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SEBSON IR_OUT_E

SEBSON Outdoor Motion Sensor User Manual

Model: IR_OUT_E

1. Introduction

This SEBSON outdoor motion sensor is designed for reliable motion detection in various outdoor environments. Featuring two infrared sensors, it offers enhanced detection capabilities for people, large animals, and vehicles. Its robust IP65 rating ensures durability against outdoor elements. The sensor is programmable for light duration and ambient brightness, making it a versatile solution for automated lighting control.

2. Key Features

- **Outdoor Use & IP65 Rating:** Designed for outdoor installation with high protection against dust and water jets.
- **Dual Infrared Sensors:** Equipped with two PIR sensors for improved detection coverage, including forward, backward, and directly below the sensor.
- **Wide Detection Range:** Detects motion up to 12 meters at a 180° angle and up to 3 meters at a 360° angle (on a free surface).
- **Adjustable Light Duration:** Programmable shut-off time from approximately 10 seconds to 15 minutes.
- **Adjustable Ambient Brightness (LUX):** Sensitivity to ambient light can be set between 3 and 2000 Lux, allowing operation only when needed (e.g., only at night).
- **Vertical Rotation:** The sensor head can be rotated 180° vertically to fine-tune the detection area.
- **High Load Capacity:** Supports up to 1200W for incandescent lamps and up to 600W for LED and energy-saving lamps.
- **Easy Installation:** Surface and wall mountable with 3-wire connection.

3. Product Specifications

Specification	Value
Operating Voltage	220-240V AC 50/60Hz
Max. Power Consumption (Incandescent)	1200W
Max. Power Consumption (LED/Energy-saving)	600W

Standby Power Consumption	0.5W
Detection Speed	0.6-1.5 m/s
Detection Range (180°)	Max. 12m (<24°C)
Detection Range (360°)	Max. 3m (<24°C)
Ambient Brightness (LUX)	3-2000 Lux
Protection Rating	IP65
Shut-off Time	Min. 10s (±3s) - Max. 15min (±2min)
Ambient Temperature	-20°C to +40°C
Humidity	<93%
Vertical Rotation	180°
Dimensions (L x W x H)	90 x 74 x 40 mm
Housing Material	Plastic
Model Number	IR_OUT_E

4. Setup and Installation

The SEBSON motion sensor is designed for surface and wall mounting. Ensure the power supply is disconnected before beginning installation.

4.1 Mounting Location

Choose a stable wall or surface for mounting. Consider the desired detection area and avoid obstructions. The sensor can be rotated 180° vertically to fine-tune the detection zone after mounting.

