

Masterseal**Photo-electric (dusk/dawn)****Switch**

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PRODUCT RANGE	
Automatic switch	List No.
– with fixed ambient light threshold and adjustable timer	56748 GRY
Serviceable items	
Blank (supplied with unit)	56460
PVC cable entry	56461
20mm plain conduit entry	56462 56463
Box coupler	56464
M20 earth lead adaptor	9933

Standards and approvals

The MK photo-electric switch is designed to comply with the following standards:

56748, BS EN 60529 – IP56

IEC 669-2-1

BS EN 50081-1

BS EN 50082-1

Description

The Masterseal photo-electric switch is designed for the automatic control of lighting in car parks, loading bays, external stairways and walkways, porches, patios, driveways etc.

The unit is surface mounted and has knockouts on 4 sides.

Mode of operation

Photo-electric switches automatically turn lighting ON at dusk when the ambient light falls below a pre-set threshold level, and turn it OFF again at dawn when the ambient light rises above this threshold level.

The unit will switch ON when the light level falls below approximately 25 lux and remains ON until the light level rises again above approximately 40 lux. These switching levels are NOT adjustable.

Additional features

List No. 56748 includes an adjustable time setting (1 to 15 hours nominal) when operation is required outside the dusk/dawn threshold. The unit will then automatically switch to OFF at the pre-set time, or at dawn, whichever is sooner.

The time setting control is adjusted with the use of a 4mm screwdriver.

Features

- Automatic ON/OFF (dusk/dawn) operation
- Optional adjustable time setting
- Splashproof and dustproof
- Suitable for lighting loads of up to 1KW
- Suitable for indoor or outdoor use

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TECHNICAL SPECIFICATION

Electrical

Operating voltage:
240V a.c., 50Hz

Maximum switching loads:

Tungsten filament lamps 1KW

Fluorescent tubes with power factor correction 1KW

Fluorescent tubes without power factor correction 1KW

Tungsten Halogen 1KW

Fused supply 10A

Threshold levels:
25 lux On/40 lux OFF

Adjustable time:
1-15 hours nominal

Load rating:
6 amp 1000W Tungsten GLS/Tungsten Halogen,
1200W Fluorescent (without PF correction)

Load capacitance:
100µ Max

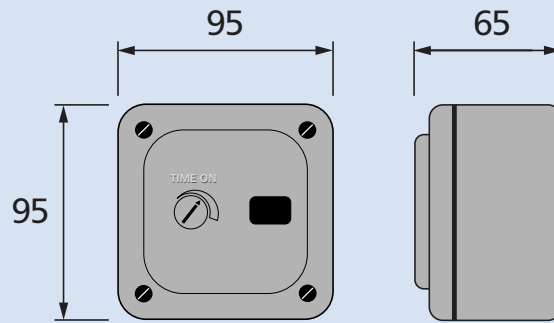
Physical

Ambient operating temperature:
-5°C to +40°C

IP rating:
56748 – IP56

Max. installation altitude:
2000 metres

Dimensions (mm)



Installation

Positioning

1. The unit should ideally be fitted to a north facing wall at a height of at least 2.5m above ground level to avoid the effect of direct light (eg from car headlamps), and in a position where it will not be illuminated by any artificial light source (eg street lamps etc.).
2. The unit should not be mounted in a position where it is shielded from natural daylight.

3. The controlled lighting load should be mounted in a position where it does not illuminate the photo-electric switch.
4. The enclosure should only be mounted in the vertical plane.
5. The unit should be mounted so that one of the drain hole features is located at the bottom left hand corner.

