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Maclean MCE467

Maclean MCE467 PIR Motion Detector with Twilight Sensor and Remote Control User Manual

1. Introduction

Thank you for choosing the Maclean MCE467 PIR Motion Detector. This device is designed to provide automatic lighting control, enhancing convenience and energy efficiency in various indoor environments. It features a 360-degree detection range, an integrated twilight sensor, and a remote control for flexible adjustments. Please read this manual carefully before installation and operation to ensure correct usage and optimal performance.



Figure 1: Maclean MCE467 PIR Motion Detector product packaging.

Safety Information

- Installation must be performed by a qualified electrician.
- Ensure power is disconnected before installation or maintenance.

- This device is rated IP20 and is intended for indoor use only. Avoid exposure to moisture or extreme temperatures.
- Do not exceed the maximum load capacity of 2000W.

2. Setup and Installation

Choosing an Installation Location

The MCE467 motion detector is designed for ceiling mounting. For optimal performance, consider the following:

- Install at a height of 2.2m to 4m.
- Ensure the detection area is clear of obstructions.
- Avoid installing near heat sources (e.g., air conditioners, heaters) or in direct sunlight, as this may affect sensor accuracy.

Wiring Instructions

Warning: Disconnect power at the main circuit breaker before proceeding with wiring.

1. Carefully open the detector housing.
2. Connect the live wire (L) from the power supply to the 'L' terminal on the detector.
3. Connect the neutral wire (N) from the power supply to the 'N' terminal on the detector.
4. Connect the load wire (L') to the 'L" terminal on the detector. This wire will go to your light fixture or other controlled device.
5. Ensure all connections are secure.
6. Close the detector housing and mount it securely to the ceiling.

