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SEBSON IR_OUT_BA

SEBSON Outdoor Motion Detector IR_OUT_BA Instruction Manual

Model: IR_OUT_BA | Brand: SEBSON

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your SEBSON Outdoor Motion Detector (Model: IR_OUT_BA). Please read this manual thoroughly before installation and use to ensure safe and correct operation. Keep this manual for future reference.



Image 1.1: Front view of the SEBSON Outdoor Motion Detector.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the device:

- **Electrical Safety:** Installation and maintenance should only be performed by a qualified electrician. Always disconnect the main power supply before any installation, wiring, or maintenance work.
- **Voltage:** Ensure the operating voltage of 230V AC matches your electrical supply.
- **IP44 Rating:** This device is rated IP44, meaning it is protected against solid objects larger than 1mm and splashing water from any direction. It is suitable for outdoor use but must not be submerged in water.
- **Mounting:** Mount the device securely on a stable surface. Do not install near flammable materials or heat sources.
- **Children:** Keep packaging materials and small parts away from children.

3. PACKAGE CONTENTS

The package includes:

- 1x SEBSON Outdoor Motion Detector (Model: IR_OUT_BA)

4. PRODUCT OVERVIEW AND FEATURES

The SEBSON Outdoor Motion Detector is designed for reliable motion detection in outdoor environments. Key features include:

- **Detection Range:** Up to 12 meters with a 180° infrared sensor.
- **Adjustable Sensor Head:** Can be swiveled vertically by 300° for precise area coverage.
- **Adjustable Illumination Duration (TIME):** From 10 seconds to 7 minutes.
- **Adjustable Ambient Brightness (LUX):** Operates between 3 and 2000 lux, allowing for day and night operation settings.
- **LED Compatible:** Supports LED lamps and other energy-saving bulbs up to 300W, and incandescent bulbs up to 1200W.
- **Durable Design:** IP44 rated for outdoor use, anthracite color, made of plastic.



Image 4.1: Overview of key product features: 12m/180° detection, up to 300W LED, IP44 rating, 10 sec - 7 min duration, 3-2000 LUX sensitivity, 230V operation.

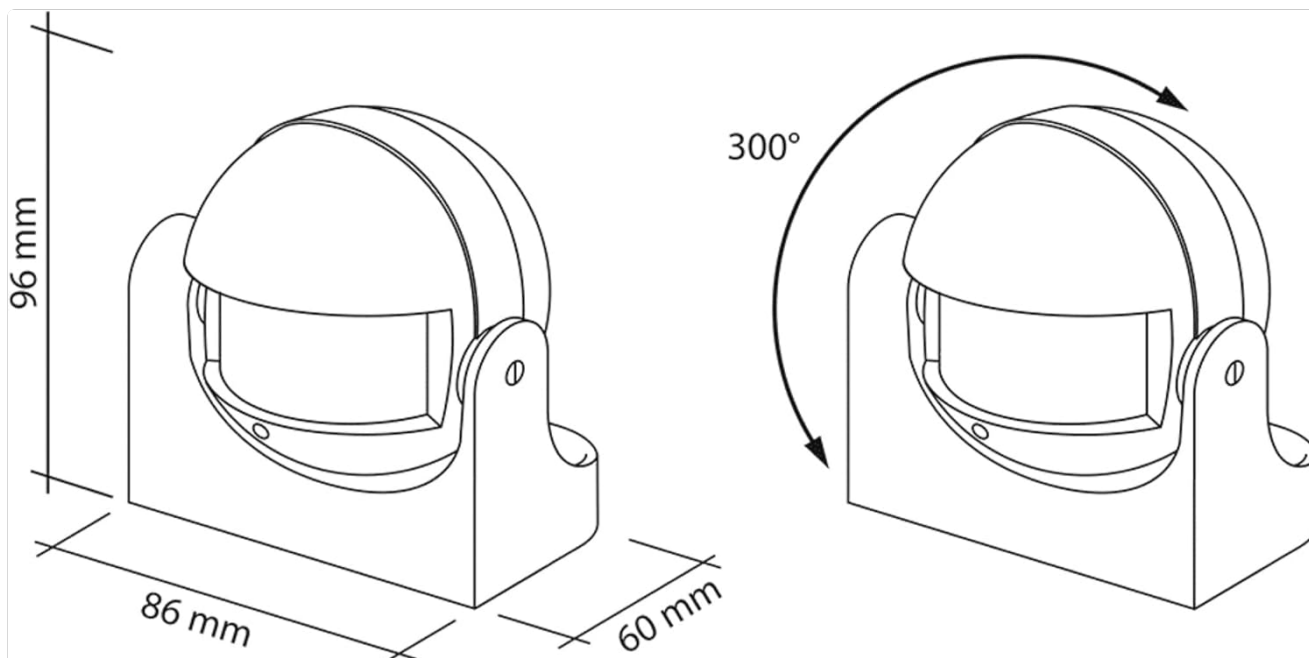


Image 4.2: Dimensions of the motion detector (96mm x 86mm x 60mm) and its 300° vertical swiveling capability.

