SEBSON IR_OUT_IA

SEBSON Outdoor Motion Detector IR_OUT_IA User Manual

Model: IR_OUT_IA | Brand: SEBSON

1. INTRODUCTION

Thank you for choosing the SEBSON Outdoor Motion Detector. This device is designed for reliable outdoor use, featuring an IP65 rating for weather resistance and a 240° infrared sensor. It is programmable for ignition duration, ambient brightness, and detection range, making it suitable for various lighting applications with both incandescent and LED bulbs. This manual provides essential information for safe installation, operation, and maintenance of your motion detector.

| 8-14m and 240° | LED up to 1,000W | IP65 |
| 10sec - 15min | 3-2,000LUX | 230V |

Image 1: Front view of the SEBSON Outdoor Motion Detector, showcasing its compact design and sensor lens.

2. Safety Instructions

Please read these safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Electrical Installation:** Installation must be carried out by a qualified electrician in accordance with local wiring regulations.
- **Power Disconnection:** Always disconnect the main power supply before performing any installation, maintenance, or repair work.
- **Voltage:** Ensure the supply voltage matches the detector's specified voltage (230 Volts).
- **Outdoor Use:** The device is IP65 rated for outdoor use, protecting against dust and water jets. Ensure all connections are properly sealed.
- **Mounting:** Mount the detector securely on a stable wall surface.
- **Children:** Keep packaging materials and small parts away from children.

3. Product Overview

The SEBSON Outdoor Motion Detector features three adjustable dials for precise control over its operation:

- **LUX:** Adjusts the ambient brightness threshold (3-2000 LUX) at which the detector activates.
- **SENS:** Controls the detection range (8-14 meters).

- **TIME:** Sets the duration (10 seconds to 15 minutes) for which the connected light remains on after motion is detected.

Detection Range (8-14m/240°)

Switch-on Sensitivity (3-2,000LUX)

Light Duration (10sec - 15min)

Image 2: Close-up view of the three adjustment dials (LUX, SENS, TIME) located on the underside of the motion detector.

4. SETUP AND INSTALLATION

4.1 Mounting the Detector

The motion detector is designed for wall surface mounting. Choose a stable location that provides the desired

detection coverage and is within the recommended mounting height.

1. Disconnect the main power supply before starting installation.
2. Separate the mounting base from the main unit.
3. Mark the drilling points on the wall using the mounting base as a template.
4. Drill holes and insert appropriate wall plugs (if necessary).
5. Secure the mounting base to the wall using screws. Ensure the 'UP' arrow on the base points upwards.

