

Knightsbridge OS006B

Knightsbridge OS006B Dawn to Dusk Photoelectric Cell Switch User Manual

Model: OS006B

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Knightsbridge OS006B Dawn to Dusk Photoelectric Cell Switch. Please read these instructions carefully before installation and use, and retain them for future reference.

SAFETY INFORMATION

WARNING: Always isolate the mains power supply before installation, maintenance, or servicing.

- Installation should only be carried out by a qualified electrician in accordance with current wiring regulations.
- Ensure the product is correctly earthed.
- Do not exceed the maximum load ratings specified in the 'Specifications' section.
- This product is designed for outdoor use with an IP55 rating, but ensure all connections are sealed appropriately.

PRODUCT OVERVIEW

The Knightsbridge OS006B is a wall-mounted photoelectric cell switch designed to automatically control outdoor lighting based on ambient light levels. It features adjustable light level settings and timed duration options.



Figure 1: Front view of the Knightsbridge OS006B Photoelectric Cell Switch. The device is black with four visible screws on the corners and a central light sensor. The text "ISOLATE MAINS BEFORE SERVICING" is visible at the bottom.

INSTALLATION

1. **Isolate Power:** Before commencing any work, ensure the mains power supply to the circuit is completely isolated at the consumer unit/fuse board.
2. **Mounting:** Select a suitable mounting location that allows the sensor to accurately detect ambient light without obstruction from artificial light sources (e.g., streetlights, other luminaires) or shadows. Mount the unit securely to a flat surface using appropriate fixings.
3. **Wiring:** Open the unit by unscrewing the four corner screws. Connect the wiring according to the diagram inside the unit and relevant wiring regulations. Ensure correct polarity: Live (L), Neutral (N), and Switched Live (Load). Use appropriate cable glands to maintain the IP rating.



Figure 2: Internal view of the OS006B switch. The left side shows the circuit board with terminals labeled L, N, and LOAD, along with dials for adjusting light sensitivity and timer settings (2H, 4H, 6H, 8H, D-D). The right side shows the inside of the cover with product information.

4. **Close Unit:** Once wiring is complete, securely close the unit, ensuring the gasket is correctly seated to maintain the IP55 rating. Tighten the four corner screws.
5. **Restore Power:** Restore mains power.

OPERATING INSTRUCTIONS

Setting Light Sensitivity (Dusk-Dawn Threshold)

The OS006B features an ambient light memory function. To set the desired activation light level:

1. At the desired ambient light level (e.g., dusk), press the 'SET' button located inside the unit (refer to Figure 2).
2. The unit will now activate the connected lighting when the ambient light falls below this set level.

Setting Timer Duration

The unit can be set to switch off after a specific duration or operate from dusk till dawn.

- **Dusk-to-Dawn (D-D):** Rotate the timer dial (refer to Figure 2) to the 'D-D' position for continuous operation from dusk until dawn.
- **Timed Operation:** Rotate the timer dial to 2H, 4H, 6H, or 8H to switch off the connected lighting after 2, 4, 6, or 8 hours respectively, from the moment of activation.

MAINTENANCE

The Knightsbridge OS006B requires minimal maintenance. Periodically inspect the unit for any signs of damage or wear. Ensure the sensor lens is clean and free from dirt or obstructions to maintain accurate operation. Always isolate power before cleaning or inspection.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Light not turning on at dusk.	Incorrect light sensitivity setting; power supply issue; faulty wiring; sensor obstructed.	Re-set the light sensitivity. Check power supply and wiring. Ensure sensor is clean and unobstructed.
Light staying on during the day.	Incorrect light sensitivity setting; sensor receiving insufficient light (e.g., in a shaded area).	Re-set the light sensitivity. Relocate the unit to an area with adequate ambient light.
Light not turning off after timed duration.	Timer setting incorrect; internal fault.	Verify timer dial setting. If issue persists, consult a qualified electrician.

SPECIFICATIONS

Model: OS006B

Brand: Knightsbridge

Dimensions (L x W x H): 10.5 x 7.9 x 3.6 cm

Weight: 170 grams

Ingress Protection (IP) Rating: IP55



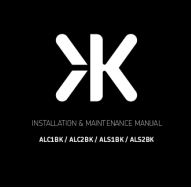



Switching Capacity:

- Max. 1000W Incandescent
- Max. 500W Fluorescent/Inductive
- Max. 200W LED

Standards Compliance: EN 60669-2-1, EN 60669-1, EN 55015, EN 61547, EN 61000, CE + UKCA

WARRANTY AND SUPPORT

This product is covered by a 1-year warranty on spare parts availability from the date of purchase. For technical support or warranty claims, please contact your retailer or the manufacturer, Knightsbridge. For further assistance, please visit the official Knightsbridge website or consult a qualified electrician.

 <p>Knightsbridge INSTALLATION & MAINTENANCE MANUAL EX00xx</p>	<p>Knightsbridge EX00xx Extractor Fan Installation & Maintenance Manual</p> <p>Comprehensive installation and maintenance manual for Knightsbridge EX00xx series extractor fans (EX003T, EX004T, EX005T, EX006T). Includes safety guidelines, wiring instructions, timer adjustment, and warranty information for proper setup and care.</p>
 <p>Knightsbridge INSTALLATION & MAINTENANCE MANUAL WAD12xx</p>	<p>Knightsbridge WAD12xx Outdoor Wall Light Installation and Maintenance Manual</p> <p>Comprehensive installation and maintenance guide for the Knightsbridge WAD12xx series outdoor wall light, including safety instructions, wiring diagrams, and warranty information.</p>
 <p>Knightsbridge INSTALLATION & MAINTENANCE MANUAL ALC1BK / ALC2BK / ALS1BK / ALS2BK</p>	<p>Knightsbridge ALANA Series IP65 GU10 LED Wall Lights Installation and Maintenance Manual</p> <p>Comprehensive installation and maintenance guide for Knightsbridge ALANA series IP65 GU10 LED wall lights, including models ALC1BK, ALC2BK, ALS1BK, and ALS2BK. Covers safety, installation steps, general care, and warranty information.</p>
 <p>Knightsbridge LIGHTING & WIRING ACCESSORIES 2023</p>	<p>Knightsbridge 2023 Lighting & Wiring Accessories Catalogue</p> <p>Explore the comprehensive 2023 catalogue from Knightsbridge, featuring a wide range of lighting and wiring accessories, including switches, sockets, USB chargers, and smart home solutions. Discover quality products for domestic and commercial applications.</p>
 <p>Knightsbridge LIGHTING & WIRING ACCESSORIES 2023</p>	<p>Knightsbridge 2023 Lighting & Wiring Accessories Catalogue</p> <p>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.</p>
 <p>Knightsbridge INSTALLATION & MAINTENANCE MANUAL IP663G / IP665G / OP663GBK / OP665GBK</p>	<p>Knightsbridge IP663G/IP665G/OP663GBK/OP665GBK Installation and Maintenance Manual</p> <p>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.</p>

