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› [RAYZEEK](#) /

› RAYZEEK RZ036-10A Ceiling Mount PIR Occupancy Motion Sensor Instruction Manual

RAYZEEK RZ036-10A

RAYZEEK RZ036-10A Ceiling Mount PIR Occupancy Motion Sensor

Instruction Manual

1. INTRODUCTION

The RAYZEEK RZ036-10A is a ceiling-mounted 360-degree Passive Infrared (PIR) occupancy motion sensor designed for automatic lighting control. Utilizing advanced PIR and microcontroller technology, this sensor offers enhanced stability and reliability compared to traditional motion sensors. It is suitable for a wide range of applications, including commercial and residential spaces, to provide energy-efficient lighting by turning lights on when motion is detected and off after a set delay when no motion is present.

This manual provides detailed instructions for the safe installation, operation, and maintenance of your RAYZEEK RZ036-10A motion sensor.

2. PACKAGE CONTENTS

Please verify that all items are included in your package:

- 1 x RAYZEEK RZ036-10A Motion Sensor Switch
- 1 x User Instruction Manual (this document)
- 3 x Mounting Screws
- 3 x Wall Anchors
- 1 x Installation Positioning Sticker

3. SPECIFICATIONS

Brand	RAYZEEK
Model Number	RZ036-10A
Power Source	Hardwired (110-265V)
Maximum Load	2200W (10A)

Mounting Type	Ceiling Mount
Detection Angle	360 degrees
Maximum Range	8-12 Meters (26-39 ft)
Light Sensor (LUX)	Adjustable (Off, 15Lux, 25Lux, 35Lux)
Time Delay	Adjustable (15s, 30s, 1min, 3min, 5min, 10min, 30min)
Sensitivity	Adjustable (High/Low)
Dimensions (D x W x H)	3.94"D x 3.94"W x 1.61"H
Compatible Devices	LED light, compact fluorescent lamp, incandescent lamp, ceiling light, exhaust fan

4. SAFETY INFORMATION

WARNING: Risk of electric shock. Improper installation can lead to serious injury or death. Always consult a qualified electrician if you are unsure about any part of the installation process.

- **Turn off power:** Before installation, ensure power is OFF at the circuit breaker or fuse box to avoid electrical shock.
- **Neutral Wire Required:** This device requires a neutral wire for proper operation. Verify its presence before installation.
- **Indoor Use Only:** This sensor is designed for indoor use in dry locations. Do not expose to moisture or extreme temperatures.
- **Fire-Resistant Material:** The sensor is constructed from high-security fireproof material.

Your browser does not support the video tag.

Video: Fire Resistance Testing. This video demonstrates the fire-resistant properties of the RAYZEEK sensor compared to non-fire-resistant products.

5. INSTALLATION GUIDE

Follow these steps carefully to install your RAYZEEK RZ036-10A motion sensor.

5.1 Pre-Installation

1. **Turn off power:** Locate the circuit breaker controlling the light fixture where you intend to install the sensor and turn off the power. Verify power is off using a voltage tester.
2. **Identify Wires:** In your ceiling junction box, identify the Hot wire (Live), Load wire (to the light fixture), and Neutral wire. Colors may vary; use a non-contact voltage tester to confirm.



Image: Bottom view of the sensor with wiring terminals (L, L1, N) clearly marked.

5.2 Mounting

1. **Remove Cover:** Rotate the top cover of the sensor counter-clockwise to remove it.
2. **Positioning:** Use the provided positioning sticker to mark the drill holes on the ceiling.
3. **Drill Holes:** Drill holes at the marked positions and insert the wall anchors.
4. **Secure Base:** Align the sensor base with the drilled holes and secure it to the ceiling using the provided screws.

5.3 Wiring

Connect the wires from your ceiling junction box to the sensor terminals as follows:

- Connect the **Hot wire (Live)** to the 'L' terminal on the sensor.
- Connect the **Load wire (to the light fixture)** to the 'L1' terminal on the sensor.
- Connect the **Neutral wire** to the 'N' terminal on the sensor.