Image 3: Rear view of the mounting base, showing the 'UP' indicator and screw holes for wall attachment.
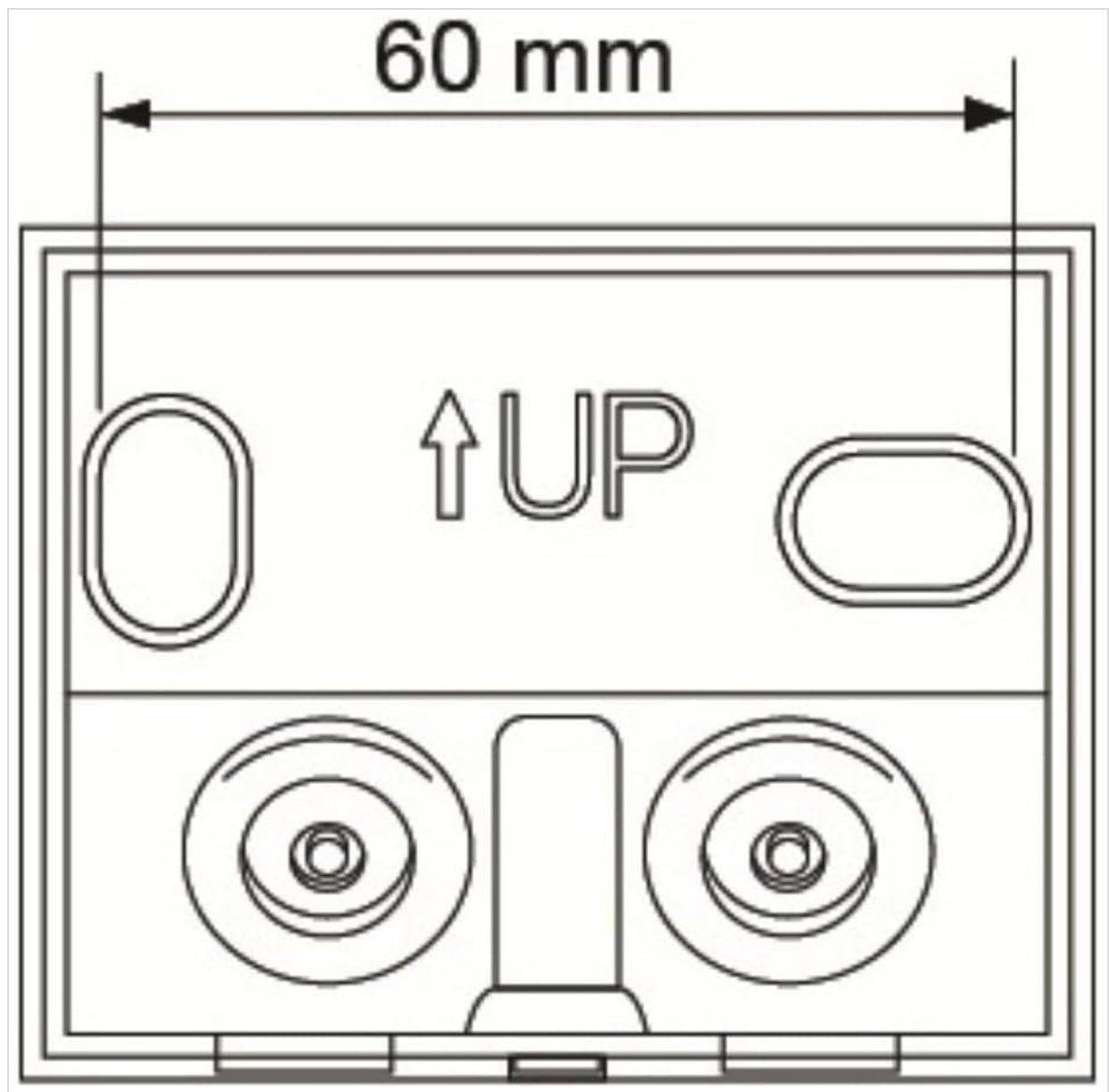
Image 4: Diagram illustrating the width of the mounting plate, which is 60 mm.

4.2 Wiring

This motion detector uses a 3-wire connection. Ensure all wiring is done with the power supply disconnected.

- Connect the Live (L) wire from the power supply to the 'L' terminal on the detector.
- Connect the Neutral (N) wire from the power supply to the 'N' terminal on the detector.
- Connect the Switched Live (L') wire from the detector to the Live terminal of your light fixture.
- Connect the Neutral wire from the power supply to the Neutral terminal of your light fixture.
- Ensure all connections are tight and properly insulated.

4.3 Placement Considerations

Optimal performance depends on correct placement:

- **Mounting Height:** The recommended mounting height is between 1.80 meters and 2.50 meters for optimal detection.
- **Detection Area:** The sensor has a 240° detection angle and a range of 8-14 meters. Position it to cover the desired area without unnecessary triggers.
- **Avoid Obstructions:** Do not mount the detector near large objects, trees, or walls that could obstruct the detection field.

