

SEBSON IR_WAL_F

SEBSON IR_WAL_F Outdoor Motion Detector Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your SEBSON IR_WAL_F Outdoor Motion Detector. This device is designed for flush wall mounting and is suitable for both outdoor and bathroom environments due to its IP65 rating. It features an infrared sensor to detect motion and automatically control connected lighting, offering adjustable detection range, light duration, and ambient light sensitivity.



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

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.

- Installation must be performed by a qualified electrician in accordance with local wiring regulations.
- Always disconnect the power supply at the main circuit breaker before performing any installation, maintenance, or repair work.
- Ensure proper grounding of the device.
- Do not exceed the maximum load ratings: 1200W for incandescent bulbs and 600W for LED or other energy-saving bulbs.
- The device is IP65 rated, providing protection against dust and water jets. It is suitable for outdoor use and in wet areas, but must not be submerged in water.
- Do not open or modify the device. There are no user-serviceable parts inside.

3. PRODUCT OVERVIEW

The SEBSON IR_WAL_F is an infrared motion detector designed for seamless integration into your wall. Its key features include:

- **Infrared Motion Sensor:** Detects movement based on heat radiation.
- **Flush Wall Mount Design:** For discreet and integrated installation.
- **Wide Detection Area:** Up to 10 meters range with a 190-degree angle.
- **Adjustable Light Duration:** Configurable from 10 seconds to 30 minutes, or permanent ON/OFF.
- **Adjustable Ambient Light Sensitivity:** Operates between 3 LUX (dark) and 2,000 LUX (daylight).
- **LED Compatibility:** Suitable for use with LED and incandescent light sources.
- **IP65 Rated:** Provides protection against dust ingress and low-pressure water jets from any direction.



Image 3.1: Overview of key features including detection range, LED compatibility, IP rating, light duration, LUX sensitivity, and voltage.



Image 3.2: Exploded view showing the main components of the motion detector.

4. SPECIFICATIONS

Feature	Specification
Manufacturer	SEBSON
Model Number	IR_WAL_F
Product Dimensions	8.6 x 8.6 x 6.3 cm
Installation Dimensions	53 x 53 x 23 mm
Weight	125 g
Color	White
Material	Plastic
Power Source	AC
Voltage	230 Volts

Feature	Specification
Max Power (Incandescent)	1200 Watts
Max Power (LED/Energy-saving)	600 Watts
Installation Method	Wall Mount (Flush)
Bulb Type Compatibility	LED
Detection Area	Max. 10m / 190°
Switch Type	Slide Switch
Special Features	LED compatible, IP65, Programmable, 190° detection, ON/OFF switch
Operating Temperature	40°C

5. INSTALLATION

Follow these steps for proper installation of the motion detector. It is recommended that installation be carried out by a qualified electrician.

5.1. Preparation

- Ensure the main power supply to the installation area is switched off at the circuit breaker.
- Prepare a standard flush-mount wall box (53x53x23mm minimum internal dimensions) at the desired installation height (recommended 1m - 1.8m for optimal detection).

5.2. Mounting and Wiring

1. Carefully remove the front cover of the motion detector to access the wiring terminals and mounting plate.
2. Connect the electrical wires to the terminals as shown in the wiring diagram below. Ensure correct connections for Live (L), Neutral (N), and Switched Live (L') to the light fixture.

