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› Maclean MCE201W Infrared Motion Detector User Manual

Maclean MCE201W

Maclean MCE201W Infrared Motion Detector

USER MANUAL

Model: MCE201W | Brand: Maclean

1. Introduction

Thank you for choosing the Maclean MCE201W Infrared Motion Detector. This device is designed to automatically control lighting or other electrical appliances based on detected movement and ambient light conditions. Its robust IP65 rating makes it suitable for both indoor and outdoor applications, providing reliable performance in various environments.

This manual provides detailed instructions for the safe installation, operation, and maintenance of your motion detector. Please read it thoroughly before installation and keep it for future reference.



Image 1.1: Front view of the Maclean MCE201W Infrared Motion Detector.

2. Safety Information

- Installation must be performed by a qualified electrician in accordance with local wiring regulations.
- Disconnect power at the circuit breaker before installation or servicing.
- Do not exceed the maximum load capacity of 1200W (resistive load) or 300W (inductive load).
- Ensure the device is securely mounted to prevent accidental falls.
- The IP65 rating provides protection against water jets from any direction, but the device should not be submerged in water.
- Keep out of reach of children.

3. Product Overview

The Maclean MCE201W features a passive infrared (PIR) sensor that detects heat emitted by moving objects. It includes adjustable settings for light sensitivity (LUX) and illumination duration (TIME).



Image 3.1: Close-up view of the LUX and TIME adjustment knobs.

The sensor head can be adjusted vertically and horizontally to optimize the detection area.



Image 3.2: Illustration of the sensor's adjustable detection angles ($\pm 90^\circ$ vertical, $\pm 180^\circ$ horizontal).

4. Setup and Installation

The MCE201W motion detector can be mounted on a wall or ceiling. Ensure the mounting surface is stable and can support the device.

1. **Preparation:** Disconnect the main power supply before starting any electrical work.
2. **Mounting:** Use the provided mounting accessories to securely attach the base of the detector to your desired location. The device is designed for both ceiling and wall mounting.
3. **Wiring:** Connect the power supply wires to the appropriate terminals inside the detector's wiring compartment. Refer to the wiring diagram on the product or in the detailed instructions provided with the packaging. Ensure all connections are secure.
4. **Sensor Head Adjustment:** Once mounted and wired, adjust the sensor head to cover the desired detection area. The sensor offers a 180° detection angle and a range of up to 12 meters.
5. **Power On:** Restore power to the circuit. The detector will enter a warm-up period (typically 30-60 seconds) during which it may activate randomly.



Image 4.1: Bottom view of the motion detector, showing mounting points.



Image 4.2: Rear view of the motion detector, showing wiring compartment and basic electrical specifications.

5. Operating Instructions

The Maclean MCE201W features two adjustable knobs for customization:

- **LUX Knob (Light Sensitivity):** This knob controls the ambient light level at which the sensor will activate.
 - Rotate towards the 'moon' symbol (3 lux) for activation only in dark conditions.
 - Rotate towards the 'sun' symbol (2000 lux) for activation in both day and night conditions.
- **TIME Knob (Illumination Duration):** This knob sets how long the connected light or appliance remains on after motion is detected.
 - Adjustable from approximately 10 seconds to 15 minutes.
 - Once motion is no longer detected, the timer will count down, and the light will turn off. If motion is detected again during the countdown, the timer will reset.

Day and Night Operation: The integrated twilight sensor allows the detector to function effectively both during the day and at night. By adjusting the LUX knob, you can determine if the sensor should activate only when it's dark or at any time of day.

6. Maintenance

The Maclean MCE201W motion detector requires minimal maintenance. To ensure optimal performance:

- Regularly clean the sensor lens with a soft, dry cloth to remove dust or dirt that may obstruct detection. Do not use abrasive cleaners or solvents.

- Periodically check the mounting for security, especially if installed outdoors.
- Do not attempt to open or repair the device yourself. Refer to qualified personnel for any repairs.

7. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	• No power supply. • LUX setting too low (set for dark, but it's bright). • Sensor obstructed. • Wiring error.	• Check power connection. • Adjust LUX knob towards 'sun' symbol. • Clear any obstructions from the sensor lens. • Verify wiring connections.
Light stays on constantly.	• Continuous motion in detection area. • TIME setting too long. • Wiring error. • Sensor malfunction.	• Ensure no constant motion or heat sources are in the detection zone. • Adjust TIME knob to a shorter duration. • Verify wiring connections. • If problem persists, contact support.
Detection range is poor.	• Incorrect sensor angle. • Obstructions. • Temperature fluctuations.	• Adjust sensor head angle. • Remove obstructions. • Avoid placing near heat sources or air conditioning vents.

8. Specifications

Feature	Detail
Model Number	MCE201W
Power Source	Cabled Electric (220-240V/AC, 50Hz)
Rated Load	Max. 1200W (Resistive), Max. 300W (Inductive)
Detection Range	12 Meters
Detection Angle	180°
Light Sensitivity (LUX)	3 - 2000 Lux (Adjustable)
Time Delay (TIME)	10 seconds - 15 minutes (Adjustable)
Installation Height	1.8m - 2.5m
Protection Rating	IP65
Dimensions (L x W x H)	8 x 9 x 11 cm
Weight	200 grams
Mounting Type	Ceiling/Wall Mount

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your product or visit the official Maclean website. Keep your purchase receipt as proof of purchase for any warranty claims.

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