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## Garza 430041

# Garza 430041 Infrared Wall Motion Detector User Manual

Model: 430041

## 1. INTRODUCTION

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Thank you for choosing the Garza 430041 Infrared Wall Motion Detector. This device is designed to automatically control lighting based on motion detection, providing convenience and energy efficiency. It features a 180° detection angle and is suitable for surface wall mounting. Please read this manual carefully before installation and use to ensure proper function and safety.



Figure 1: Garza 430041 Infrared Wall Motion Detector.

## 2. SAFETY INFORMATION

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- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with local electrical codes and regulations. Always disconnect power at the main circuit breaker before installation or maintenance.
- **Voltage:** Ensure the power supply voltage matches the detector's requirements.
- **Environment:** Do not install the detector near heat sources, air conditioning vents, or in direct sunlight, as this may affect its performance. Avoid placing it in areas with excessive vibration.
- **IP44 Protection:** This device has an IP44 rating, meaning it is protected against solid objects larger than 1mm and against splashing water from any direction. It is suitable for outdoor use but should not be submerged in water.
- **Children:** Keep the device out of reach of children.

## 3. PACKAGE CONTENTS

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The package includes the following items:

- Garza Infrared Wall Motion Detector (180° detection angle, white, adjustable)
- Mounting screws and wall plugs
- User Manual (this document)

## 4. PRODUCT FEATURES

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The Garza 430041 Motion Detector offers the following key features:

- **Infrared (PIR) Motion Detection:** Detects movement by sensing infrared radiation (body heat).
- **Wide Detection Angle:** 180° detection angle for broad coverage.
- **Long Detection Distance:** Up to 12 meters.
- **Adjustable Lighting Control (LUX):** Sensitivity to ambient light can be set from 3 to 2000 lux, allowing operation only in darkness or during the day.
- **Adjustable Lighting Time (TIME):** The duration the connected light stays on after motion detection can be adjusted from 10 seconds to 7 minutes.
- **High Load Capacity:** Supports 800W – 1200W for incandescent lamps and 200W – 300W for low-consumption and LED bulbs.
- **IP44 Protection:** Suitable for both indoor and outdoor surface wall mounting.

Garza 

PIR 

Infrared

## WALL MOTION SENSOR

Detector de movimiento de pared



Detection distance



Detection angle



Adjustable light sensor



Adjustable lighting time



Wall installation height



5 year warranty



Protection index

Figure 2: Key features of the motion detector including detection distance, angle, adjustable light sensor, adjustable lighting time, and wall installation height.

## 5. SETUP AND INSTALLATION

**Important:** Ensure power is disconnected before beginning installation. Professional installation is highly recommended.

## 5.1 Mounting Location

- The detector is designed for surface wall mounting.
- Recommended installation height is between 1.8 and 2.5 meters for optimal detection range.
- Choose a location free from obstructions that might block the detection area.
- Avoid mounting directly above or near strong heat sources or reflective surfaces.



Figure 3: Example of the motion detector installed on an outdoor wall.

## 5.2 Wiring Instructions

Refer to the wiring diagram provided with the product. Typically, the connections are as follows:

- **L (Live Input):** Connect to the main live wire from the power supply.
- **N (Neutral Input):** Connect to the main neutral wire from the power supply.
- **L' (Switched Live Output):** Connect to the live input of the light fixture(s) to be controlled.

Ensure all connections are secure and properly insulated.

## 5.3 Initial Adjustments

After installation and before restoring power, you can pre-set the TIME and LUX sensitivity using the dials on the detector.

