CHALLENGER

YOUR PARTNER IN A MORE SECURE FUTURE

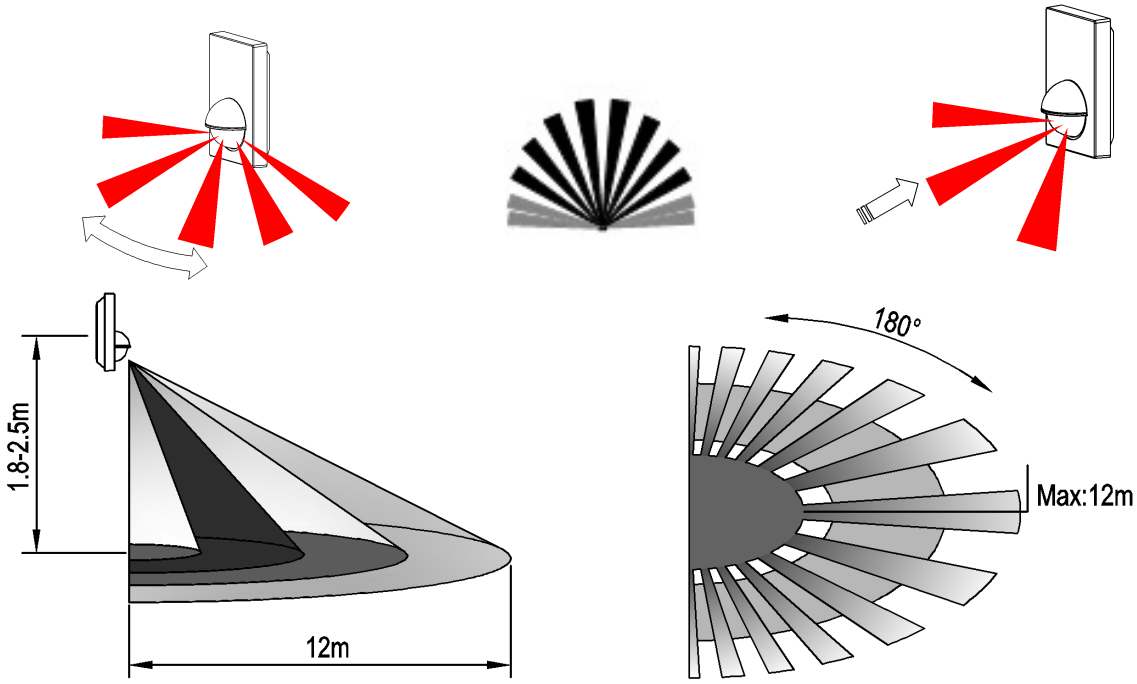
SLPW1W, SLPW1B
180° 12m Slimline
Security Lighting PIR

User Manual

1. Introduction

Please read the instruction manual before installing and retain for the user/maintenance engineer for future reference.

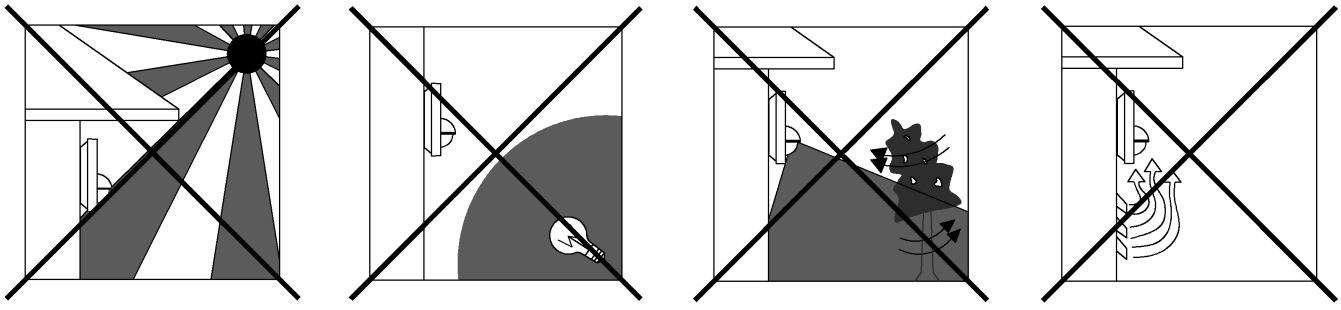
- This detector uses passive infra-red sensors to switch various types of lighitng loads upon detection of movement
- Suitable for indoor or outdoor use and can be used in residential or commercial environments
- The sensor is easyto install and low maintenance
- Adjustable light level settings
- Adjustable time delaysettings
- The sensor is more sensitive with movement moving across the sensor rather than towards it



