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Garosa Garosad8s1zo7563

Garosa Mini 360-Degree Infrared Motion Sensor: Instruction Manual

Model: Garosad8s1zo7563

1. Product Overview

The Garosa Mini 360-Degree Infrared Motion Sensor is a recessed ceiling PIR (Passive Infrared) detector designed to automatically control lighting based on human movement. This device enhances safety and convenience by activating connected lights when motion is detected within its range.

- **Wide Applications:** Suitable for various indoor and outdoor environments such as homes, offices, gardens, and workplaces.
- **Time Setting:** Adjustable time delay for how long the light remains on after motion detection.
- **Practical Feature:** Functions as a motion-activated switch for lighting systems.
- **Infrared Motion Sensor:** Detects human movement to trigger the connected indicator (light).
- **Night Light Function:** Ideal for safety lighting in dark areas, preventing falls and improving visibility.

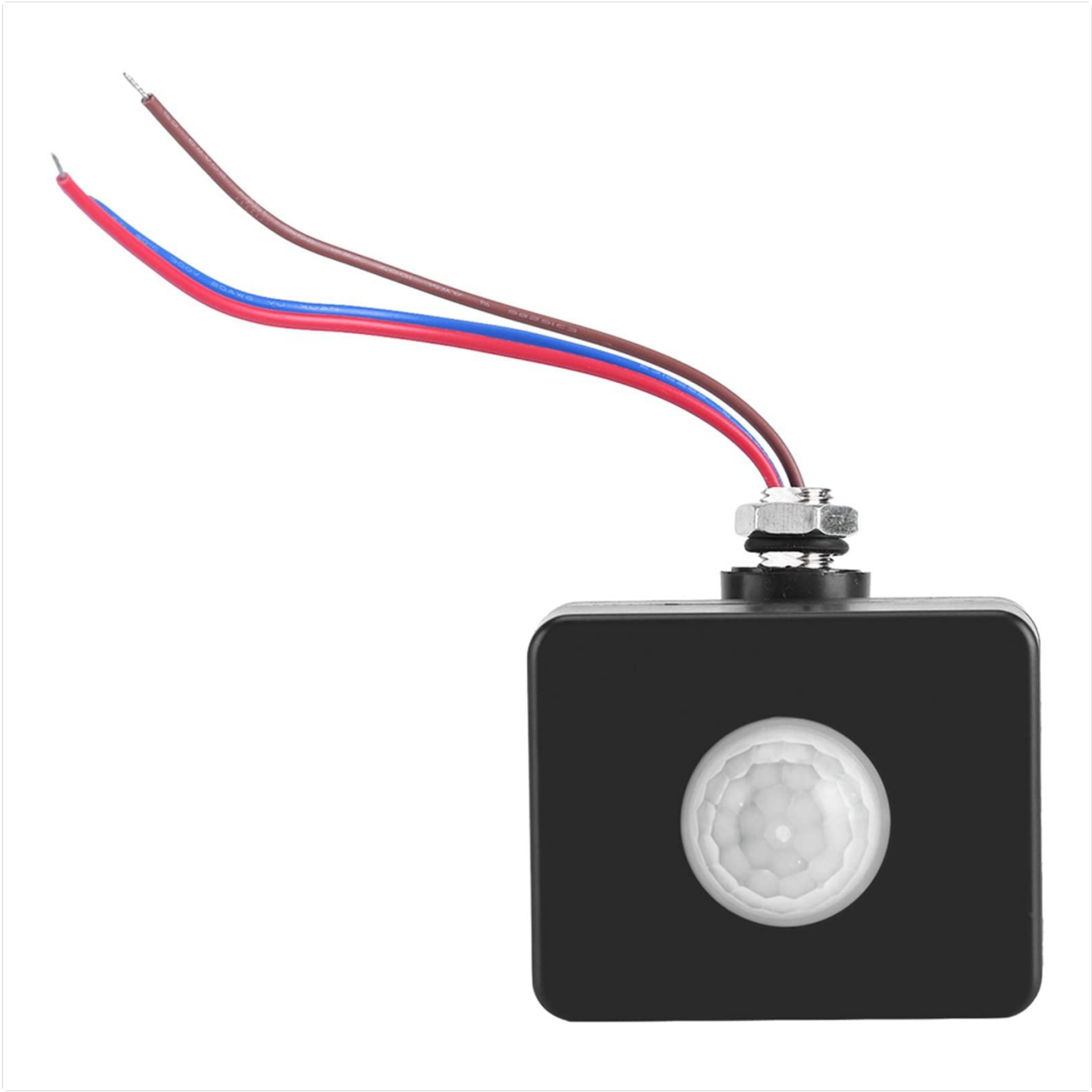


Figure 1: Front view of the Garosa Mini 360-Degree Infrared Motion Sensor.



