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› [Maclean](#) /

› Maclean MC295 Infrared Motion Detector User Manual

Maclean MC295

Maclean MC295 Infrared Motion Detector

User Manual

1. INTRODUCTION

The Maclean MC295 is an advanced infrared motion detector designed for automatic control of lighting and security systems. Equipped with highly sensitive sensors offering 180° and 360° detection angles, it can detect movement up to 12 meters. This device is suitable for a wide range of applications, including homes, gardens, corridors, basements, and garages, enhancing convenience, security, and energy efficiency by activating connected devices only when necessary.



Figure 1: Front view of the Maclean MC295 Infrared Motion Detector.

2. SAFETY INFORMATION

Please read these safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- Installation must be performed by a qualified electrician in accordance with local electrical codes and regulations.
- Ensure the power supply is disconnected before any installation, maintenance, or troubleshooting procedures.
- Do not expose the device to extreme temperatures, direct sunlight for prolonged periods, or corrosive environments.
- This product is rated IP54 for dust and splash water protection, making it suitable for indoor and outdoor use. However, avoid direct water jets or submersion.
- Do not attempt to disassemble or modify the device. Unauthorized modifications will void the warranty and may pose safety risks.

3. PRODUCT OVERVIEW

The Maclean MC295 features a compact design with adjustable settings for optimal performance. Key components include the infrared sensor lens and adjustment dials for time and light sensitivity.



Figure 2: Close-up view of the time and LUX adjustment dials.

The device is designed for versatile mounting, allowing for installation on walls, ceilings, or in corners.



Figure 3: Side view of the motion detector, showing its compact form factor.

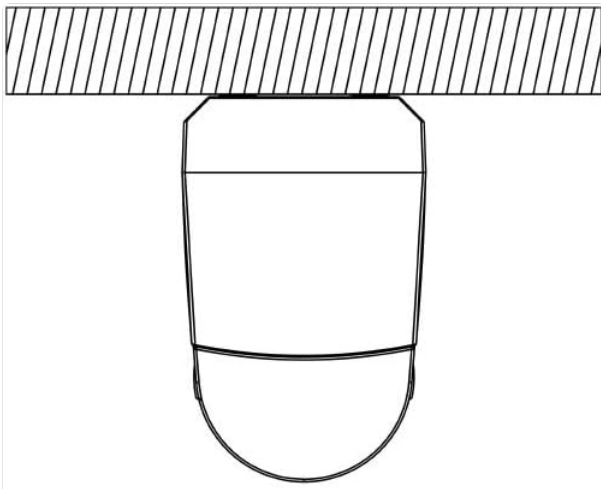
4. SETUP AND INSTALLATION

Before installation, ensure the power supply is turned off at the main circuit breaker. The Maclean MC295 offers multiple mounting options to suit various environments.

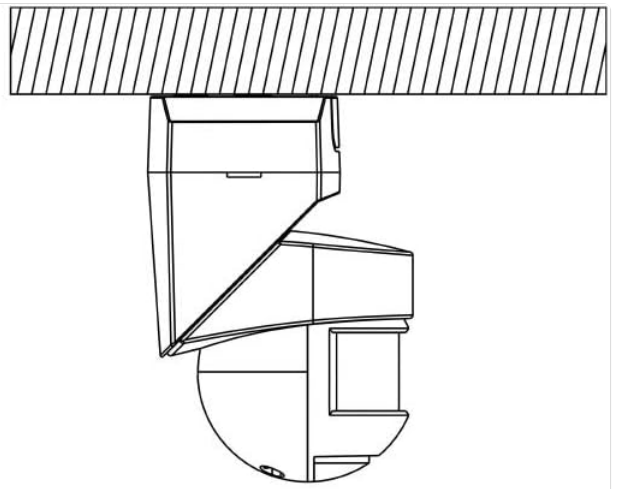
4.1 Mounting Options

The sensor can be mounted in four different ways:

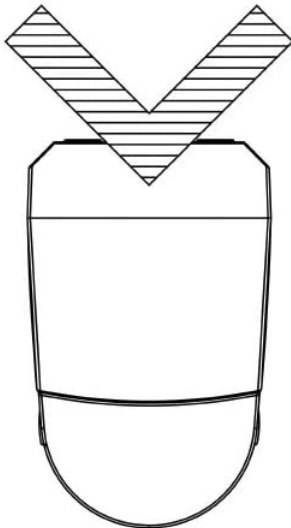
- **Wall Mount:** Ideal for general area coverage.
- **Ceiling Mount:** Provides a wider detection area from above.
- **On Corner Mount:** For external corners, maximizing detection around the corner.
- **In Corner Mount:** For internal corners, providing focused detection within the corner area.