5. SETUP AND INSTALLATION

Follow these steps for proper installation:

1. **Prepare for Installation:** Before starting, ensure the main power supply to the installation area is switched off at the circuit breaker.
2. **Choose Mounting Location:** Select a suitable outdoor wall for surface mounting. Consider the desired detection area and avoid locations directly exposed to strong sunlight, heat sources (e.g., vents), or rapidly changing temperatures, which can cause false triggers. The recommended mounting height is 1.8m - 2.5m.
3. **Mounting the Base:**
 - Carefully open the motion detector housing.
 - Use the base of the detector as a template to mark the drilling points on the wall.
 - Drill holes at the marked points. Insert appropriate wall plugs if necessary.
 - Secure the detector's base firmly to the wall using screws.
4. **Wiring Connections:** Connect the electrical wires to the terminal block inside the detector. This device requires a 3-wire connection.
 - Connect the Live wire (L) from the power supply.
 - Connect the Neutral wire (N) from the power supply.
 - Connect the Switched Live wire (L') to your light fixture.

Ensure all connections are secure and correctly insulated.



Image 5.1: Example wiring diagram. Ensure correct Live (L), Neutral (N), and Switched Live (L') connections.

5. **Close Housing:** Carefully close the detector housing, ensuring no wires are pinched.
6. **Restore Power:** Once installation is complete and all connections are secure, restore the main power supply.



Image 5.2: The motion detector installed on an exterior wall, demonstrating typical placement.

6. OPERATING INSTRUCTIONS AND ADJUSTMENTS

The motion detector features two adjustable dials for customizing its operation:

Portée de Détection (12m/180°)

Sensibilité à l'Allumage (3-2.000LUX)

Durée d'Éclairage (10sec. - 7min.)



Image 6.1: Close-up view of the 'TIME' and 'LUX' adjustment dials on the motion detector.

6.1. TIME Adjustment (Illumination Duration)

The 'TIME' dial controls how long the connected light remains on after motion is detected and no further motion is sensed. The duration can be set from approximately 10 seconds to 7 minutes.

- Turn the dial clockwise (+) for a longer illumination duration.
- Turn the dial counter-clockwise (-) for a shorter illumination duration.

6.2. LUX Adjustment (Ambient Brightness Sensitivity)

The 'LUX' dial determines the ambient light level at which the motion detector will activate. It can be set from 3 lux (dark) to 2000 lux (daylight).

- Turn the dial towards the **sun icon** for activation in brighter conditions (e.g., during the day).
- Turn the dial towards the **moon icon** for activation only in darker conditions (e.g., at night).

6.3. Adjusting the Sensor Head

The sensor head can be manually swiveled vertically by 300° to fine-tune the detection area. Adjust it to cover the desired zone and avoid areas where unwanted triggers might occur (e.g., public pathways, moving foliage).

