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SEBSON IR_OUT_A

SEBSON Outdoor Motion Detector IR_OUT_A User Manual

Model: IR_OUT_A | Brand: SEBSON

1. INTRODUCTION

The SEBSON Outdoor Motion Detector (Model IR_OUT_A) is designed for automatic lighting control in outdoor areas. It features an infrared sensor to detect movement and activate connected lights, enhancing security and convenience. This manual provides essential information for safe installation, operation, and maintenance of your device.



Image 1.1: SEBSON Outdoor Motion Detector (Model IR_OUT_A)

2. SAFETY INSTRUCTIONS

- **WARNING:** Electrical installation should only be performed by a qualified electrician. Incorrect installation can lead to electric shock or fire.
- Always disconnect the main power supply before attempting any installation, wiring, or maintenance work on the device.
- Ensure proper grounding of the device according to local electrical codes.
- Do not exceed the maximum load ratings specified for incandescent (800W) or LED/energy-saving lamps (400W).
- This device is rated IP44 for outdoor use, providing protection against splashing water. However, avoid direct exposure to strong jets of water or submersion.
- Do not open or modify the device. There are no user-serviceable parts inside.

3. PRODUCT OVERVIEW AND FEATURES

The SEBSON Outdoor Motion Detector is a reliable solution for automated outdoor lighting. Key features include:

- **Installation:** Designed for outdoor surface wall mounting.
- **Power Compatibility:** Supports up to 800W for incandescent bulbs and 400W for LED or other energy-saving lamps.
- **Detection Area:** Features a 12-meter range and a 180° detection angle.
- **Adjustable Sensor:** The sensor head can be adjusted 40° vertically and 100° horizontally for precise coverage.
- **Operating Duration (TIME):** Adjustable from 10 seconds to 15 minutes.
- **Ambient Brightness (LUX):** Adjustable threshold from 3 to 2000 lux for activation.
- **Wiring:** 3-wire connection for reliable operation.



Image 3.1: Key specifications of the motion detector.

4. SPECIFICATIONS

Manufacturer	SEBSON
Model Number	IR_OUT_A
Dimensions (L x W x H)	79 x 55.5 x 67.5 mm

Weight	100 Grams
Color	White
Material	Plastic
Power Type	Alternating Current (AC)
Voltage	230 Volts
Max. Power (LED)	400 Watts
Max. Power (Incandescent)	800 Watts
Installation Method	Wall Mount (Surface)
Bulb Type Compatibility	LED
Detection Range	12 meters / 180°
Special Features	Adjustable, Programmable, 3-wire
Usage Environment	Outdoor
Operating Temperature	Up to 40°C
IP Rating	IP44

5. SETUP (INSTALLATION)

Follow these steps for proper installation:

- 1. Preparation:** Ensure the main power supply to the installation area is switched off at the circuit breaker.
- 2. Mounting Location:** Choose a stable, flat surface for wall mounting. The recommended mounting height is between 1.80m and 2.50m for optimal detection performance.
- 3. Mounting the Base:** Use the provided screws and wall plugs to securely attach the detector's base to the wall. Ensure the base is level.



Image 5.1: Bottom view with mounting points.

4. **Wiring:** Connect the three electrical wires (Live, Neutral, Load) from your power supply and light fixture to the corresponding terminals on the motion detector. Refer to the wiring diagram provided with the product for exact connections. Ensure all connections are secure.
5. **Attach Detector Body:** Once wiring is complete, carefully attach the main body of the motion detector to its mounted base.
6. **Adjust Sensor Head:** The sensor head can be adjusted to cover the desired detection area. It can be tilted 40° vertically and rotated 100° horizontally. Adjust the sensor to avoid detecting unwanted movement (e.g., from public pathways or trees).



Image 5.2: Sensor head adjustment angles.

7. **Restore Power:** After completing all installation steps and ensuring all connections are secure, restore power to the circuit.

6. OPERATING INSTRUCTIONS

The motion detector features two adjustable dials for customization:

- **LUX (Ambient Brightness) Adjustment:**

This dial controls the ambient light level at which the detector becomes active.

- Turn the dial towards the '3' (moon symbol) setting for activation only in dark conditions (e.g., at night).
- Turn the dial towards the '2000' (sun symbol) setting for activation in brighter conditions (e.g., during the day or in twilight).

- **TIME (Operating Duration) Adjustment:**

This dial sets how long the connected light remains on after motion is detected and no further motion is sensed.

- Adjust the dial to set the duration from a minimum of 10 seconds to a maximum of 15 minutes.

Portée de Détection (12m/180°)

Sensibilité à l'Allumage (3-2.000LUX)

Durée d'Éclairage (10sec. - 15min.)



Image 6.1: LUX and TIME adjustment dials.