2. Installation

As the detector responds to changes in temperature, avoid the following installations situations to minimise false activations:

- Avoid pointing the detector towards objects with highly reflective surfaces, such as mirrors etc.
- Avoid mounting the detector near heat sources, such as heating vents, air conditioning units, light etc.
- Avoid pointing the detector towards objects that may move in the wind, such as trees, shrubs and tall plants etc



IMPORTANT NOTE:

Installation must be performed by a skilled electrician who is familiar with the appropriate standards and technical requirements of the appliance and its proper installation.

The person carrying out the installation is to check and verify that the total load on the circuit, including the rating of the cable, fuse and/or circuit breaker is not exceeded.

- Ensure the mains supply is isolated
- Remove the screw on the bottom of the sensor and remove the front cover (figure 1 & 2)
- Release the bottom clip and fold the sensor up to reveal the mounting holes and connections
- Secure the sensor with appropriate screws and fixings at a mounting height between 1.8 - 2.5m (figure 3)
- If to be installed in a corner (inward) please use the supplied fixing bracket (refer to below drawing)
- Feed the cables through the rear cable entry knockouts and grommets and refer to the wiring diagram for terminal connections
- If the light needs to be manually overridden then a separate Switch Live will be required to the luminaires or to sensor load terminal (**L')**
- Ensure the relevant IP seals are used on the cable entries to maintain the IP rating. Route the cables inside the sensor close to the sensor backplate as not to impede the closing of the sensor and lid
- Fold back the sensor closed, ensuring it is clicked in to place via the securing clip on the bottom of the backplate
- Switch on the mains supply and then test, adjust the time and lux accordingly, refit the lid and secure by fixing with the bottom screw

Figure 1

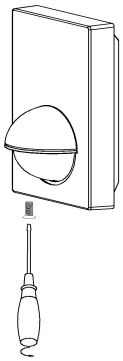


Figure 2

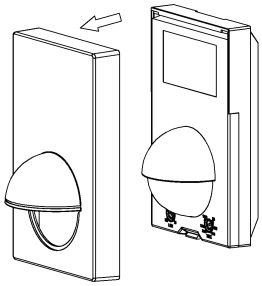
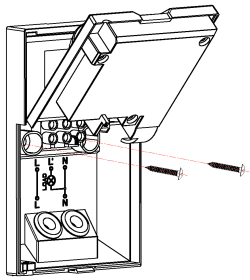
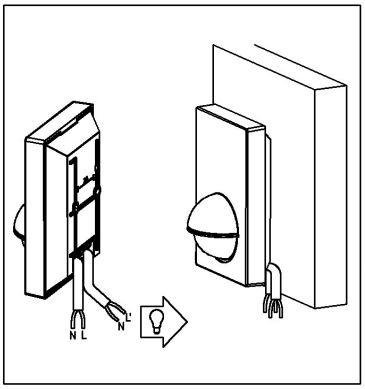