Figure 2: Examples of suitable application environments for the motion sensor.

2. Safety Information

- Always disconnect power at the circuit breaker before installation or maintenance.
- Installation should be performed by a qualified electrician or in accordance with local electrical codes.
- Ensure the voltage supply (110-240V) matches the product specifications.
- Do not exceed the maximum rated load of 100W.
- Avoid installing near heat sources or in direct sunlight, as this may affect sensor performance.
- This device is rated IP54, providing protection against dust and splashing water. It is not suitable for submersion.

3. Technical Specifications

Feature	Specification
Brand	Garosa

Feature	Specification
Model Number	Garosad8s1zo7563
Color	Black
Power Source	Corded Electric
Voltage	110-240V
Frequency	60 Hz
Item Weight	0.05 Kilograms
Maximum Range	12 Meters
Mounting Type	Ceiling Mount
IP Rating	IP54
Compatible Devices	Light fixtures
Detection Angle	120°
Installation Height	1.8m - 2.5m
Max Rated Load	100W
Delay Time	10 seconds to 15 minutes (adjustable)

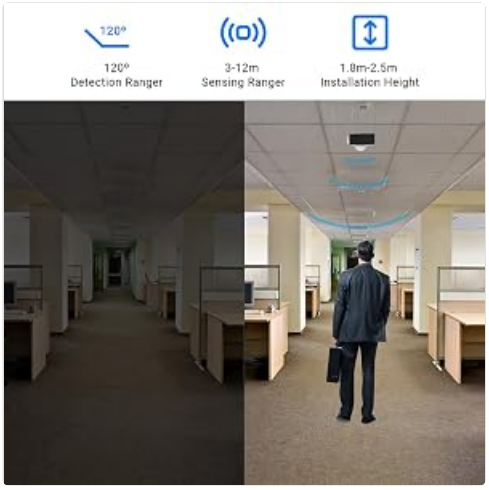


Figure 3: Detection range and recommended installation height.

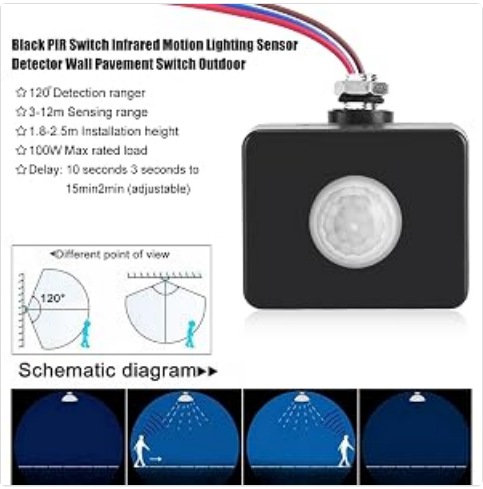


Figure 4: Schematic diagram of detection and adjustable settings.

4. Installation Guide

Important: Ensure power is disconnected at the main circuit breaker before beginning installation.

1. **Prepare Wiring:** Identify the Live (L), Neutral (N), and Load (L1) wires from your electrical circuit. The sensor typically has brown (Live), blue (Neutral), and red (Load) wires.
2. **Mount the Sensor:** This sensor is designed for recessed ceiling mounting. Create an appropriate opening in the ceiling for the sensor body, ensuring the detection lens is exposed.
3. **Connect Wires:**
    - Connect the **Brown wire (L)** from the sensor to the main Live wire.
    - Connect the **Blue wire (N)** from the sensor to the main Neutral wire.
    - Connect the **Red wire (L1)** from the sensor to the Live wire of your light fixture (Load).
    - Connect the Neutral wire of your light fixture to the main Neutral wire.
4. **Secure Connections:** Use appropriate wire connectors to ensure all connections are secure and insulated.
5. **Position Sensor:** Ensure the sensor's detection lens has an unobstructed view of the area where motion is to be detected.
6. **Restore Power:** Once installation is complete and all connections are secure, restore power at the circuit breaker.

