

CLY FLB010

CLY 10W LED Motion Sensor Floodlight User Manual

Model: FLB010 | Brand: CLY

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient installation, operation, and maintenance of your CLY 10W LED Motion Sensor Floodlight. Designed for outdoor use, this floodlight offers bright, energy-efficient illumination with intelligent motion detection capabilities.

2. SAFETY INSTRUCTIONS

- Always disconnect power before attempting any installation, maintenance, or repair.
- Ensure proper grounding to prevent electrical shock.
- Installation should be performed by a qualified electrician if you are unsure about electrical wiring.
- Do not look directly into the LED light source when it is illuminated, as this may cause eye strain or damage.
- The product is rated IP66 for outdoor use, meaning it is protected against dust and powerful water jets. However, avoid submerging the unit in water.
- Keep children away from the product during installation and operation.

3. PACKAGE CONTENTS

Please check the package to ensure all components are present:

- 1 x CLY 10W LED Motion Sensor Floodlight
- 1 x Set of Mounting Screws and Accessories
- 1 x User Manual

4. PRODUCT FEATURES

- **High Brightness:** 10W LED with 850 lumens output.
- **Color Temperature:** 6500K Cool White light.
- **Motion Sensor:** 180° sensing angle with a detection distance of up to 12 meters (39 feet).
- **Adjustable Settings:** Customizable lighting duration (10s, 45s, 120s, 600s) and operating mode (24 hours / night only).
- **Durable Design:** IP66 waterproof and dustproof rating, suitable for various outdoor weather conditions.
- **Efficient Heat Dissipation:** Robust aluminum alloy housing ensures optimal heat management and extended lifespan.
- **Wide Beam Angle:** 120° beam angle for broad illumination.

5. SETUP AND INSTALLATION

Follow these steps for proper installation:

1. **Choose Mounting Location:** Select a suitable outdoor location, ideally at a height of 2.5 to 3.5 meters (8.20 to 11.48 feet) for optimal motion detection and light coverage. Ensure the area is clear of obstructions that might block the sensor's view.
2. **Mark Drill Holes:** Use the floodlight's bracket as a template to mark the positions for drilling on the mounting surface.
3. **Drill Holes:** Drill holes at the marked positions. Insert wall plugs if necessary for secure mounting.
4. **Mount the Bracket:** Secure the floodlight's bracket to the mounting surface using the provided screws.
5. **Wiring:** Connect the floodlight's electrical wires to your main power supply. Ensure correct connections for Live (L), Neutral (N), and Ground (GND). Always consult local electrical codes and ensure power is off during wiring.
6. **Adjust Angle:** Once mounted, adjust the angle of the floodlight and the motion sensor to cover the desired area. The sensor has a 180° sensing angle and can be rotated for optimal coverage.



180°

Sensing Angle: 180°

Lighting time setting:
10s/45s/120s/600s

Turn on Induction setting:

Sensing just at night/
Sensing at the day&night

Figure 5.1: Ideal mounting height (2.5-3.5m) and maximum detection range (12m).

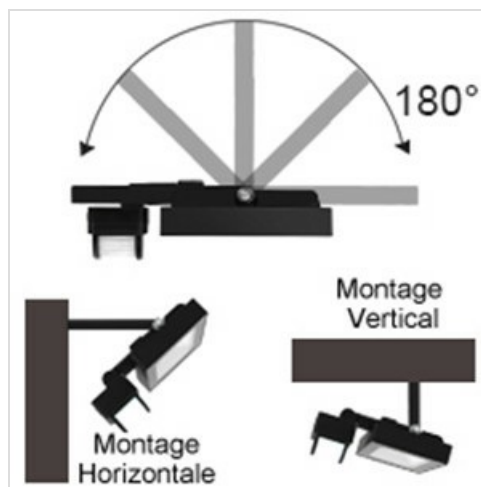


Figure 5.2: The adjustable bracket allows for flexible horizontal and vertical mounting.

6. OPERATING INSTRUCTIONS

The CLY LED Motion Sensor Floodlight features adjustable settings for its PIR sensor:

6.1. Lighting Time Setting (TIME)

This knob controls how long the light stays on after motion is detected. Rotate the knob to select the desired duration:

- **10S:** Light stays on for approximately 10 seconds.
- **45S:** Light stays on for approximately 45 seconds.
- **120S:** Light stays on for approximately 120 seconds (2 minutes).
- **600S:** Light stays on for approximately 600 seconds (10 minutes).

6.2. Operating Mode Setting (LUX)

This knob determines when the motion sensor will activate the light. Rotate the knob to choose between:

- **Sun Icon (24 hours):** The sensor will detect motion and activate the light both during the day and at night.
- **Moon Icon (Night Only):** The sensor will only detect motion and activate the light when ambient light levels are low (i.e., at night).



Figure 6.1: Detailed view of the TIME and LUX adjustment knobs on the motion sensor.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your floodlight:

- **Cleaning:** Periodically wipe the floodlight and sensor lens with a soft, damp cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check for any signs of damage to the housing, wiring, or mounting bracket. Ensure all connections are secure.
- **Weather Protection:** While the unit is IP66 rated, ensuring proper drainage around the installation area can further protect it from prolonged exposure to standing water.

8. TROUBLESHOOTING

If you encounter issues with your CLY LED Motion Sensor Floodlight, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on.	No power supply. LUX setting is incorrect. Sensor is blocked.	Check power connection and circuit breaker. Adjust LUX knob to 'Sun' icon for 24-hour detection or ensure it's dark enough for 'Moon' icon setting. Clear any obstructions from the sensor's view.
Light stays on continuously.	TIME setting is too long. Continuous motion detected. Wiring error.	Adjust TIME knob to a shorter duration. Ensure no constant motion is within the sensor's range. Verify wiring connections are correct.
Light flashes or flickers.	Unstable power supply. Loose wiring connection.	Check power source stability. Inspect and secure all wiring connections.
Motion sensor not detecting.	Sensor angle incorrect. Detection distance too far. Temperature interference.	Adjust the sensor head to cover the desired area. Ensure objects are within the 12-meter detection range. Extreme temperatures can affect sensor performance.

If the problem persists after attempting these solutions, please contact CLY customer service for further assistance.

9. SPECIFICATIONS

Feature	Specification
Model Number	FLB010
Power	10W

Feature	Specification
Luminous Flux	850 lumens
Color Temperature	6500K (Cool White)
IP Rating	IP66
Sensing Angle	180°
Detection Distance	Up to 12 meters (39 feet)
Lighting Time Settings	10s, 45s, 120s, 600s
Operating Mode Settings	Day & Night / Night Only
Material	Aluminum
Product Dimensions (L x W x H)	11.9 x 3 x 15 cm
Product Weight	430 grams
Power Source	Corded Electric
Assembly Required	Yes
Batteries Required	No



Figure 9.1: Product dimensions (119mm x 150mm x 30mm).

10. WARRANTY AND CUSTOMER SUPPORT

CLY offers a **2-year replacement service** for this product.

If you encounter any issues or have questions regarding your CLY 10W LED Motion Sensor Floodlight, please do not hesitate to contact our customer service team. You can reach us via Amazon or through the service email provided in the product packaging. We aim to respond to all inquiries within 24 hours and are always ready to assist you.