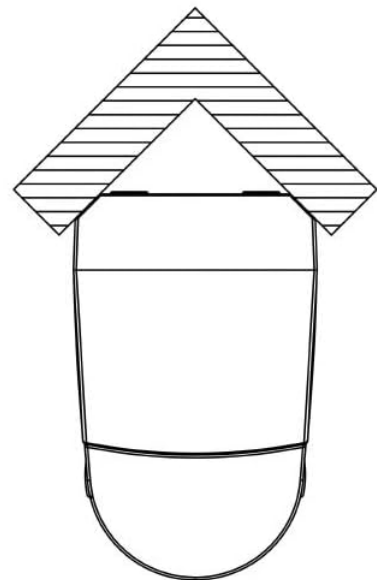
**MOUNT
ON WALL**



**MOUNT
IN CEILING**



**MOUNT
ON CORNER**



**MOUNT
IN CORNER**

Figure 4: Illustration of the various mounting configurations for the motion detector.

4.2 Wiring

The device requires a 220V/AC-240V/AC, 50/60 Hz power supply. Connect the wires as shown in the diagram below. Ensure all connections are secure and insulated.

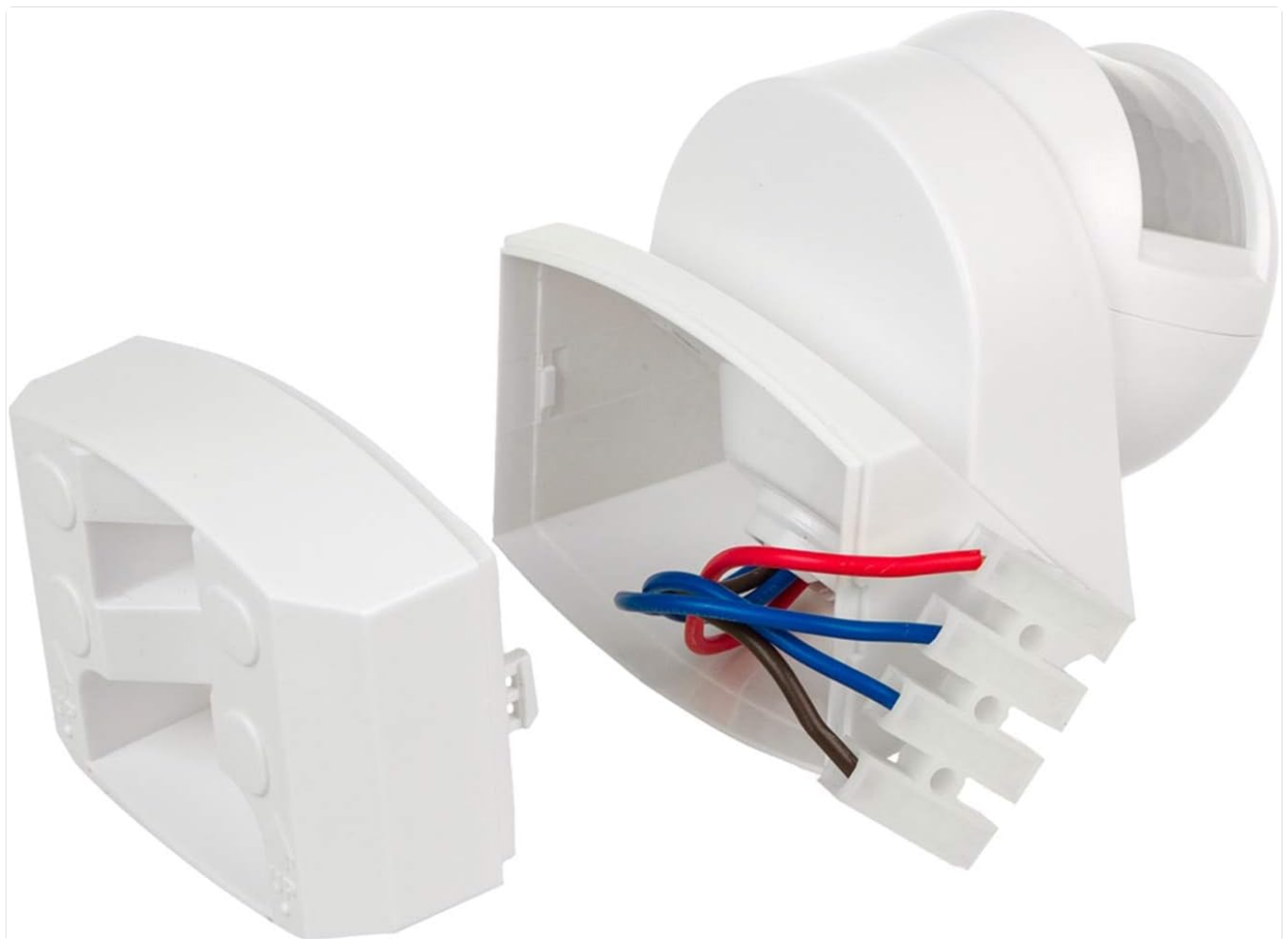


Figure 5: Internal wiring connections. Consult a qualified electrician for proper installation.

After mounting and wiring, secure the cover and restore power. The unit may undergo a brief self-test upon initial power-up.

5. OPERATING INSTRUCTIONS

The Maclean MC295 features two adjustable controls to customize its operation:

- **TIME Setting:** This dial controls the duration the connected light remains on after motion is detected. It can be adjusted from a minimum of 10 seconds (± 3 seconds) to a maximum of 10 minutes (± 3 minutes). Turn the dial clockwise to increase the time and counter-clockwise to decrease it.
- **LUX (Twilight) Setting:** This dial determines the ambient light level at which the sensor becomes active. It can be set from less than 10 LUX (darkness) to 2000 LUX (daylight). Turn the dial towards the 'sun' icon for daylight operation (always on when motion is detected) or towards the 'moon' icon for night-only operation (only activates when it's dark enough).

Adjust these settings according to your specific needs and environmental conditions.

6. MAINTENANCE

The Maclean MC295 motion detector requires minimal maintenance. To ensure optimal performance and longevity:

- Regularly clean the sensor lens with a soft, dry cloth to remove dust or debris that may obstruct detection.
- Do not use abrasive cleaners or solvents, as these can damage the plastic components.
- Periodically check the mounting for stability, especially if installed outdoors.

- Ensure no objects are blocking the sensor's field of view.

7. TROUBLESHOOTING

If you encounter issues with your Maclean MC295 motion detector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light stays on continuously.	Continuous motion in detection area. TIME setting too long. Wiring error (e.g., constant live connection).	Remove obstructions or sources of constant motion. Adjust TIME dial to a shorter duration. Verify wiring connections according to the diagram. Consult a qualified electrician if unsure.
