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> Westgate Lighting LED Outdoor Motion Sensor Instruction Manual

Westgate ec80a918-4949-4a1d-81e0-21bc5ec2a857

Instruction Manual

WESTGATE LIGHTING LED OUTDOOR MOTION SENSOR

Model: ec80a918-4949-4a1d-81e0-21bc5ec2a857 (SL-PIR-WH)

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Westgate Lighting LED Outdoor Motion Sensor. This accessory is designed to enhance the functionality of outdoor lighting fixtures by providing automatic light activation based on motion detection, ideal for security and convenience.



Image: Side view of the Westgate LED Outdoor Motion Sensor, showcasing its compact design and durable polycarbonate construction.

Safety Information

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result

in electric shock, fire, or other hazards.

- Always disconnect power at the circuit breaker before installing or servicing the unit.
- Installation should be performed by a qualified electrician or trained personnel in accordance with all local and national electrical codes.
- Do not install if the product is damaged. Inspect the unit for any damage prior to installation.
- This product is designed for outdoor use only. Ensure all connections are properly sealed to prevent water ingress.
- Do not exceed the maximum load rating of 200W.

## Package Contents

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Verify that all components are present before beginning installation:

- Westgate LED Outdoor Motion Sensor Unit (1)
- Mounting Hardware (Screws, Wire Nuts, Gasket) (1 set)

## Setup and Installation

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Follow these steps for proper installation of your motion sensor:

1. **Prepare the Installation Area:** Ensure power is OFF at the circuit breaker. Choose a mounting location that provides an unobstructed view of the area to be monitored. The sensor features 1/2 NPT threads for easy integration with standard outdoor light fixtures or junction boxes.
2. **Mount the Sensor:** Thread the sensor's 1/2 NPT connection into the desired fixture or junction box. Ensure it is securely tightened to prevent movement and maintain weather resistance.



Image: Close-up view of the motion sensor's 1/2 NPT threads, designed for secure attachment to compatible fixtures or conduit.

3. **Wiring Connections:** Connect the sensor's wires to your lighting fixture and power supply according to the wiring diagram provided with your lighting fixture or by a qualified electrician. Typically, this involves connecting the Line (Hot), Load (to light), and Neutral wires. Ensure all connections are secure and insulated with wire nuts.
4. **Seal and Secure:** After wiring, ensure all openings are properly sealed to prevent moisture entry. Position the sensor head to cover the desired detection area.
5. **Restore Power:** Once installation is complete and all connections are secure, restore power at the circuit breaker.

## Operating Instructions

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The motion sensor features adjustable settings for optimal performance:





Image: Bottom view of the motion sensor, showing the "SENSITIVITY" and "TIMER" adjustment dials for customizing detection and light duration.

- **Sensitivity Adjustment:** Use the "SENSITIVITY" dial to adjust the detection range. Turning the dial clockwise increases sensitivity and detection range (up to 70 feet), while turning it counter-clockwise decreases it. Start with a medium setting and adjust as needed to avoid false triggers.
- **Timer Adjustment:** Use the "TIMER" dial to set how long the light remains on after motion is detected and stops. The delay can be adjusted up to 300 seconds (5 minutes). Turn clockwise for longer durations, counter-clockwise for shorter durations.
- **Test Mode:** For initial setup and aiming, set the "TIMER" dial to the "TEST" position. In this mode, the light will turn on for a few seconds each time motion is detected, regardless of ambient light levels. This allows you to walk through the detection area and confirm coverage.
- **Auto Mode:** Once testing is complete, set the "TIMER" dial to your desired duration. The sensor will now operate in auto mode, activating the light only when motion is detected and ambient light levels are low enough (dusk to dawn operation).
- **Manual Override:** This sensor supports a manual override feature. To activate, quickly flip the power switch (connected to the sensor) OFF and ON within 3 seconds. The light will then stay on continuously. To return to auto mode, flip the power switch OFF and ON again within 3 seconds, or the sensor will automatically reset to auto mode after 8 hours.

## Maintenance

The Westgate motion sensor requires minimal maintenance:

- **Cleaning:** Periodically wipe the sensor lens with a soft, damp cloth to remove dust, dirt, or debris that may obstruct its view. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect the wiring and mounting for any signs of wear, damage, or loose connections. Ensure the sensor is still securely mounted.

## Troubleshooting

If your motion sensor is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	No power to the sensor. Sensor sensitivity set too low. Ambient light is too high (daylight). Obstruction in sensor's field of view. Faulty wiring.	Check circuit breaker and wiring connections. Increase sensitivity using the "SENSITIVITY" dial. Wait until dusk or test in a darker environment. Clear any obstructions (e.g., branches, decorations). Verify wiring connections are correct and secure.
Light stays on continuously.	Sensor is in manual override mode. Constant motion in detection area. Timer setting is too long. Faulty sensor.	Flip power switch OFF and ON within 3 seconds to reset to auto mode. Adjust sensor angle or sensitivity to exclude unwanted motion sources. Decrease timer duration using the "TIMER" dial. Contact customer support if other solutions fail.
Light turns on and off rapidly.	Interference from heat sources (e.g., vents, reflective surfaces). Sensor is too sensitive.	Relocate sensor or adjust its angle to avoid interference. Decrease sensitivity using the "SENSITIVITY" dial.

## Specifications

Model Number	ec80a918-4949-4a1d-81e0-21bc5ec2a857 (SL-PIR-WH)
Input Power	120VAC, 60Hz
Max Load Rating	200W
Construction Material	Polycarbonate
Color	White
Thread Type	1/2 NPT
Detection Angle	180 degrees
Detection Range	Up to 70 feet
Shut-off Delay	Adjustable up to 300 seconds
Auto Reset	8-hour auto reset or manual override by flipping switch within 3 seconds
Indoor/Outdoor Usage	Outdoor use only

## Warranty and Support

This Westgate Lighting product is covered by a manufacturer's warranty. For specific warranty terms and conditions,

please refer to the documentation included with your purchase or visit the official Westgate website.  
For technical support, troubleshooting assistance, or warranty claims, please contact Westgate customer service:

- **Website:** [www.westgatemfg.com](http://www.westgatemfg.com) *(Note: This is a placeholder URL, please refer to actual product documentation for correct contact information.)*
- **Phone:** Refer to manufacturer's website or product packaging.

Please have your model number (SL-PIR-WH or ec80a918-4949-4a1d-81e0-21bc5ec2a857) and date of purchase ready when contacting support.