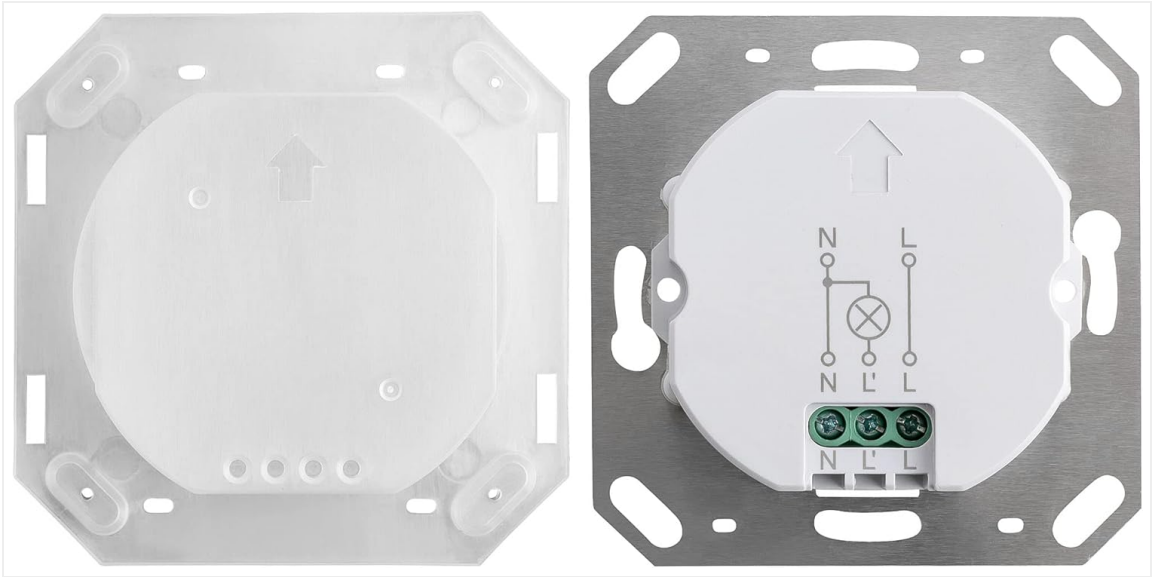


Image 5.1: Wiring diagram for the SEBSON IR_WAL_F motion detector.

- Secure the main sensor unit into the flush-mount wall box using appropriate screws.

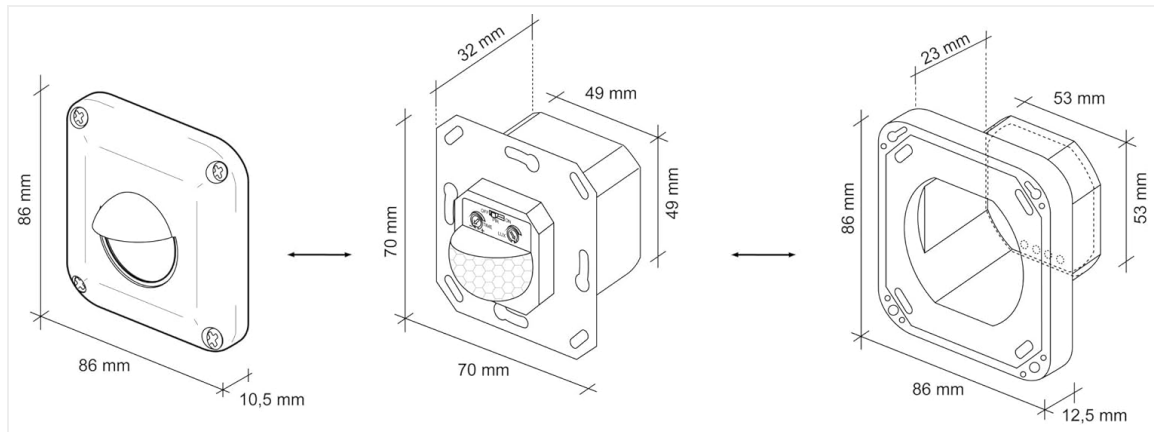


Image 5.2: Product dimensions and flush mounting illustration.

- Reattach the front cover to the sensor unit.

5.3. Detection Area

The sensor has a detection range of up to 10 meters and a 190-degree angle. The optimal installation height is between 1m and 1.8m. Consider the placement to avoid false triggers from moving objects or heat sources.

