goobay 96005

Goobay 96005 Infrared Motion Detector User Manual

Model: 96005 | Brand: Goobay

1. INTRODUCTION

The Goobay 96005 Infrared Motion Detector is designed for automatic lighting control in indoor environments. This device utilizes a Passive Infrared (PIR) sensor to detect movement within its detection zone, activating connected lights or other electrical loads. It is particularly suitable for use with LED lamps and luminaires in areas such as hallways, stairwells, and utility rooms. The detector features adjustable settings for light sensitivity and activation duration, allowing for customized operation.

Key Features:

- 160° PIR sensor for wide detection coverage.
- Detection range up to 9 meters.
- Suitable for indoor flush wall mounting (IP20 rated).
- Compatible with LED lighting.
- Adjustable light sensitivity (3-2000 lux).
- Adjustable activation delay time (10-420 seconds).
- Integrated ON/OFF/PIR function switch.

Image 1.1: Goobay 96005 Infrared Motion Detector highlighting its PIR sensor, 160° detection, 9m range, LED compatibility, and adjustable light duration.

2. SAFETY INSTRUCTIONS

WARNING: Electrical Shock Hazard. Installation and wiring must be performed by a qualified electrician in accordance with all local and national electrical codes. Failure to follow these instructions can result in serious injury or death.

- Always disconnect power at the circuit breaker or fuse box before installing or servicing the device.
- Verify that the supply voltage matches the device's rating (230V AC).
- **Important Safety Note:** Some user reports indicate potential safety concerns regarding the internal wiring, specifically a possible connection between the neutral (N) terminal and the metallic chassis, or a commonality between earth and neutral. This design may pose an electrical shock risk in installations where separate ground and neutral lines are required or expected (e.g., certain European wiring standards). Exercise extreme caution during installation and consider consulting a professional electrician to ensure safe integration into your electrical system.
- This product may not carry a CE certification mark, which is typically required for products sold within the European Economic Area. Users should be aware of this and assess compliance with local regulations.
- Do not exceed the maximum load capacity of 100W.
- Do not install in locations exposed to direct sunlight, extreme temperatures, high humidity, or strong vibrations.
- Ensure proper ventilation around the device.

3. PRODUCT OVERVIEW

3.1 Package Contents

- 1x Goobay 96005 Infrared Motion Detector

3.2 Device Components

The Goobay 96005 motion detector consists of a main body with a PIR sensor lens, a visible ON/OFF/PIR switch, and two adjustable rotary dials (TIME and LUX) located behind the front cover. It is designed for flush mounting into a standard wall box.

Image 3.1: Front view of the Goobay 96005 showing the PIR sensor, ON/OFF/PIR switch, and locations of TIME/LUX adjustment dials (behind cover).

4. SPECIFICATIONS

Feature	Specification
Model Number	96005
Sensor Type	Passive Infrared (PIR)
Detection Angle	160°
Detection Range	Up to 9 meters
Installation Height (Recommended)	1.0 m to 1.8 m
Operating Voltage	230 V AC
Switching Power (Max)	100 W
Minimum Load	1 W
Light Sensitivity (LUX)	Adjustable from 3 lx to 2000 lx
Delay Time (TIME)	Adjustable from 10 s to 420 s
Protection Rating	IP20 (Indoor use only)
Color	White
Dimensions (W x H x D)	79 mm x 79 mm x 25 mm (depth into wall) / 20 mm (protrusion from wall)
Weight	70 g
Mounting Type	Flush Wall Mount

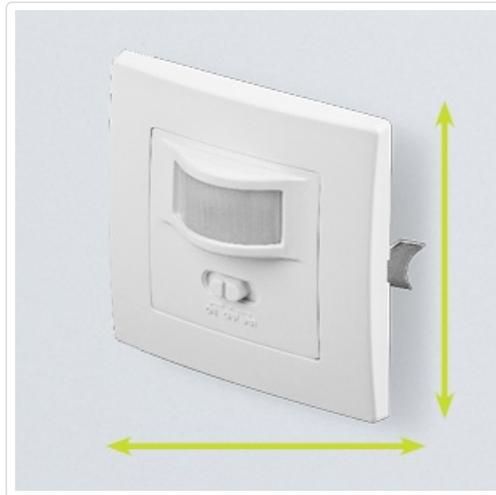| Feature	Specification
Connection Type	Screw terminals
Operating Temperature	3°C to 30°C

Image 4.1: Detailed dimensions of the Goobay 96005 motion detector.

5. SETUP AND INSTALLATION

This device is designed for flush wall mounting. Ensure power is disconnected before proceeding with installation.