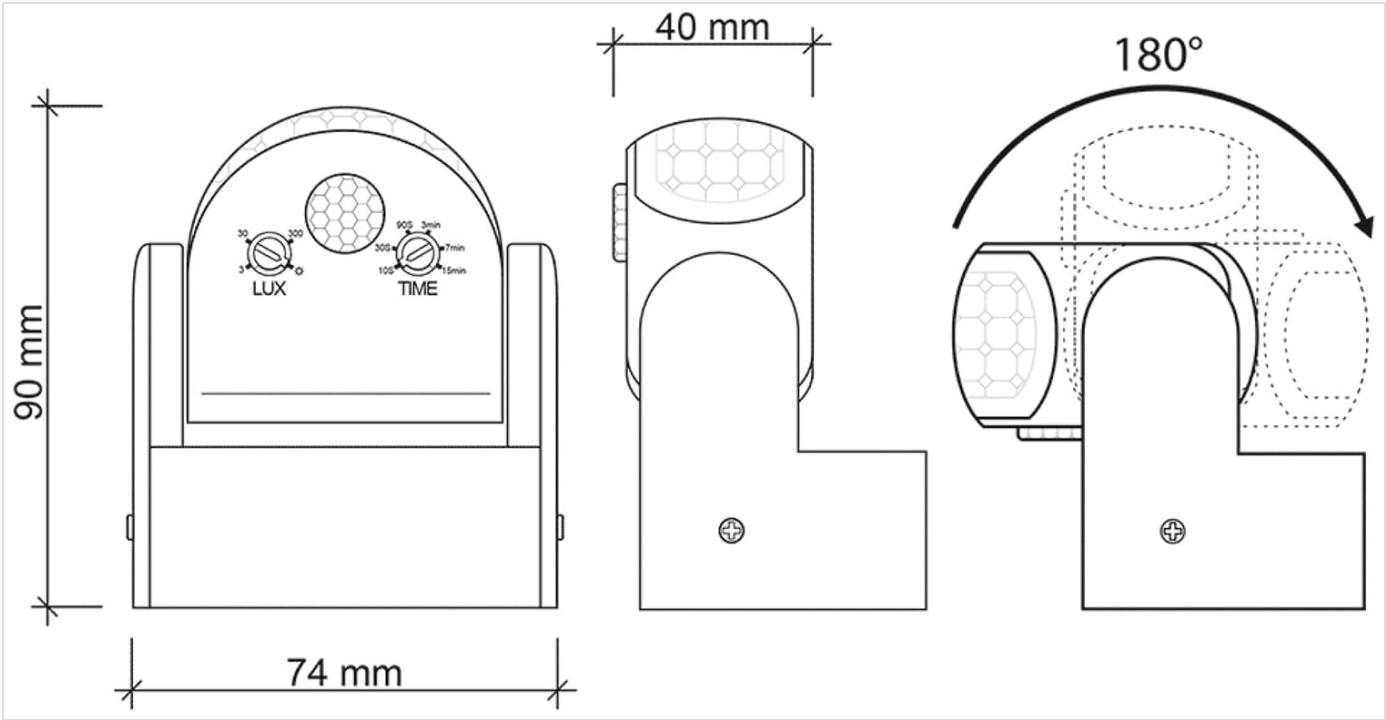


Image: Dimensional drawing showing the sensor's height (90mm), width (74mm), and depth (40mm), along with its 180-degree vertical rotation capability.

4.2 Wiring

This sensor requires a 3-wire connection (Live, Neutral, Switched Live to load). Consult a qualified electrician for wiring if you are unsure. Ensure all connections are secure and insulated.



Image: Rear view of the motion sensor, illustrating the mounting holes and the access point for electrical wiring.

5. Operating Instructions

Once installed and powered, the motion sensor will automatically detect movement and activate the connected lighting or device based on its settings.

5.1 Adjusting Settings (LUX and TIME)

The sensor features two adjustable dials for customizing its operation:

- **LUX (Ambient Brightness):** This dial controls the ambient light level at which the sensor becomes active.

- Turn towards the **sun icon** (**2000 Lux**) for the sensor to operate during both day and night.
- Turn towards the **moon icon** (**3 Lux**) for the sensor to operate only in low light conditions (e.g., at dusk or night).

- **TIME (Shut-off Duration):** This dial sets how long the connected light/device remains on after motion is detected and no further motion is sensed.
  - Adjust from a minimum of 10 seconds to a maximum of 15 minutes.

Detection Range (12m/180°; 3m/360°)

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

Light Duration (10sec - 15min)



Image: A detailed view of the two rotary dials on the sensor, labeled 'LUX' and 'TIME', used for adjusting ambient light sensitivity and the duration of activation.

