

Maclean MCE295 B

Maclean MCE295 Infrared Motion Sensor User Manual

Model: MCE295 B | Brand: Maclean

1. INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of the Maclean MCE295 Infrared Motion Sensor. Please read this manual thoroughly before installation and use to ensure proper function and safety. Keep this manual for future reference.

2. SAFETY INSTRUCTIONS

- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with all local and national electrical codes. Disconnect power at the circuit breaker before installation or servicing.
- **Voltage:** Ensure the supply voltage matches the sensor's rated voltage (240V AC).
- **Outdoor Use:** The sensor is IP54 rated for outdoor use, meaning it is protected against dust ingress and splashing water. However, avoid direct exposure to high-pressure water jets.
- **Mounting:** Mount the sensor securely to a stable surface. Do not install near heat sources, air conditioning vents, or in direct sunlight, as this may affect sensor performance.
- **Detection Area:** Do not obstruct the sensor's detection lens.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Maclean MCE295 Infrared Motion Sensor (Black)
- User Manual (this document)
- Mounting Screws and Wall Plugs



Image: The Maclean MCE295 motion sensor shown in its original retail packaging, indicating the product and its branding.

4. PRODUCT FEATURES

The Maclean MCE295 Infrared Motion Sensor offers advanced features for reliable motion detection and automation:

- Highly sensitive infrared motion detection.
- Wide detection angle: 180° horizontally and 360° vertically.
- Detection range up to 12 meters.
- Integrated twilight sensor for light-dependent operation.
- IP54 rating: suitable for outdoor use (dustproof and splash-proof).
- Adjustable time delay for connected devices.
- Adjustable light sensitivity (LUX) for activation threshold.
- Multiple mounting options: wall, ceiling, or corner installation.



Image: A clear front view of the Maclean MCE295 infrared motion sensor, highlighting its compact design and the spherical sensor head.

5. SETUP AND INSTALLATION

Follow these steps for proper installation of your motion sensor. Ensure power is OFF before beginning.

5.1. Mounting Options

The MCE295 sensor offers versatile mounting options to suit various installation needs:

- **Wall Mount:** Attach directly to a flat wall surface.
- **Ceiling Mount:** Install on a flat ceiling surface.
- **Corner Mount (External):** Use the included bracket to mount on an external corner.
- **Corner Mount (Internal):** Use the included bracket to mount in an internal corner.

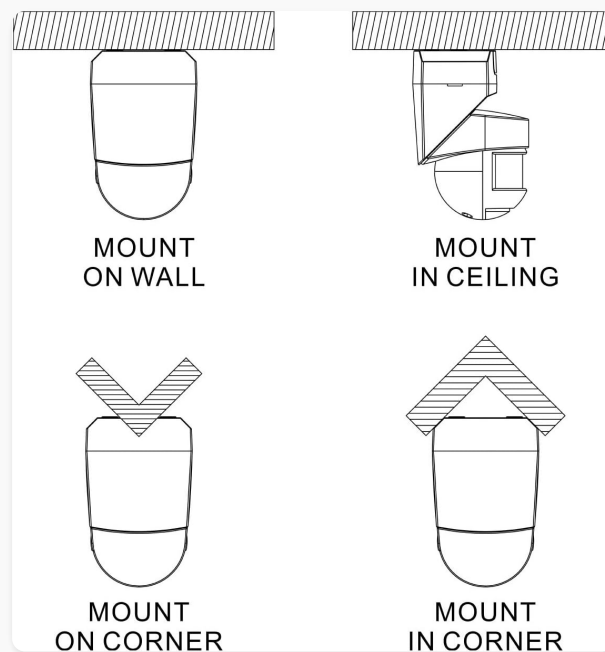


Image: A technical diagram illustrating the four possible mounting configurations for the sensor: wall, ceiling, external corner, and internal corner.

5.2. Wiring

WARNING: Ensure power is disconnected before wiring.

1. Separate the sensor's main body from its mounting base. The mounting base typically detaches to reveal the wiring terminals.
2. Connect the electrical wires to the appropriate terminals as shown in the diagram below. The sensor requires a Live (L), Neutral (N), and Switched Live (L') connection to the load (e.g., light fixture).
3. Securely fasten all wire connections.
4. Reattach the sensor body to the mounting base, ensuring a secure fit.