- **Environmental Factors:** Avoid mounting near direct sunlight, heat sources (e.g., vents, outdoor units), or areas with constant movement (e.g., busy roads) to prevent false triggers.
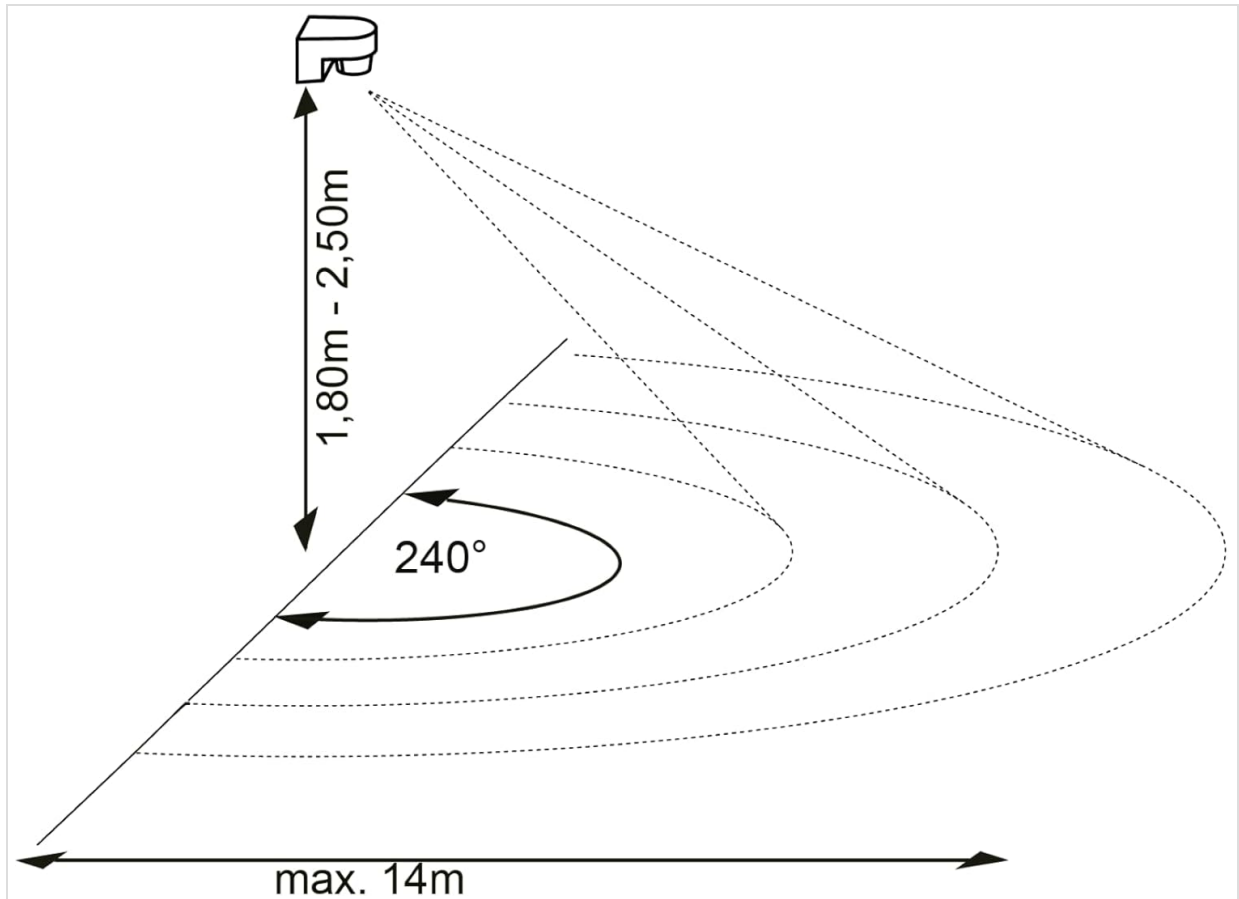

Image 5: Detection area diagram, showing the 240° angle, maximum 14m range, and recommended mounting height of 1.80m to 2.50m.
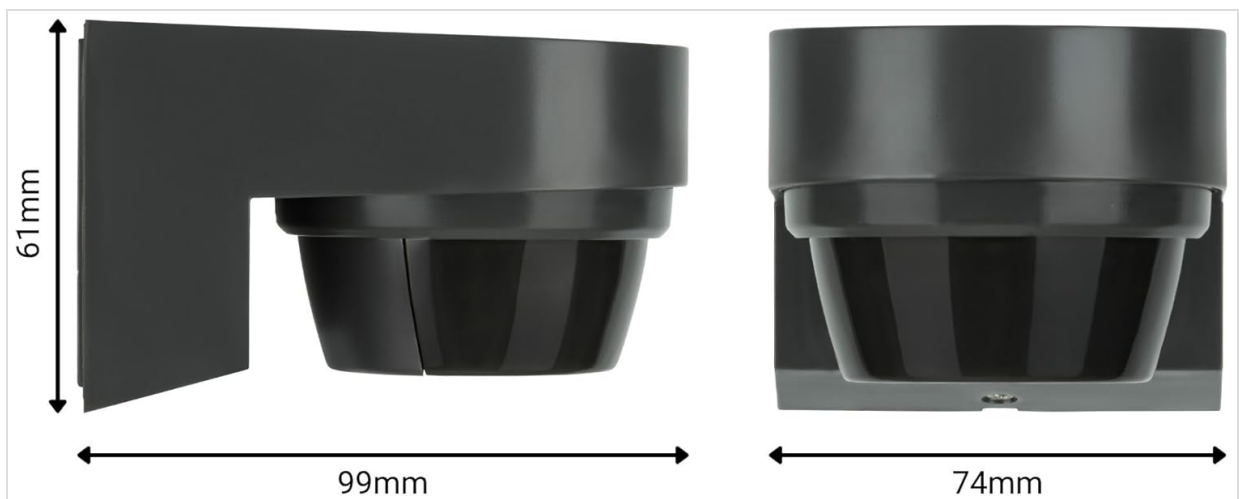