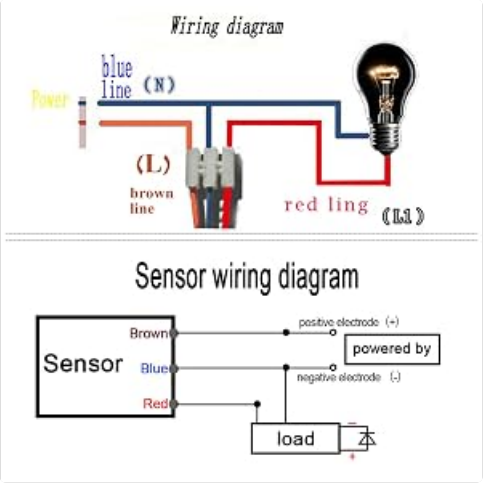


Figure 5: General wiring diagram for connecting the motion sensor to a light fixture.



Figure 6: Wiring diagram illustrating compatibility with various bulb types.

5. Operation and Adjustments

The sensor features three adjustable knobs for fine-tuning its behavior:



Figure 7: Adjustment knobs for SENS, TIME, and LUX settings.

1. **SENS (Sensitivity):**
   This knob controls the detection range of the sensor. Turn clockwise to increase sensitivity (wider range) and counter-clockwise to decrease sensitivity (shorter range).
2. **TIME (Time Delay):**
   This knob sets how long the connected light remains on after motion is no longer detected. The adjustable range is typically from 10 seconds to 15 minutes. Turn clockwise for a longer delay and counter-clockwise for a shorter delay.
3. **LUX (Light Sensor):**
   This knob determines the ambient light level at which the sensor will activate.
   - Turn towards the ***sun icon*** for the sensor to operate during both day and night (high LUX threshold).
   - Turn towards the ***moon icon*** for the sensor to operate only in low light conditions or darkness (low LUX

threshold).

After adjusting, test the sensor's functionality by moving within its detection area and observing the light's response.



Figure 8: Visual representation of motion detection and light activation.

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Video 1: Demonstration of the Infrared Motion Sensor Detector's functionality and features.

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Video 2: Short overview of the Motion Sensor Recessed Ceiling PIR Body Motion Detector.

6. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	◦ No power to the sensor. ◦ Incorrect wiring. ◦ LUX setting is too low (sensor thinks it's daytime). ◦ Sensor sensitivity (SENS) is too low. ◦ Faulty bulb or light fixture.	◦ Check power supply at the circuit breaker. ◦ Verify wiring connections according to the diagram (Figure 5, Figure 6). ◦ Adjust the LUX knob towards the "moon" icon for night operation, or "sun" for day/night. ◦ Increase the SENS knob clockwise. ◦ Test the light fixture with a known working power source.
Light stays on continuously.	◦ Constant motion in the detection area. ◦ TIME setting is too long. ◦ Sensor is faulty. ◦ Incorrect wiring (e.g., load wire directly connected to live).	◦ Ensure no continuous movement or heat sources are within the detection zone. ◦ Adjust the TIME knob counter-clockwise for a shorter delay. ◦ Verify wiring connections. If the issue persists after checking all settings and wiring, the sensor may be faulty.

Problem	Possible Cause	Solution
Light turns on and off frequently.	◦ Intermittent motion or environmental factors (e.g., swaying trees, small animals). ◦ SENS setting is too high.	◦ Adjust the SENS knob counter-clockwise to reduce sensitivity. ◦ Ensure the sensor is not pointing at areas with frequent, non-human motion.

7. Maintenance

- Keep the sensor lens clean and free from dust or obstructions. Use a soft, dry cloth for cleaning.
- Do not use abrasive cleaners or solvents on the sensor.
- Periodically check wiring connections for any signs of wear or loosening.
- Ensure the sensor is securely mounted and not subject to excessive vibration.

8. Warranty and Support

For warranty information or technical support, please refer to the retailer's policy or contact Garosa customer service directly. Keep your purchase receipt for proof of purchase.

Manufacturer: Garosa

UPC: 757686515860

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