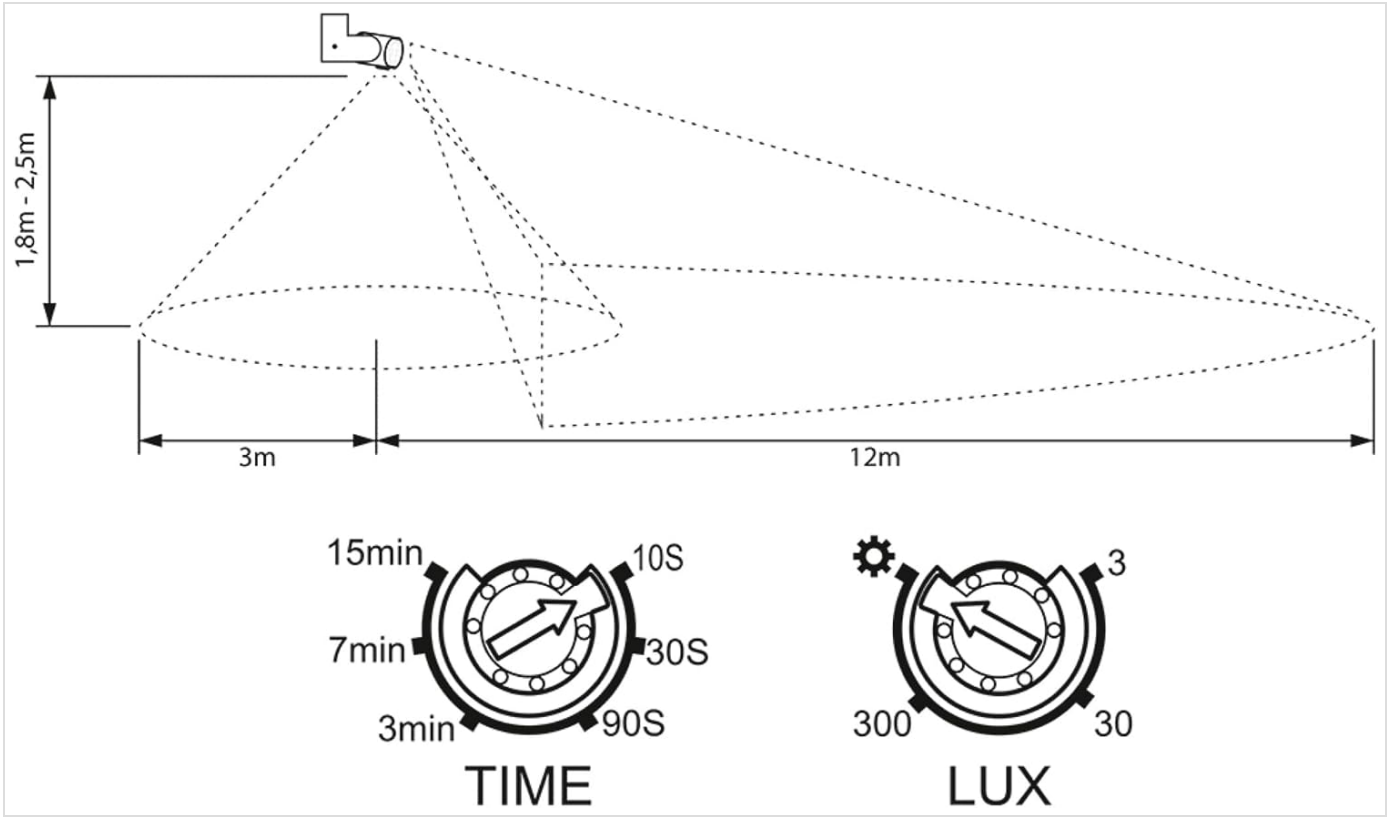


Image: Diagram illustrating the motion sensor's detection range (12m at 180 degrees, 3m at 360 degrees) and a visual representation of the TIME and LUX dial settings.

6. Maintenance

The SEBSON motion sensor is designed for low maintenance. Regular cleaning and inspection will ensure optimal performance.

- **Cleaning:** Gently wipe the sensor lens and housing with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the plastic and sensor components.
- **Inspection:** Periodically check the mounting for stability and ensure no debris (e.g., leaves, spiderwebs) is obstructing the sensor's view.
- **Wiring:** Ensure wiring connections remain secure and free from corrosion.

7. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	◦ Incorrect LUX setting (too high). ◦ No power to the sensor. ◦ Faulty wiring. ◦ Sensor obstructed.	◦ Adjust LUX dial towards the sun icon. ◦ Check power supply and circuit breaker. ◦ Verify wiring connections (consult electrician if needed). ◦ Clear any obstructions from the sensor's view.

Light stays on too long or turns on randomly.	◦ Incorrect TIME setting (too long). ◦ Sensor detecting unwanted motion (e.g., trees, animals). ◦ Sensor picking up heat sources (e.g., vents, direct sunlight).	◦ Adjust TIME dial to a shorter duration. ◦ Adjust the sensor's vertical angle to exclude unwanted areas. ◦ Relocate the sensor away from heat sources or reflective surfaces.
Detection range is shorter than expected.	◦ Sensor mounted too high or too low. ◦ Obstructions in the detection path. ◦ Ambient temperature is close to body temperature (reduces PIR effectiveness).	◦ Refer to mounting guidelines for optimal height. ◦ Clear obstructions. ◦ This is a characteristic of PIR sensors; consider alternative placement or additional sensors if this is a persistent issue in hot weather.

8. Warranty and Support

This product comes with a standard manufacturer's warranty. Please refer to your purchase documentation for specific warranty terms and duration. For technical support, troubleshooting assistance, or warranty claims, please contact SEBSON customer service through their official website or the retailer from whom you purchased the product.
Note: The product description mentions "Instruction manual (English language not guaranteed)". This manual provides general guidance. For detailed technical support, always refer to the official SEBSON support channels.

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