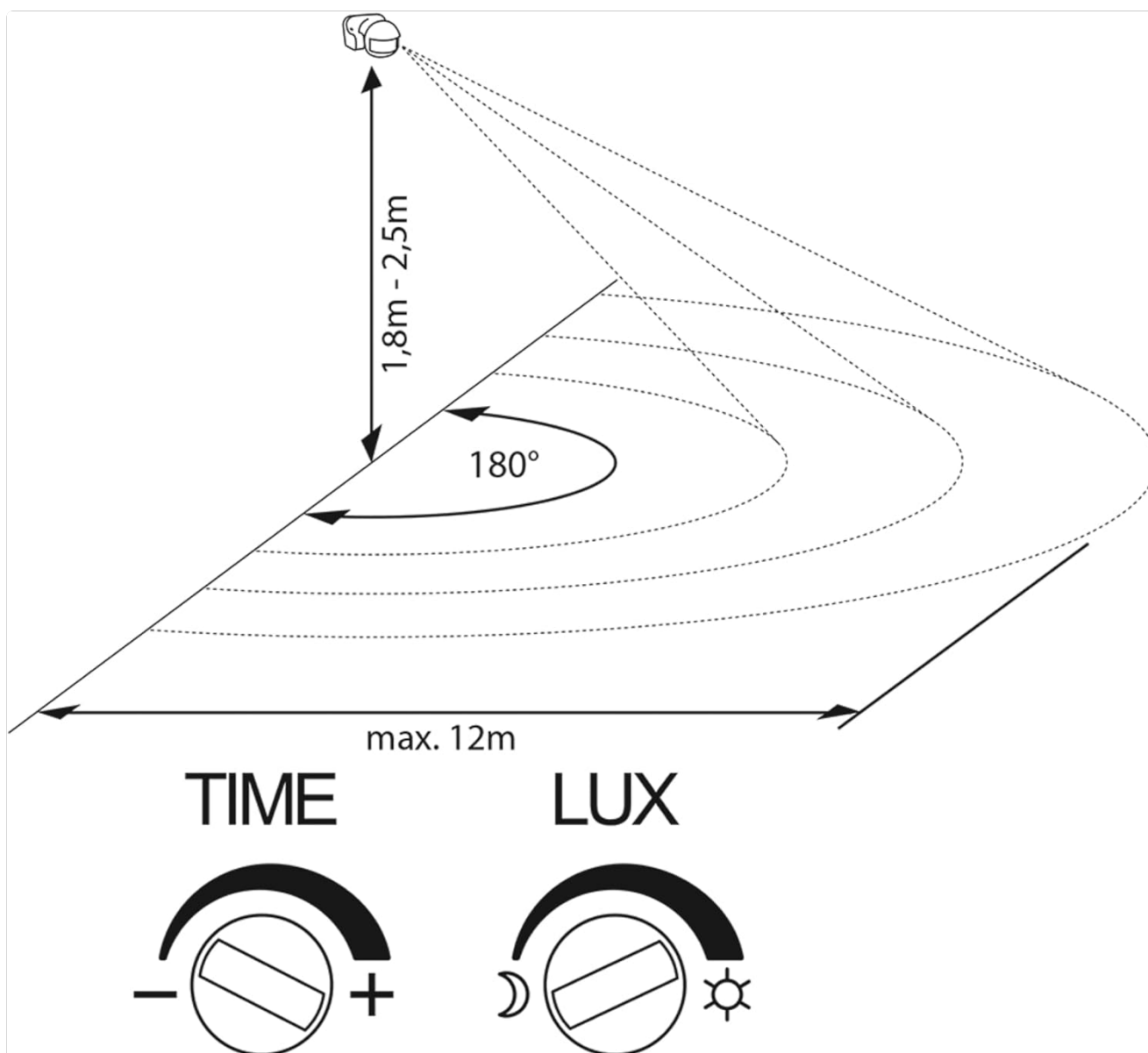


Image 6.2: Diagram illustrating the 180° detection range up to 12 meters and the function of TIME and LUX adjustment dials.

7. MAINTENANCE

To ensure optimal performance and longevity of your motion detector:

- **Cleaning:** Regularly clean the sensor lens and the outer casing with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the surface or the sensor.
- **Inspection:** Periodically check the mounting screws for tightness and ensure the housing remains securely closed. Inspect the wiring for any signs of wear or damage.
- **Environmental Factors:** Keep the detection area clear of obstructions like growing plants or debris that could interfere with the sensor's operation.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	<ul style="list-style-type: none"> • No power supply. • Incorrect wiring. • LUX setting too high (daylight mode). • Faulty bulb/fixture. • Motion outside detection range. 	<ul style="list-style-type: none"> • Check power supply at the circuit breaker. • Verify wiring connections (refer to Section 5). • Adjust LUX dial towards the moon icon. • Test light fixture with a known working bulb. • Adjust sensor head or move within range.
Light stays on continuously or turns on randomly.	<ul style="list-style-type: none"> • TIME setting too long. • Continuous motion in detection area. • False triggers (heat sources, strong wind, small animals). • Faulty sensor. 	<ul style="list-style-type: none"> • Adjust TIME dial to a shorter duration. • Ensure no constant movement or obstructions. • Reposition sensor to avoid heat sources or high-traffic areas. • If problem persists, contact customer support.
Detection range is poor or inconsistent.	<ul style="list-style-type: none"> • Sensor lens is dirty. • Obstructions in detection path. • Sensor head incorrectly aimed. • Extreme temperature changes. 	<ul style="list-style-type: none"> • Clean the sensor lens (refer to Section 7). • Remove any obstructions. • Adjust the sensor head angle. • Consider relocating the detector if environmental factors are severe.

If the problem persists after attempting these solutions, please contact SEBSON customer support.

9. SPECIFICATIONS

Feature	Specification
Manufacturer	SEBSON
Model Number	IR_OUT_BA
Product Dimensions (L x W x H)	8.6 x 6 x 9.6 cm
Weight	155 Grams

Feature	Specification
Color	Anthracite
Material	Plastic
Power Source	AC
Voltage	230 Volts
Max. Power (LED)	300 Watts
Max. Power (Incandescent)	1200 Watts
Installation Method	Wall Mount (Surface-Mounted)
Bulb Type Compatibility	LED
Detection Range	12m / 180°
Swiveling Angle	300° (vertical)
Illumination Duration (TIME)	10 seconds - 7 minutes
Ambient Brightness (LUX)	3 - 2000 lux
IP Rating	IP44
Recommended Uses	Outdoor
Upper Rated Temperature	40 Degrees Celsius
Country of Origin	China

10. WARRANTY AND SUPPORT

Return Policy: This product is eligible for returns within 30 days of purchase, in accordance with the retailer's return policy.

Customer Support: For technical assistance, troubleshooting, or any questions regarding your SEBSON motion detector, please contact SEBSON customer service directly through your purchase platform. Our team is dedicated to providing support and ensuring product quality.