Your browser does not support the video tag.

Video: RAYZEEK Ceiling Motion Sensor Switch Installation. This video provides a visual guide for the wiring and mounting process.

5.4 Post-Installation Check

After wiring and mounting, ensure all connections are secure and the sensor is firmly attached to the ceiling. Replace the top cover by rotating it clockwise until it locks firmly.

6. OPERATION

6.1 Initial Power-On

After installation and restoring power, the motion sensor switch will take approximately 1 minute to initialize. During this time, the green indicator light on the sensor will turn on. The sensor is ready for use once initialization is complete.

6.2 Adjusting Settings

The RAYZEEK RZ036-10A features user-friendly button adjustments for Light Sensor (LUX), Time Delay, and Sensitivity. To access these settings, rotate the top cover counter-clockwise to remove it.

BUTTON DESIGN, LED INDICATOR MORE CONVENIENCE



Image: Detailed view of the sensor's adjustable settings for LUX, Time-Delay, and Sensitivity.

6.2.1 Light Sensor (LUX) Adjustment

The LUX setting determines the ambient light level at which the sensor will activate. If the ambient brightness is greater than the selected LUX value, the motion sensor will not detect motion and the light will not turn on, saving energy during daylight hours.

- **Options:** Off, 15 Lux, 25 Lux (Default), 35 Lux.
- **'Off' Setting:** The sensor will detect motion regardless of ambient light, turning on the light even in bright conditions.

6.2.2 Time Delay Adjustment

The Time Delay setting determines how long the light remains on after the last detected motion. The timer resets with each new motion detection.

- **Options:** 15 seconds, 30 seconds, 1 minute (Default), 3 minutes, 5 minutes, 10 minutes, 30 minutes.

6.2.3 Sensitivity Adjustment

The Sensitivity setting controls the range and responsiveness of motion detection.

- **Options:** High Sensitivity, Low Sensitivity.
- **High Sensitivity:** Detects smaller movements and covers a wider area.
- **Low Sensitivity:** Requires more significant movement or closer proximity for detection, useful in areas with potential false triggers.

After adjusting settings, replace the top cover by rotating it clockwise until it locks firmly.

7. APPLICATIONS

The RAYZEEK RZ036-10A motion sensor is versatile and can be used in various environments to enhance convenience and energy efficiency:

- **Warehouses & Storage Areas:** Automate lighting in aisles and storage rooms, ensuring lights are only on when needed.

- **Garages & Basements:** Provides hands-free lighting when entering or exiting, improving safety and convenience.
- **Offices & Hallways:** Reduces energy consumption in common areas by ensuring lights are off when unoccupied.
- **Laundry Rooms & Utility Rooms:** Eliminates the need to manually switch lights on/off, especially when hands are full.