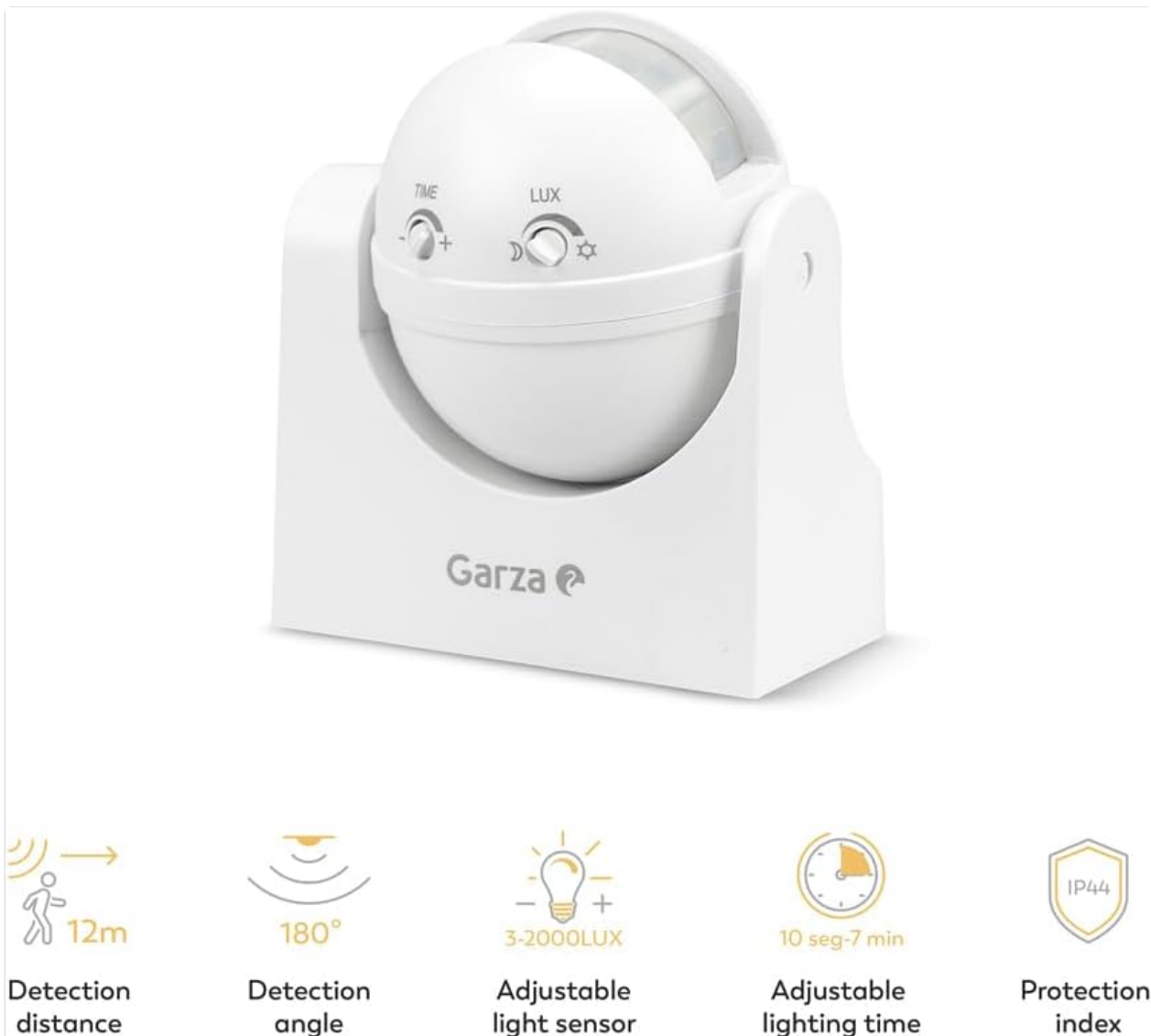


Figure 4: Front view of the detector showing the TIME and LUX adjustment dials.



Figure 5: Side view of the detector highlighting the TIME and LUX adjustment dials.

## 6. OPERATING INSTRUCTIONS

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Once installed and powered, the detector will operate according to its settings. You can fine-tune its behavior using the two adjustment dials:

- **TIME Adjustment:** This dial controls how long the connected light remains on after motion is detected and then stops. Rotate the dial clockwise to increase the duration (up to 7 minutes) and counter-clockwise to decrease it (down to 10 seconds).
- **LUX Adjustment:** This dial determines the ambient light level at which the sensor becomes active.
  - Rotate towards the 'sun' symbol (**MAX**) for the sensor to operate in both daylight and darkness.
  - Rotate towards the 'moon' symbol (**MIN**) for the sensor to operate only when the ambient light is low (e.g., at dusk or night).

Test the settings by walking through the detection area and observing the light's behavior. Adjust as needed for optimal performance.

## 7. MAINTENANCE

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- **Cleaning:** Periodically clean the detector's lens with a soft, dry cloth to ensure optimal detection. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check for any signs of damage to the casing or wiring. If damage is found, disconnect power and have it inspected by a qualified technician.
- **No User-Serviceable Parts:** The internal components are not user-serviceable. Do not attempt to open or repair the device.

## 8. TROUBLESHOOTING

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| Problem   | Possible Cause  | Solution  |
|---|---|---|
| Light does not turn on when motion is detected. | No power supply.<br>LUX setting is too low (moon symbol) during daylight.<br>Bulb is faulty.<br>Wiring error. | Check power supply and circuit breaker.<br>Adjust LUX setting towards the 'sun' symbol.<br>Replace the bulb.<br>Verify wiring connections (consult an electrician). |
| Light stays on continuously.                    | Constant motion in detection area.<br>Wiring error.<br>Detector malfunction.                                  | Clear obstructions or reposition the detector.<br>Verify wiring connections (consult an electrician).<br>Contact customer support.                                  |
| Detection range is too short or inconsistent.   | Obstructions in detection path.<br>Incorrect installation height.<br>Temperature fluctuations.                | Remove obstructions.<br>Ensure installation height is between 1.8m and 2.5m.<br>Relocate the detector away from heat sources or direct sunlight.                    |

## 9. SPECIFICATIONS

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| Specification                       | Value  |
|-------------------------------------|--|
| Model Number                        | 430041   |
| Brand                               | Garza  |
| Detection Angle                     | 180°   |
| Detection Distance                  | 12 meters  |
| Protection Rating                   | IP44   |
| Mounting Type                       | Wall Mount (Surface)   |
| Adjustable Light Control (LUX)      | 3 – 2000 lux   |
| Adjustable Lighting Time (TIME)     | 10 seconds – 7 minutes   |
| Load Capacity (Incandescent)        | 800W – 1200W   |
| Load Capacity (Low-consumption/LED) | 200W – 300W  |
| Power Source                        | Battery Powered (Note: Product specifications indicate 'Alimenté par batterie' but also 'Piles non incluses'. This typically means it requires batteries for operation, but they are not supplied. However, other specs like 'Watt: 1200 Watts' and 'Type de prise électrique: Montage mural' suggest it's mains powered. Given the context of a wall-mounted detector controlling lights, it's highly likely mains powered. The 'battery powered' might be a data entry error or refer to an internal clock/memory battery not for primary power. Assuming mains power for controlling lights.) |
| Dimensions (L x W x H)              | 8.8 x 10 x 7.5 cm  |
| Weight                              | 146 grams  |
| Operating Temperature               | 20 Degrees Celsius (This seems like a single point, not a range. It's likely an error in the source data or refers to a test condition. Users should assume standard operating temperatures for electrical devices.)   |

## 10. WARRANTY AND SUPPORT

Garza products are manufactured to high-quality standards. For warranty information, please refer to the terms and conditions provided at the point of purchase or contact your retailer. For technical support or inquiries, please reach out to Garza customer service through their official website or contact channels.

