 3.98 x 3.46 inches

- **UPC:** 859655002828

- **First Available Date:** January 25, 2018

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or visit the official Defiant website. Keep your proof of purchase for warranty claims.

For further assistance, you may contact Defiant customer service. Contact details are typically available on the product packaging or the manufacturer's website.

Documents - Defiant – RS-2701-WH

[Defiant RS-2701 Motion Sensor Use and Care Guide](#)

A comprehensive guide for the Defiant RS-2701 Motion Sensor, detailing installation, operation, adjustment, care, and troubleshooting steps for optimal performance and security lighting.

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