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› Maclean MCE33 Outdoor Wall Light with LED Bulb, PIR Motion Detector and Dusk Sensor User Manual

Maclean MCE33W/MCE266

Maclean MCE33 Outdoor Wall Light with LED Bulb, PIR Motion Detector and Dusk Sensor User Manual

1. INTRODUCTION

The Maclean MCE33 is an outdoor wall light designed to provide efficient illumination with integrated motion and dusk sensing capabilities. This light is ideal for enhancing security and convenience in various outdoor settings such as gardens, yards, garages, and pathways. It features a 180° PIR motion detector with a range of up to 9 meters and a dusk sensor that ensures the light only activates when ambient light levels are low. The included energy-efficient 4W LED bulb provides warm white light.

2. SAFETY INSTRUCTIONS

- Always disconnect power at the main circuit breaker before installation, maintenance, or bulb replacement.
- Installation should be performed by a qualified electrician in accordance with local electrical codes and regulations.
- Ensure the power supply voltage (110-240 V/AC, 50/60 Hz) matches the product's requirements.
- Do not exceed the maximum rated load of 60W for the E27 lamp holder.
- This product is rated IP44 for protection against splashing water. Ensure all connections are properly sealed for outdoor use.
- Do not look directly into the LED light source when it is illuminated.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Please check the package contents to ensure all items are present and undamaged:

- Maclean MCE33 Outdoor Wall Light with integrated PIR Motion Detector and Dusk Sensor
- 4W LED E27 Bulb (Warm White, 3000K)
- Mounting Screws and Wall Plugs
- User Manual



Image: Maclean MCE33 outdoor wall light with the included 4W LED bulb.





Image: The product packaging for the Maclean MCE33 wall light.

4. SETUP

4.1. Mounting the Light

1. Choose a suitable mounting location, ideally between 1.8 to 2 meters above the ground, to ensure optimal motion detection.
2. Mark the drilling points on the wall using the light fixture as a template.
3. Drill holes and insert the wall plugs.
4. Secure the light fixture to the wall using the provided screws.



Image: Side view of the Maclean MCE33 wall light, illustrating its profile for mounting.



Image: Rear view of the Maclean MCE33 wall light, showing the mounting holes and internal structure.

4.2. Electrical Connection

1. Ensure power is OFF at the main circuit breaker.
2. Open the light fixture to access the wiring terminals.
3. Connect the live (L), neutral (N), and ground (GND) wires from your electrical supply to the corresponding terminals inside the fixture. Refer to the wiring diagram inside the fixture if available.
4. Secure all connections tightly.
5. Close the light fixture, ensuring it is properly sealed to maintain its IP44 rating.



Image: Internal view of the Maclean MCE33 wall light, showing the E27 lamp holder and wiring terminals.

4.3. Installing the LED Bulb

1. Carefully screw the provided 4W LED E27 bulb into the lamp holder.
2. Do not overtighten.



Image: Close-up of the 4W LED E27 bulb, highlighting its filament design.

5. OPERATING INSTRUCTIONS

5.1. Adjusting Sensor Settings

The Maclean MCE33 features two adjustable dials for customizing its operation:

- **LUX (Light Sensitivity) Dial:** This dial controls the ambient light level at which the motion sensor becomes active.
 - Turn towards the ***sun symbol*** (**2000 lux**) for the sensor to activate in brighter conditions (daytime).
 - Turn towards the ***moon symbol*** (**3 lux**) for the sensor to activate only in very dark conditions (nighttime).
- **TIME (Time Delay) Dial:** This dial sets how long the light remains on after motion is detected and no further motion is sensed.
 - Adjust from a minimum of **10 seconds** to a maximum of **5 minutes**.



Image: Close-up view of the LUX (light sensitivity) and TIME (time delay) adjustment dials located on the sensor.

5.2. Motion Detection

The integrated PIR motion detector has a 180° detection angle and a maximum range of 9 meters (at <24°C). The light will activate when motion is detected within this range, provided the ambient light level is below the set LUX threshold.

5.3. Dusk Sensor Functionality

The dusk sensor ensures energy efficiency by preventing the light from activating during daylight hours. The light will only turn on due to motion detection when the surrounding environment is dark enough, as determined by the LUX setting.

6. MAINTENANCE

- **Cleaning:** Clean the exterior of the light fixture periodically with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Bulb Replacement:** If the LED bulb needs replacement, ensure power is off. Unscrew the old E27 bulb and screw in a new E27 LED bulb (max 60W).
- **Sensor Area:** Keep the sensor lens clean and free from obstructions (e.g., dirt, spiderwebs) to ensure optimal performance.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power supply. LUX setting too high (daylight). No motion detected. Faulty bulb.	Check power connection and circuit breaker. Adjust LUX dial towards the moon symbol. Test motion in detection area. Replace bulb.
Light stays on continuously.	Continuous motion in detection area. TIME setting too long. Sensor malfunction.	Remove obstructions or reposition light. Adjust TIME dial to a shorter duration. Contact customer support.
Light turns on during the day.	LUX setting too low (towards moon symbol).	Adjust LUX dial towards the sun symbol.
Detection range is poor.	Incorrect mounting height. Obstructions in detection path. Temperature too high (reduces PIR effectiveness).	Ensure mounting height is 1.8-2m. Clear obstructions. Note that PIR performance can be affected by ambient temperature.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	MCE33W/MCE266
Power Supply	110-240 V/AC
Frequency	50/60 Hz
Detection Range	180°
Max Detection Distance	9 m (<24°C)
Light Sensitivity (LUX)	Adjustable 3 - 2000 lux
Time Delay (TIME)	Adjustable 10 sec - 5 min
Operating Temperature	-20°C to +40°C

Feature	Specification
Operating Humidity	<93% RH
Installation Height	1.8 - 2 m
Rated Load (Max)	60W (E27)
Motion Detection Speed	0.6 - 1.5 m/s
Protection Rating	IP44
Included Bulb Type	LED E27, 4W, 3000K (Warm White)
Luminous Flux	470 lm
Product Dimensions (L x W x H)	11 x 19 x 27 cm
Material	Plastic

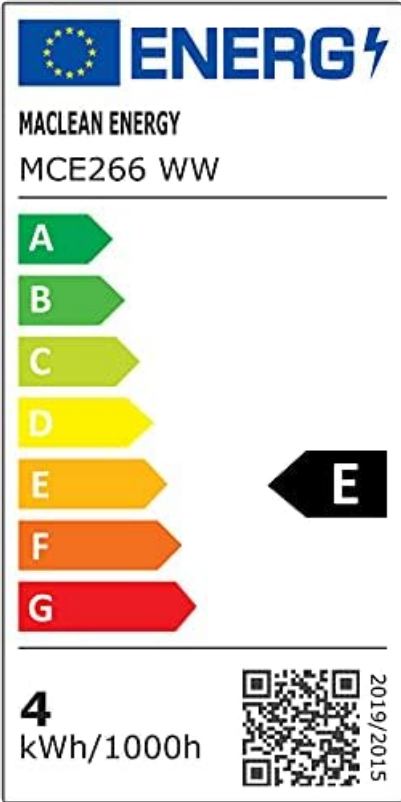


Image: Energy label for the included LED bulb. For more details, visit eprel.ec.europa.eu/qr/671447.

9. WARRANTY AND SUPPORT

Maclean products are designed for quality and reliability. For warranty information, technical support, or service inquiries, please refer to the contact details provided with your purchase or visit the official Maclean brand store. You can find more information about Maclean products and support at the official brand store [Maclean Brand Store](#).

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