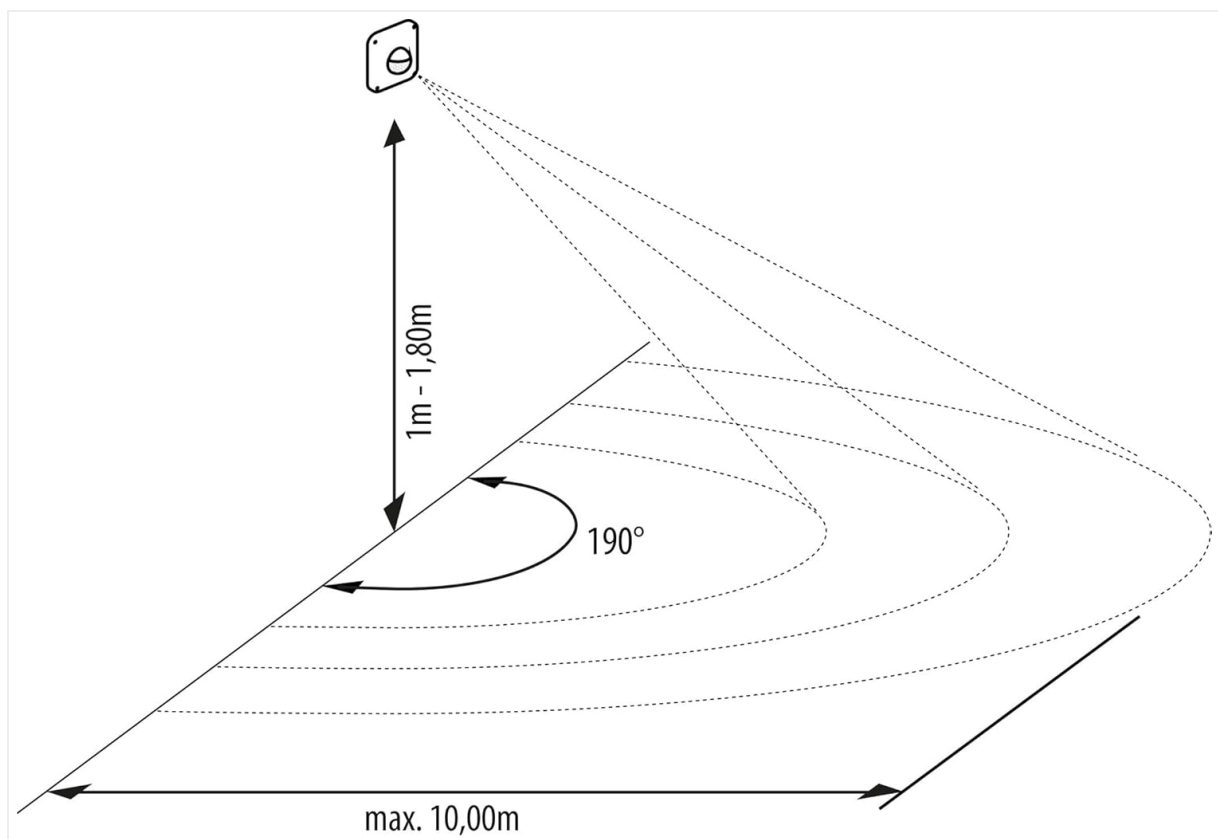


Image 5.3: Diagram illustrating the detection range and angle of the motion detector.

6. OPERATION

Once installed and powered on, the motion detector will automatically control the connected lighting based on its settings. The sensor activates the light when motion is detected within its range and the ambient light level is below the set LUX threshold. The light will then remain on for the duration set by the TIME control.

7. SETTINGS ADJUSTMENT

The motion detector features two adjustable controls: TIME and LUX. These controls are typically located behind the front cover of the sensor unit.



Image 7.1: View of the adjustment dials for TIME and LUX settings.

- **TIME (Light Duration):** This dial adjusts how long the connected light remains on after motion is detected and no further motion is sensed. The settings typically range from 10 seconds to 30 minutes. There may also be an option for permanent ON or OFF. Turn the dial clockwise to increase the duration and counter-clockwise to decrease it.
- **LUX (Ambient Light Sensitivity):** This dial sets the ambient light threshold. The sensor will only activate the light if the surrounding natural light level is below this set value. The range is typically from 3 LUX (very dark, only activates at night) to 2,000 LUX (daylight, activates regardless of natural light). Turn the dial towards the sun symbol for higher sensitivity (activates in brighter conditions) and towards the moon symbol for lower sensitivity (activates only in darker conditions).