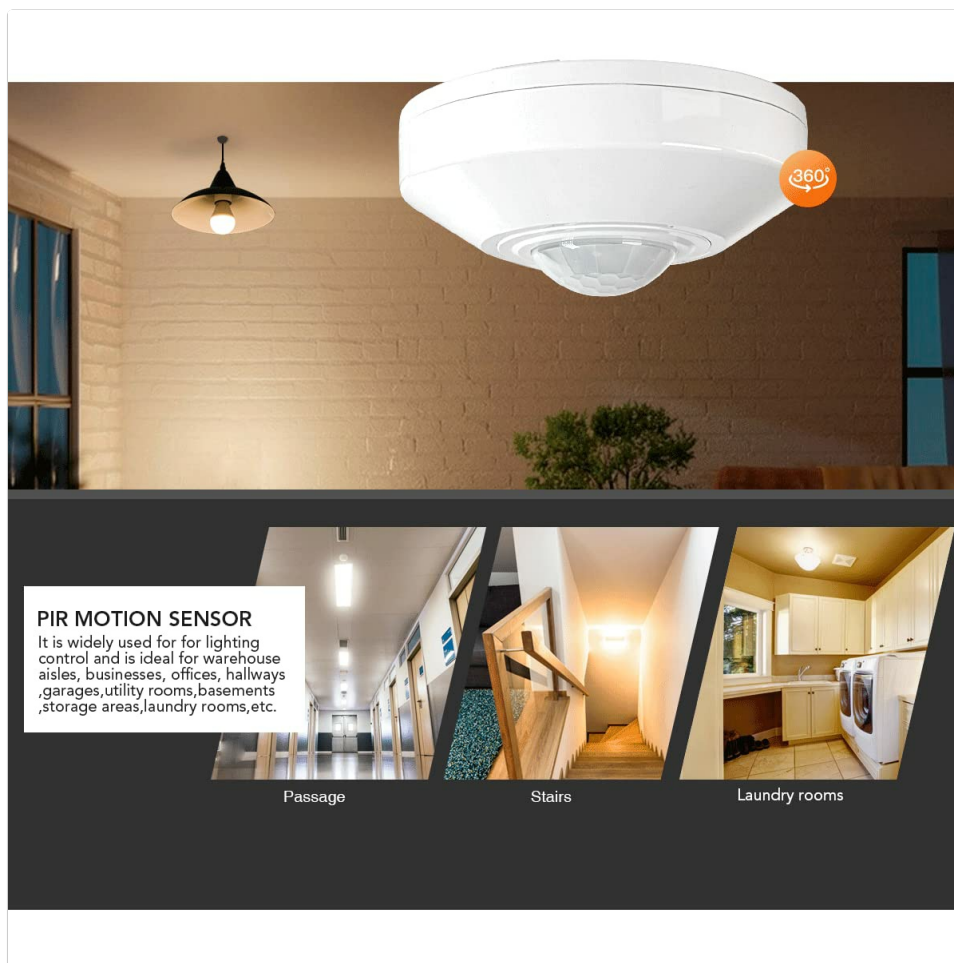


Image: Visual examples of the motion sensor's application in various settings like passages, stairs, and laundry rooms.

8. TROUBLESHOOTING

If you encounter issues with your RAYZEEK motion sensor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on with motion.	• Power is off. • Incorrect wiring. • LUX setting is too high for current ambient light. • Motion is outside detection range. • Sensitivity is too low.	• Check circuit breaker. • Verify wiring connections (L, L1, N). • Adjust LUX setting to a lower value or 'Off'. • Ensure motion occurs within the sensor's 360-degree, 8-12m range. • Increase sensitivity to 'High'.
Light stays on constantly.	• Continuous motion detected. • Time Delay setting is too long. • Sensor malfunction.	• Ensure no constant heat sources or air currents are triggering the sensor. • Adjust Time Delay to a shorter duration. • If problem persists, contact customer support.

Light turns on/off too frequently.	• Sensitivity is too high. • Interference from heat sources or air currents.	• Decrease sensitivity to 'Low'. • Relocate the sensor away from HVAC vents, windows, or other heat sources.
Green indicator light not flashing.	• No motion detected. • Sensor not powered.	• Move within the detection range. • Check power supply and wiring.

9. MAINTENANCE

To ensure optimal performance and longevity of your RAYZEEK motion sensor:

- **Cleaning:** Gently wipe the sensor lens and housing with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check the mounting and wiring connections to ensure they remain secure.
- **Avoid Obstructions:** Ensure no objects are blocking the sensor's field of view, as this can impair detection.

10. WARRANTY AND SUPPORT

RAYZEEK products are designed for quality and reliability. For specific warranty details, please refer to the warranty card included with your product or visit the official RAYZEEK website. If you require technical assistance or have questions not covered in this manual, please contact RAYZEEK customer support through their official channels.

Online Support: [Visit the RAYZEEK Store on Amazon](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question