Light does not turn on when motion is detected.	No power to the unit. LUX setting too low (sensor thinks it's always bright). Motion outside detection range/angle. Faulty bulb or connected device.	Check power supply and circuit breaker. Adjust LUX dial towards the 'sun' icon for testing, or 'moon' for night operation. Reposition the sensor or ensure motion occurs within the 12m range and 180°/360° angle. Test the connected light/device independently.
Sensor is too sensitive or not sensitive enough.	Incorrect installation height. Environmental factors (e.g., heat sources, strong winds).	Ensure installation height is within 1.8-2.5m (wall) or 2.2-4m (ceiling). Avoid mounting near heat vents, reflective surfaces, or areas with constant air movement.

8. SPECIFICATIONS

Feature	Detail
Model	MCE295 W
Detection Angle	180° + 360°
Detection Range	Up to 12 meters (<24°C)
Time Setting	Min. 10 sec (±3 sec) to Max. 10 min (±3 min)
Twilight Setting (LUX)	<10 - 2000 LUX
Installation Height (Wall)	1.8 - 2.5 meters
Installation Height (Ceiling)	2.2 - 4 meters
Rated Load	Max. 1000 W (incandescent bulb) / 100 W (energy-saving lamp)
Protection Degree	IP54 (Dust and splash water protected)
Application	Indoor and Outdoor

Feature	Detail
Power Supply	220V/AC-240V/AC, 50/60 Hz
Speed Detection	0.6 ~ 1.5 m/s
Color	White

9. WARRANTY AND SUPPORT

Maclean products are manufactured to high-quality standards. For information regarding warranty terms and conditions, please refer to the documentation provided with your purchase or contact Maclean customer support directly. Keep your proof of purchase for any warranty claims.

For technical support or further assistance, please visit the official Maclean website or contact their customer service department. Contact details can typically be found on the product packaging or the manufacturer's website.

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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.

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