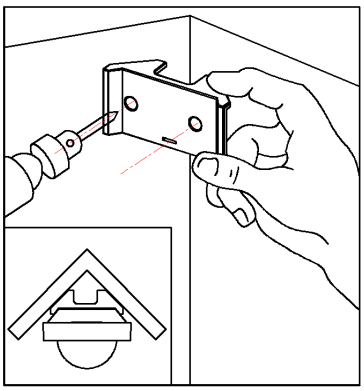
Figure 3



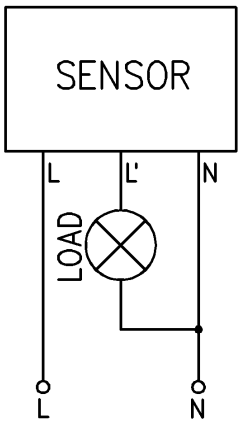
Flat mounted



Internal corner mount

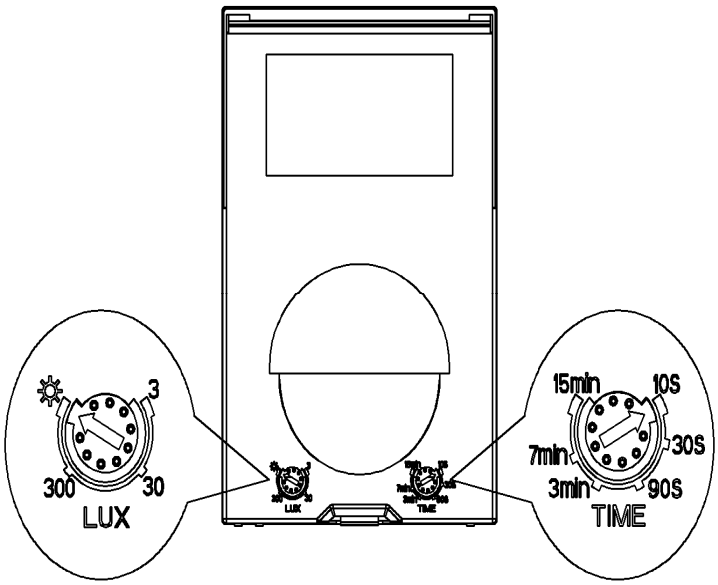


Connection Wiring Diagram



3. Testing

Turn the LUX adjuster fully clockwise (Sun); turn the TIME adjuster fully anti-clockwise to the minimum (10s).



- Switch on mains AC supply and after a 30sec warm-up period the sensor will now be in test mode
- Walk test the sensor, when the sensor receives a valid trigger signal (such as movement of a human body or heat) within its detection area the lamp will turn on. You will be able to determine the detection area by walking slowly across the front of the sensor.
- If the sensor does not receive any other valid trigger signal then the light should switch off 10sec (±3sec). While the lamp is on and the sensor receives additional valid trigger signal then the timer will re-start and the light will remain on.
- After testing the sensor ensuring the required area can be detected, Turn LUX adjuster anti- to the required night time operational level, and adjust the Time adjuster clockwise to the required time for the light duration to be on.

Troubleshooting

The load does not work:

- Please check the connections, and the AC mains supply is on
- Please check if the load is operational
- Please check the adjustment settings and make the necessary adjustments if required

- The sensitivity is poor:
  - Please check if there is any obstructions in front of the sensor that will affect it receiving a valid trigger signal
  - Check that the sensor is mounted flat and perpendicular to the floor
  - Please check that if the ambient temperature is too high
  - Please check if the induction signal source is in the detection field.
  - Please check if the installation height corresponds to the height required in the instruction
  - Please check if the moving orientation is correct

- The sensor cannot turn off the load automatically:
  - Please check if there is continual signal in the detection field
  - Please check if the time delay is set to maximum
  - Please check if the connections and that a permanent Live is not connected directly to the load

Specification

Power Source:	230v AC 50/60Hz
Ambient Light:	<3 to 2000LUX (adjustable)
Detection Range:	180°
Detection Distance:	12m max (24°C)
Working Temperature:	-20~+40C
Working Humidity:	<93%RH
Power Consumption:	approx. 0.5W
Installation Height:	1.8-2.5m
Detection Moving Speed:	0.6-1.5m/s
Time Delay:	Min.10sec ±3sec
	Max.15min ±2min
Dimensions:	120x78x52mm
Weight:	130g (net)
IP Rating:	IP44

Rated Load:

Fluorescent:	Max.1200W
Energy Saving:	Max. 300W
LED:	Max. 300w or maximum 6 number of LED drivers

Due to our policy of continuous improvement we reserve the right to change specification without prior notice. Errors and omissions excepted. These instructions have been carefully checked prior to publication. However, no responsibility can be accepted by Challenger for any misinterpretation of these instructions.

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