Knightsbridge OS0014

Knightsbridge IP44 180° Mini PIR Sensor (Model OS0014) Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Knightsbridge IP44 180° Mini PIR Sensor, Model OS0014. This passive infrared (PIR) sensor is designed to detect motion and automatically control connected lighting or other devices, offering convenience and energy efficiency. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

- Installation must be carried out by a qualified electrician in accordance with national wiring regulations.
- Ensure the main power supply is switched off before commencing any installation or maintenance work.
- This product is rated IP44, making it suitable for outdoor use where protection against splashing water is required.
- Do not exceed the maximum load ratings specified for this device.
- Keep the sensor lens clean and free from obstructions to ensure optimal performance.

3. PRODUCT OVERVIEW

The Knightsbridge OS0014 is a compact, white, wall-mountable or ceiling-mountable PIR sensor. It features a 180° detection angle and adjustable settings for time delay and light sensitivity (LUX).

Figure 1: Front-angled view of the Knightsbridge IP44 Mini PIR Sensor.

Figure 2: Direct front view of the sensor, highlighting the detection lens.

Figure 3: Side view of the sensor, illustrating its compact design and wall mounting bracket.

Figure 4: Bottom view of the sensor, showing the 'TIME' and 'LUX' adjustment dials.

4. INSTALLATION AND SETUP

4.1 Mounting Location

Choose a suitable location for mounting the sensor. It can be wall-mounted or ceiling-mounted. For optimal performance, consider the following:

- Avoid mounting near heat sources (e.g., air conditioning vents, heaters) that could cause false triggers.
- Ensure the detection area is clear of large obstructions.
- Mount at a height that allows for effective detection within the 4-meter range and 180° angle.

4.2 Wiring

Warning: Electrical installation should only be performed by a qualified electrician.

1. Switch off the main power supply at the consumer unit.
2. Carefully open the sensor housing to access the wiring terminals.
3. Connect the live, neutral, and switched live wires according to the wiring diagram provided inside the sensor or on its packaging.
4. Ensure all connections are secure and correctly insulated.
5. Close the sensor housing securely, ensuring the IP44 rating is maintained.

5. OPERATING INSTRUCTIONS

After installation and power restoration, the sensor will enter a warm-up period (typically 30-60 seconds) during which it may cycle on and off. Once warmed up, you can adjust the settings using the dials located on the sensor (refer to Figure 4).

5.1 TIME Adjustment

The 'TIME' dial controls how long the connected light or device remains on after motion is detected and then ceases. The adjustable range is approximately 10 seconds to 15 minutes. Rotate the dial clockwise to increase the duration and counter-clockwise to decrease it.

5.2 LUX Adjustment

The 'LUX' dial determines the ambient light level at which the sensor will activate. This allows the sensor to operate only when it is dark enough. The adjustable range is approximately 3 LUX (dark) to 300 LUX (daylight). Rotate the dial towards the 'sun' symbol for activation in brighter conditions or towards the 'moon' symbol for activation only in darker conditions.

Automatic Operation: Once configured, the sensor will automatically detect motion within its 180° field of view and 4-meter range, activating the connected load according to the set TIME and LUX levels.

6. MAINTENANCE

The Knightsbridge Mini PIR Sensor requires minimal maintenance. To ensure continued optimal performance:

- Periodically clean the sensor lens with a soft, damp cloth to remove dust, dirt, or debris that may obstruct detection. Do not use abrasive cleaners.
- Ensure the sensor is free from physical damage.

7. TROUBLESHOOTING

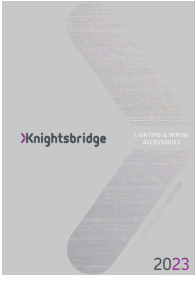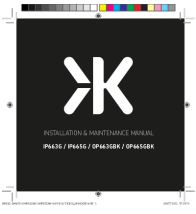| Problem	Possible Cause	Solution
Sensor does not activate.	No power; LUX setting too high; TIME setting too low; obstructed sensor.	Check power supply; adjust LUX dial towards 'moon'; adjust TIME dial; clear obstructions from sensor lens.
Light stays on continuously.	Constant motion in detection area; wiring error; sensor fault.	Ensure no continuous motion; verify wiring connections; if problem persists, consult a qualified electrician.

Problem	Possible Cause	Solution
Sensor activates without apparent motion.	Heat sources; small animals; strong air currents; sensor fault.	Relocate sensor away from heat sources or drafts; adjust detection angle if possible; if problem persists, consult a qualified electrician.
Detection range is poor.	Incorrect mounting height; obstructions; extreme temperatures.	Verify mounting height; remove obstructions; ensure operating within specified temperature range.

8. SPECIFICATIONS

Feature	Detail
Model Number	OS0014
Brand	Knightsbridge
Color	White
Power Source	AC
Item Weight	0.1 Kilograms (approx. 3.52 ounces)
Maximum Detection Range	4 Meters
Detection Angle	180°
Mounting Type	Wall Mount / Ceiling Mount
Product Dimensions (D x W x H)	2.76" x 3.05" x 2.13"
Material	Polycarbonate
Special Features	Adjustable (TIME and LUX)
IP Rating	IP44
Switching Capacity	Max. 2000W Incandescent / Max. 1000W LED
Batteries Required?	No

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact Knightsbridge customer service directly. Keep your proof of purchase for any warranty claims.

Related Documents - OS0014

[Knightsbridge Wireless Door Chime Installation and Maintenance Manual](#)
Comprehensive installation and maintenance guide for Knightsbridge wireless plug-in and battery-operated door chimes and PIR sensors, covering setup, safety, product layout, battery installation, mounting, and pairing procedures.

[Knightsbridge 2023 Lighting & Wiring Accessories Catalogue](#)
Explore the comprehensive 2023 catalogue from Knightsbridge, featuring a wide range of lighting and wiring accessories, including switches, sockets, LED lighting, smart home solutions, and more for domestic, commercial, and industrial applications.

[Knightsbridge IP663G/IP665G/OP663GBK/OP665GBK Installation and Maintenance Manual](#)
This manual provides installation and maintenance instructions for the Knightsbridge IP663G, IP665G, OP663GBK, and OP665GBK remote switch boxes. It covers general safety, installation steps, remote control setup, and warranty information.

[Knightsbridge GDM05TOGAT 20AX Intermediate Grid Toggle Switch - Anthracite Datasheet](#)
Technical datasheet for the Knightsbridge GDM05TOGAT 20AX Intermediate Grid Toggle Switch in anthracite finish. Features include IP20 rating, 230V input voltage, single pole, 20AX load capacity, and 25-year warranty.

[Knightsbridge SK0010 Installation and Maintenance Manual](#)
Comprehensive installation and maintenance guide for the Knightsbridge SK0010 dual USB charger, detailing safety precautions, installation steps, general care, and warranty information.

[Knightsbridge WAD12xx Outdoor Wall Light Installation and Maintenance Manual](#)
Comprehensive installation and maintenance guide for the Knightsbridge WAD12xx series outdoor wall light, including safety instructions, wiring diagrams, and warranty information.