8. MAINTENANCE

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

- **Cleaning:** Periodically clean the surface of the sensor, especially the lens, with a soft, dry, lint-free cloth.
- **Avoid Chemicals:** Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the plastic housing or the sensor lens.
- **Obstruction Check:** Ensure that the sensor lens is clear of any obstructions such as dirt, spiderwebs, or vegetation that could interfere with its detection capabilities.
- **Power Off for Deep Cleaning:** If a more thorough cleaning is required, always disconnect the power supply before proceeding.

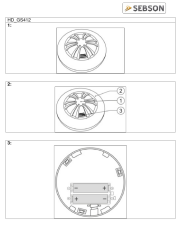

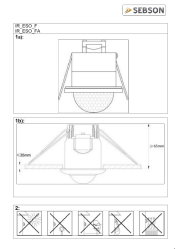
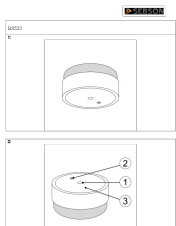

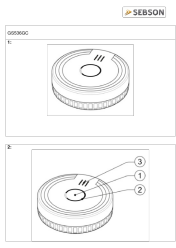
9. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	No power supply Faulty bulb Incorrect wiring LUX setting too high TIME setting too short	Check power connection and circuit breaker. Replace bulb. Verify wiring against diagram (Section 5.2). Adjust LUX setting to a lower value (towards moon symbol). Increase TIME setting.
Light stays on continuously.	TIME setting on permanent ON Continuous motion in detection area Faulty sensor	Adjust TIME setting to a timed duration. Remove obstructions or reposition sensor. Contact support if problem persists.
Light turns on randomly without apparent motion.	Environmental factors (e.g., moving branches, small animals, heat sources) High sensitivity	Reposition sensor to avoid interference. Adjust sensitivity (if available) or reposition.
Detection range is too short or too long.	Incorrect installation height Obstructions Sensitivity settings	Adjust installation height (refer to Section 5.3). Clear obstructions from detection path. Check if there are sensitivity adjustments (not explicitly mentioned for this model, but common).

10. WARRANTY AND SUPPORT

SEBSON products are manufactured with quality and reliability in mind. For information regarding warranty coverage, please refer to the documentation provided with your purchase or visit the official SEBSON website. If you require technical assistance or have questions not covered in this manual, please contact SEBSON customer support.

	<p>SEBSON HD GS412 Hitzemelder – Bedienungsanleitung und Installationshinweise</p> <p>Umfassende Bedienungsanleitung für den SEBSON HD GS412 Hitzemelder. Erfahren Sie mehr über Installation, Funktion, Vernetzung und Sicherheitshinweise für Ihren Hitzemelder.</p>
	<p>SEBSON Outdoor LED Light - Installation and User Manual</p> <p>Comprehensive installation and user manual for the SEBSON outdoor LED light (WAL_E_LED / WAL_F_LED), covering intended use, scope of delivery, safety instructions, installation guide, technical specifications, WEEE information, and cleaning instructions in English.</p>
	<p>SEBSON IR_ESO_F Infrared Motion Detector Installation and User Manual</p> <p>Comprehensive guide for the SEBSON IR_ESO_F infrared motion detector, covering installation, operation, safety, and technical specifications. Learn how to effectively use this motion detector for lighting control.</p>
	<p>SEBSON GS522 Rauchwarnmelder: Bedienungsanleitung und Sicherheitsinformationen</p> <p>Umfassende Bedienungsanleitung für den SEBSON GS522 Rauchwarnmelder. Erfahren Sie alles über Installation, Montage, Funktionen, Sicherheitshinweise und Wartung dieses wichtigen Brandschutzgeräts für Ihr Zuhause.</p>
	<p>SEBSON IR CEIL B Motion Detector Manual</p> <p>Comprehensive instructions for the SEBSON IR CEIL B motion detector, covering installation, operation, safety, and technical specifications. Learn how to effectively use this infrared motion sensor for lighting applications.</p>
	<p>SEBSON GS536GC Smoke Alarm User Manual</p> <p>Comprehensive user manual for the SEBSON GS536GC photoelectric smoke alarm detector. Includes installation instructions, safety guidelines, battery information, troubleshooting, and technical specifications.</p>