Image 6: Side view dimensions of the motion detector, indicating a length of 99mm and a height of 61mm.

5. OPERATING INSTRUCTIONS

After installation, restore power and adjust the settings using the three dials on the underside of the detector (refer to Image 2).

- **LUX (Ambient Brightness):** Turn the dial towards the 'sun' symbol for activation in brighter conditions (up to 2000 LUX) or towards the 'moon' symbol for activation only in darker conditions (down to 3 LUX).
- **TIME (Ignition Duration):** Rotate the dial to set how long the light remains on after motion is detected. Settings range from 10 seconds to 15 minutes.

- **SENS (Detection Range):** Adjust this dial to control the sensitivity and effective detection distance, from 8 meters to 14 meters. Test different settings to find the optimal range for your environment.

Testing: It is recommended to test the detector's settings during both day and night to ensure it operates as desired. You can set the LUX to maximum (sun symbol) for daytime testing of range and time duration, then adjust it to the desired ambient light level for normal operation.

6. MAINTENANCE

The SEBSON Outdoor Motion Detector requires minimal maintenance.

- **Cleaning:** Periodically wipe the sensor lens and housing with a soft, damp cloth to remove dust and dirt. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check the detector for any signs of damage, loose connections, or wear.
- **Obstructions:** Ensure no new obstructions (e.g., growing plants, debris) are blocking the sensor's field of view.

7. TROUBLESHOOTING

If you experience issues with your motion detector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	- Incorrect LUX setting (too high). - No power supply. - Faulty bulb/fixture. - Sensor obstructed.	- Adjust LUX setting towards 'moon' symbol. - Check power connections and circuit breaker. - Test light fixture with another power source. - Clear any obstructions from the sensor.
Light stays on constantly.	- Continuous motion in detection area. - TIME setting too long. - Wiring error.	- Reduce SENS setting or reposition detector. - Adjust TIME setting to a shorter duration. - Verify wiring connections.
Light turns on without apparent motion.	- High sensitivity (SENS). - Environmental factors (wind, heat, small animals). - Sensor picking up distant movement.	- Reduce SENS setting. - Reposition detector to avoid heat sources or busy areas. - Adjust the angle of the sensor head.
Detection range is too short/long.	- SENS setting incorrect. - Mounting height incorrect.	- Adjust SENS setting. - Verify mounting height is between 1.80m and 2.50m.

If the problem persists after trying these solutions, please contact customer support or a qualified electrician.

8. Specifications

Technical specifications for the SEBSON Outdoor Motion Detector IR_OUT_IA:

Feature	Specification
Brand	SEBSON
Model Number	IR_OUT_IA
Power Source	Corded Electric
Voltage	230 Volts
Item Weight	164 Grams (approx. 5.8 ounces)
Product Dimensions	3.9 x 2.91 x 2.4 inches (approx. 99 x 74 x 61 mm)
Maximum Range	14 Meters
Detection Angle	240°
LUX Adjustment Range	3 - 2000 LUX
Time Delay Adjustment	10 seconds - 15 minutes
IP Rating	IP65
Max Load (Incandescent)	2000W
Max Load (LED)	1000W
Mounting Type	Wall Mount
Compatible Devices	Light, Security System, Smart Home Hub
Recommended Uses	Garden, Driveway, Garage

9. Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your purchase or contact your retailer. Keep your proof of purchase for any warranty claims.