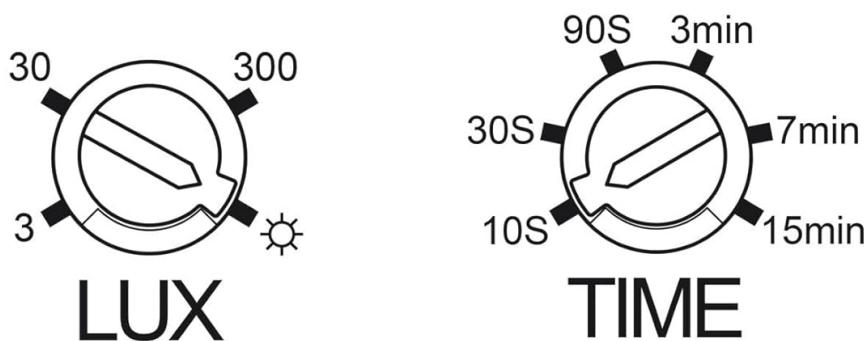
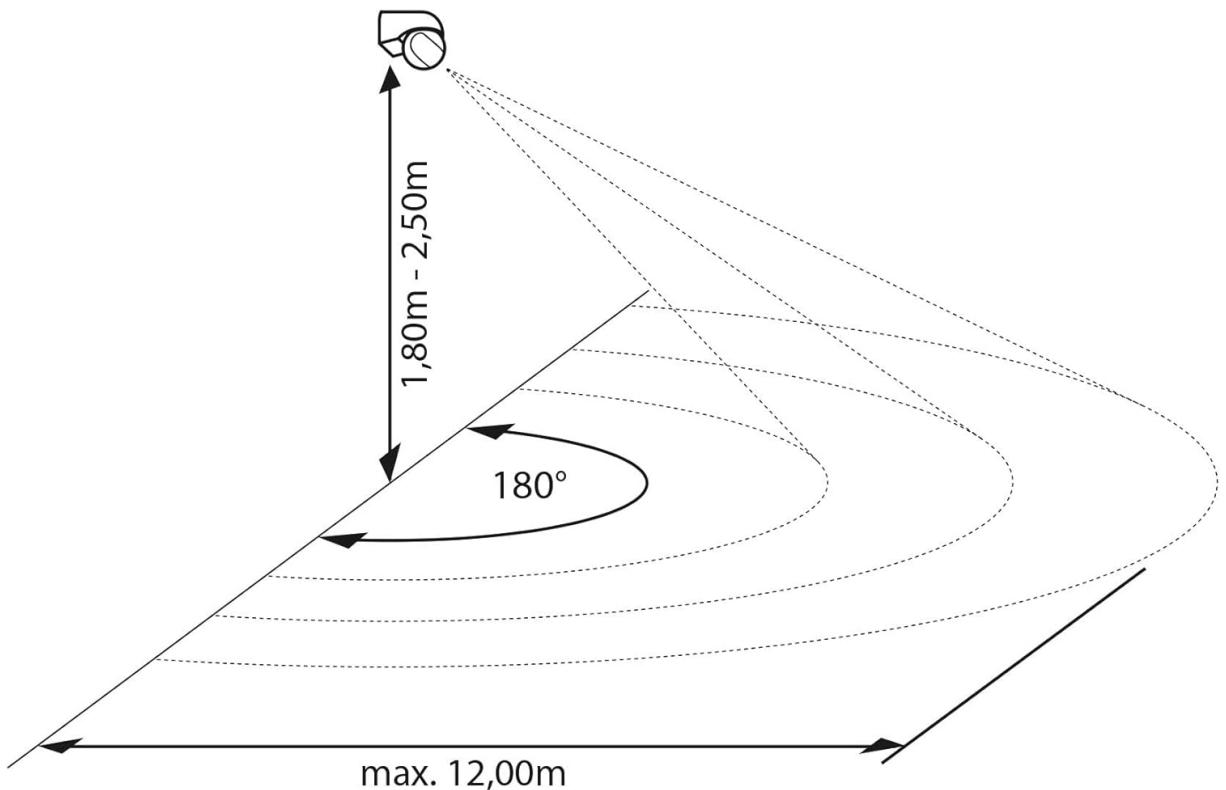


Image 6.2: Detection range and dial settings overview.

7. MAINTENANCE

To ensure optimal performance and longevity of your SEBSON motion detector, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the sensor lens and the device's exterior with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the plastic and sensor.
- **Inspection:** Periodically check the device for any signs of damage, loose connections, or wear. Ensure the mounting is still secure.
- **Obstructions:** Ensure that no new obstructions (e.g., growing plants, new installations) are blocking the sensor's field of view, which could affect its detection capability.
- **Power Disconnection:** Always disconnect power before performing any cleaning or inspection that requires touching electrical components.

8. TROUBLESHOOTING

If you encounter issues with your motion detector, refer to the following troubleshooting tips:

- **Light does not turn on when motion is detected:**

- Check if the main power supply is on.
- Verify all wiring connections are correct and secure.
- Adjust the 'LUX' setting. It might be set too high, preventing activation in current ambient light conditions. Try turning it towards the 'moon' symbol.
- Ensure there are no physical obstructions blocking the sensor's view.
- Test the connected light fixture independently to ensure the bulb is functional.

- **Light stays on continuously or turns on without motion:**

- Check the 'TIME' setting. If set to maximum, the light will stay on for a longer duration.
- Ensure there is no continuous motion within the detection area (e.g., swaying branches, pets).
- The 'LUX' setting might be too low, causing the detector to activate even in bright conditions. Adjust it towards the 'sun' symbol.
- Inspect for faulty wiring or a short circuit.

- **Detection range is poor or inconsistent:**

- Adjust the sensor head angle (vertical and horizontal) to optimize coverage.
- Ensure the mounting height is within the recommended range (1.80m - 2.50m).
- Clear any obstructions (e.g., dirt on the lens, plants, furniture) that might be interfering with the sensor.
- Extreme temperatures can sometimes affect sensor performance.

9. WARRANTY AND SUPPORT

SEBSON products are manufactured with quality and reliability in mind. While specific warranty details may vary by region and retailer, SEBSON typically offers a standard manufacturer's warranty against defects in materials and workmanship.

For technical support, warranty claims, or further assistance, please:

- Refer to the official SEBSON website for contact information and support resources.
- Contact the retailer from whom you purchased the product.
- Have your product model number (IR_OUT_A) and proof of purchase ready when contacting support.