5.1 Choosing an Installation Location

- Install the detector in a location where the desired detection area is clear of obstructions.
- Avoid placing near heat sources (e.g., heating vents, direct sunlight) or areas with strong air currents, as these can cause false triggers.
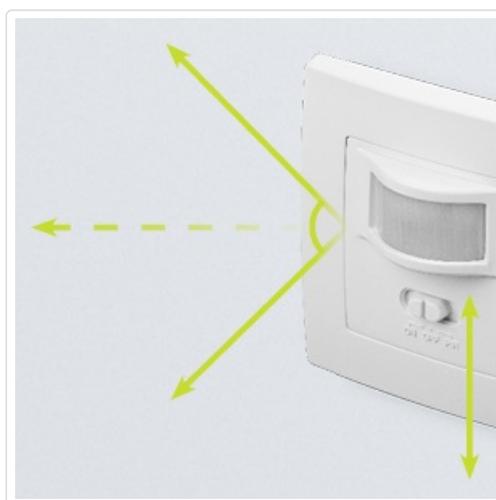- Recommended installation height is between 1.0 and 1.8 meters for optimal detection range and angle.

Image 5.1: Detection area and recommended installation height.

5.2 Wiring Instructions

The device uses screw terminals for electrical connections. Refer to the wiring diagram provided with the product packaging for precise connections. A typical connection involves:

1. **L (Live/Phase):** Connect the incoming live wire from the power supply.
2. **N (Neutral):** Connect the incoming neutral wire from the power supply.
3. **L' (Switched Live):** Connect this terminal to the live input of the lamp or luminaire you wish to control.

Ensure all connections are secure and insulated. After wiring, carefully place the detector into the wall box and secure it. Attach the front cover.

6. OPERATING AND ADJUSTMENTS

The Goobay 96005 motion detector has three main adjustable functions: the ON/OFF/PIR switch, the TIME setting, and the LUX setting.

6.1 ON/OFF/PIR Switch

Located on the front of the device, this switch allows you to select the operating mode:

- **ON:** The connected light will remain continuously on, bypassing the motion sensor function.
- **OFF:** The connected light will remain continuously off.
- **PIR:** The motion sensor is active. The light will turn on when motion is detected and ambient light conditions meet the LUX setting.

6.2 TIME Adjustment (Light Duration)

The TIME dial, located behind the front cover, controls how long the light remains on after motion is detected and no further motion is sensed. Rotate the dial to adjust the duration:

- Rotate clockwise for a longer duration (up to 420 seconds).
- Rotate counter-clockwise for a shorter duration (down to 10 seconds).

6.3 LUX Adjustment (Light Sensitivity)

The LUX dial, also located behind the front cover, determines the ambient light level at which the sensor will become active. This allows the light to only turn on when it's dark enough.

- Rotate towards the 'sun' symbol (higher lux value) for the sensor to activate only in brighter conditions (e.g., during dusk).
- Rotate towards the 'moon' symbol (lower lux value) for the sensor to activate only in darker conditions (e.g., at night).
- The range is adjustable from approximately 3 lux (dark) to 2000 lux (daylight).

7. MAINTENANCE

The Goobay 96005 motion detector requires minimal maintenance.

- **Cleaning:** Periodically wipe the sensor lens and outer casing with a soft, dry cloth to remove dust and dirt. Do not use abrasive cleaners, solvents, or excessive moisture, as these can damage the device.
- **Inspection:** Regularly check for any signs of damage to the casing or wiring. If any damage is found, disconnect power immediately and have the device inspected by a qualified technician.

8. TROUBLESHOOTING

If you experience issues with your Goobay 96005 motion detector, refer to the following common problems and solutions:

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

- Check if the ON/OFF/PIR switch is set to 'PIR'.
- Adjust the LUX setting towards the 'moon' symbol to ensure it activates in current ambient light conditions.
- Verify that the power supply to the detector and the connected light is active.
- Ensure the detection area is clear and motion is occurring within range.
- Check the connected light bulb/fixture for functionality.

- **Light stays on continuously or turns on randomly:**

  - Check if the ON/OFF/PIR switch is set to 'ON'.
  - Adjust the TIME setting to a shorter duration.
  - Ensure there are no constant heat sources or air currents (e.g., heating vents, open windows, pets) within the detection zone causing false triggers.
  - **For LED lights:** If using low-wattage LED lights, some residual current or 'ghosting' (flickering or dim illumination when off) can occur. This is often due to the minimal load of LEDs and can sometimes be resolved by adding a bypass capacitor or a minimum load resistor in parallel with the LED light, or by using an LED-compatible motion sensor designed for very low loads. Consult an electrician for appropriate solutions.

- **Detection range or angle is insufficient:**

  - Ensure the installation height is within the recommended 1.0 to 1.8 meters.
  - Verify that there are no physical obstructions blocking the sensor's view.
  - Clean the sensor lens if it is dirty.

9. WARRANTY AND SUPPORT

Specific warranty information for the Goobay 96005 Infrared Motion Detector is not provided in this manual. Please refer to the purchase documentation or contact your retailer for details regarding warranty terms and conditions.

For technical support or further assistance, please contact Goobay customer service or your local distributor. Contact information can typically be found on the manufacturer's website or product packaging.