Image: An exploded view of the motion sensor, revealing the internal wiring block with red, blue, and brown wires, and the detachable mounting plate.

5.3. Installation Steps

1. Choose a suitable mounting location based on the desired detection area and mounting option.
2. Mark the drilling points using the mounting base as a template.
3. Drill holes and insert wall plugs (if necessary).
4. Secure the mounting base to the wall/ceiling/corner using the provided screws.
5. Perform the wiring as described in Section 5.2.
6. Attach the sensor body to the mounted base.
7. Restore power and test the sensor.

6. OPERATING AND ADJUSTMENTS

The Maclean MCE295 sensor features two adjustable dials for customizing its operation:

- **TIME (Time Delay):** Controls how long the connected light/device remains ON after motion is detected and then stops. Turn the dial clockwise to increase the time delay, counter-clockwise to decrease it.
- **LUX (Light Sensitivity):** Determines the ambient light level at which the sensor will activate. Turn the dial towards the 'sun' icon for activation in brighter conditions (daylight), or towards the 'moon' icon for activation only in darker conditions (night).



Image: A detailed close-up of the two adjustment dials on the sensor's underside, labeled with icons for time (clock) and light sensitivity (sun/moon).

6.1. Testing the Sensor

After installation and adjustment, perform a test to ensure correct operation:

1. Set the TIME dial to its minimum setting (shortest duration).
2. Set the LUX dial to the 'sun' icon (maximum sensitivity) to allow testing during daylight.
3. Walk through the detection area. The connected light/device should turn ON.
4. Step out of the detection area. The light/device should turn OFF after the set time delay.
5. Adjust TIME and LUX to your desired settings for normal operation.

7. MAINTENANCE

The Maclean MCE295 motion sensor requires minimal maintenance:

- **Cleaning:** Periodically wipe the sensor lens and body with a soft, damp cloth to remove dust or dirt. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check for any signs of damage to the casing or wiring. If damage is found, disconnect power and have it inspected by a qualified technician.
- **Obstructions:** Ensure no new obstructions (e.g., growing plants, new furniture) are blocking the sensor's detection area.

8. TROUBLESHOOTING

If you experience issues with your Maclean MCE295 motion sensor, refer to the following table:

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Light/device does not turn ON when motion is detected.	- No power to the sensor. - Incorrect wiring. - LUX setting too low (sensor thinks it's too bright). - Sensor lens obstructed. - Faulty sensor or connected device.	- Check power supply and circuit breaker. - Verify wiring according to Section 5.2. - Adjust LUX dial towards 'sun' icon for testing. - Clear any obstructions from the sensor lens. - Test connected device separately; if still not working, contact support.
Light/device stays ON constantly.	- Continuous motion in detection area. - TIME setting too long. - Sensor is faulty.	- Ensure no constant motion is present. - Adjust TIME dial to a shorter duration. - Disconnect power for 1 minute, then reconnect. If problem persists, sensor may be faulty.
Light/device turns ON and OFF frequently.	- Intermittent motion or environmental factors (e.g., swaying trees, reflections). - Sensor too sensitive.	- Relocate sensor or adjust detection area to avoid false triggers. - Adjust LUX dial to a lower sensitivity.

9. SPECIFICATIONS

Attribute	Value
Model Number	MCE295 B
Brand	Maclean
Color	Black
Power Source	AC/DC
Voltage	240 Volts
Maximum Power Load	2000 Watts
Detection Angle	180° + 360°
Maximum Detection Range	12 Meters
Ingress Protection (IP) Rating	IP54 (Dustproof, Splash-proof)
Product Dimensions	9 x 16 x 8 cm

Attribute	Value
Item Weight	200 Grams
Installation Method	Screws (Wall Mount, Ceiling Mount)
Compatible Devices	Light fixtures, Alarm systems, etc.
Recommended Applications	Home automation, Security, Energy efficiency



Image: A diagram illustrating the physical dimensions of the sensor, showing its height (13cm), depth (9cm), and width (8cm).

10. WARRANTY AND SUPPORT

Specific warranty information for the Maclean MCE295 Infrared Motion Sensor is not provided within this manual. For details regarding warranty coverage, technical support, or service, please refer to the original purchase documentation or visit the official Maclean website. It is recommended to retain your proof of purchase for warranty claims.

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

Open the live page

<https://manuals.plus/asin/B08D9PJMXS>

More documents and user manuals: <https://manuals.plus/>