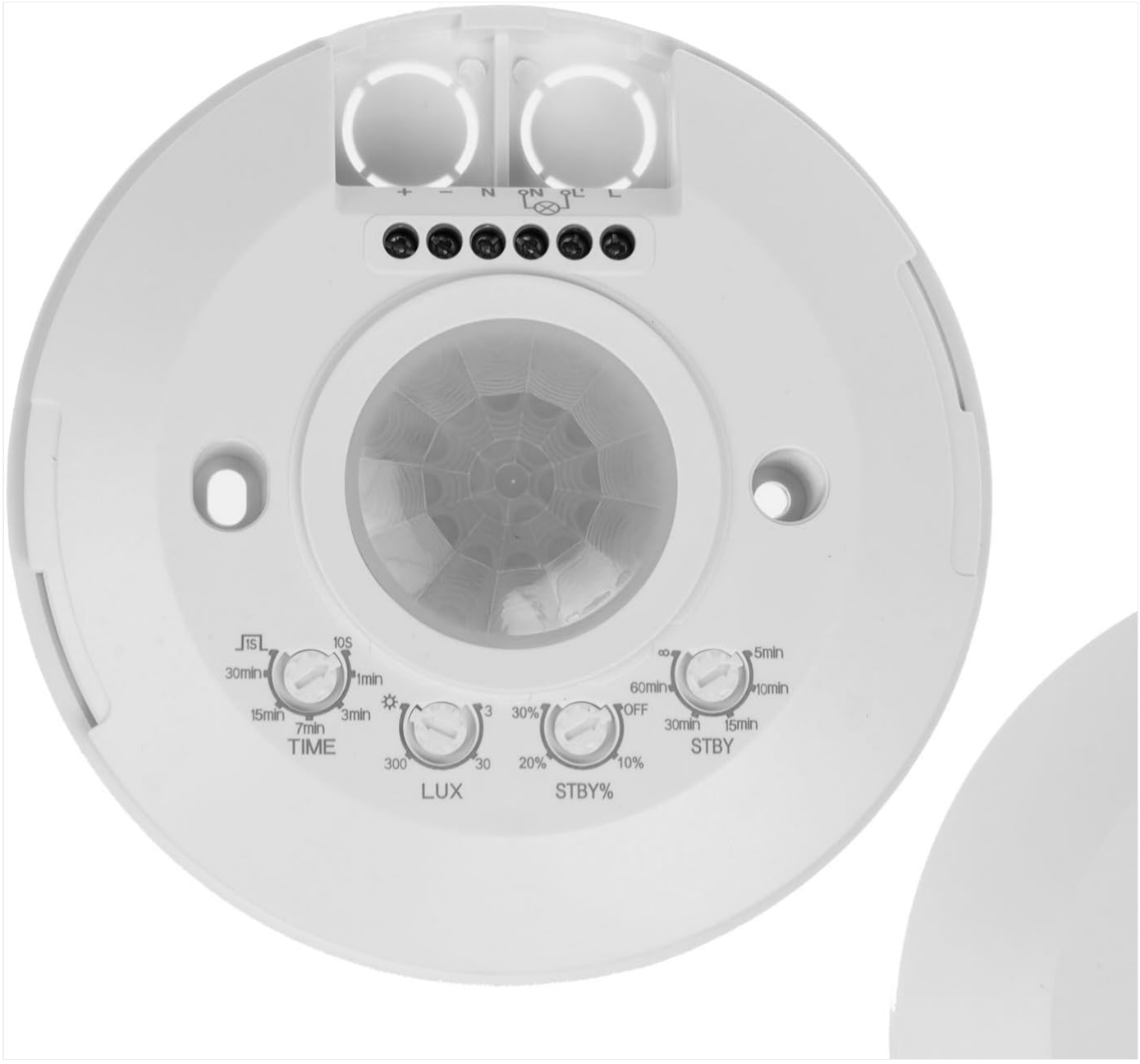


Figure 2: Rear view of the motion detector with wiring terminals (L, N, L').



Figure 3: Example wiring diagram for the motion detector.

3. Operating Instructions

The Maclean MCE467 can be configured using the included remote control or manual dials on the unit.



Figure 4: Maclean MCE467 Motion Detector and its remote control.

Remote Control Functions

The remote control allows for convenient adjustment of various settings:

- **ON/OFF/AUTO:** Manually turn the light ON, OFF, or set to automatic (sensor-controlled) mode.
- **Detection Range:** Adjust the sensor's sensitivity (e.g., 100%, 75%, 50%).
- **Daylight Sensor (LUX):** Set the ambient light threshold at which the sensor becomes active (e.g., 10 LUX, 50 LUX, 150 LUX, 2000 LUX).
- **Hold-time:** Determine how long the light stays on after motion is detected (e.g., 10s, 1min, 3min, 7min, 15min, 30min).
- **Stand-by Period (STBY):** Set the duration for the standby dimming mode (e.g., 5min, 10min, 15min, 30min, 60min, ∞ for infinite).
- **Stand-by Dimming Level (STBY%):** Adjust the dimming level during standby mode (e.g., OFF, 10%, 20%, 30%).
- **TEST:** Activates a test mode for quick setup and verification of detection range and hold-time.



Figure 5: Detailed view of the remote control functions.

Manual Adjustments (Dials)

The detector also features three rotary dials for manual adjustment of TIME, LUX, and STBY% settings, providing an alternative to the remote control.



Figure 6: Bottom view of the motion detector with manual adjustment dials for TIME, LUX, and STBY%.

- **TIME:** Adjusts the hold-time (duration the light stays on after detection) from 10 seconds to approximately 30 minutes.
- **LUX:** Sets the ambient light sensitivity (twilight sensor) from <3 LUX (darkness) to 2000 LUX (daylight).
- **STBY%:** Controls the dimming level during standby mode.

Detection Area

The sensor offers a 360-degree detection angle with a maximum range of 8 meters. The detection range can be adjusted via the remote control.



Figure 7: Illustration of the 360-degree detection range.

4. Maintenance

The Maclean MCE467 PIR Motion Detector requires minimal maintenance.

- **Cleaning:** Gently wipe the sensor lens and housing with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check for any loose connections or physical damage.

No user-serviceable parts are inside the unit. Do not attempt to disassemble the device beyond accessing the wiring terminals for installation.

5. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	No power to the unit. LUX setting is too high (sensor thinks it's daylight). Detection range is too low or obstructed. Faulty wiring.	Check power supply. Adjust LUX setting to a lower value or '2000 LUX' for testing. Increase detection range or clear obstructions. Verify wiring connections (ensure power is off).

Problem	Possible Cause	Solution
Light stays on continuously.	Constant motion in detection area. Hold-time set to maximum. Sensor malfunction.	Adjust detection range or reposition sensor. Reduce hold-time setting. Contact support if problem persists.
Remote control not working.	Battery depleted. Obstruction between remote and sensor.	Replace remote control battery. Ensure clear line of sight to the sensor.

6. Specifications

Feature	Specification
Model Number	MCE467
Manufacturer	Maclean
Dimensions (L x W x H)	15.2 x 4.4 x 12.3 cm
Weight	100 grams
Color	White
Power Source	Electric Cable (220-240V/AC)
Max Load	2000 W
Detection Range	360 degrees, up to 8 meters
Installation Type	Wall Mount (Ceiling Mount is implied by product type and images)
IP Rating	IP20
Twilight Sensor Sensitivity	<3-2000 LUX
Hold-time Adjustment	10 seconds to 30 minutes
Standby Mode	Adjustable dimming level and period

7. Warranty

This product is covered by the manufacturer's standard warranty. Please refer to your purchase documentation or contact your retailer for specific warranty terms and conditions. Keep your proof of purchase for any warranty claims.

8. Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the retailer where you purchased the Maclean MCE467 PIR Motion Detector. You may also visit the official Maclean website for additional resources or contact information.

Website: www.maclean.pl (Please note: This link is an example and may not be the exact support page.)

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