



# HPSUNSW Instructions

## Sunset Switch

Weatherproof IP66, 16A 240V  
With Time Setting Options



**Thank you for choosing Trader's HPSUNSW Sunset Switch  
Weatherproof IP66 16A 240V With Time Setting Options.**

### **SPECIFICATION:**

Voltage: 240V a.c

Rated Current: 16A

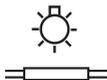
Working Temperature: -20~+40°C

Built-in Timer: 1, 2, 3, 4, 5, 6, 7, 8, 9 Hours

Electronic switch construction:  $\mu$

Maximum 20A MCB circuit protection

Suitable for:



Power Frequency: 50Hz

Ambient Light: <3-500LUX (adjustable)

Working Humidity: <93%RH

IP Class: IP66

Suitable for cables 1.5mm<sup>2</sup> to 4.00mm<sup>2</sup>

LED (SBL) rating to 400W

### **FUNCTION:**

- LUX setting: turn LUX knob anti-clockwise to "3" position. The photocell will only work in the dark (less than 3LUX). If turned clockwise to "500" position, it will work when the ambient light is less than 500LUX.
- TIME setting: you can set the regular working hours of the photocell as needed.

## INSTALLATION:

1. Isolate power supply at switchboard.
2. Loosen 4x screws on face plate and remove the mounting box – FIG 1.
3. Use a screwdriver and hammer to remove any needed knock outs to make 25mm entry points – FIG 2.
4. Install supplied conduit fittings to bring supply and switched cables into mounting box where needed – FIG 3 & 4.

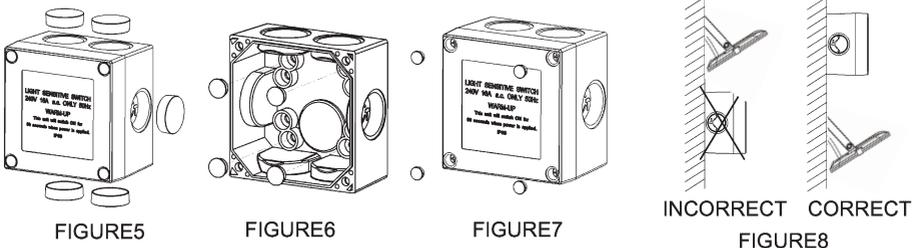
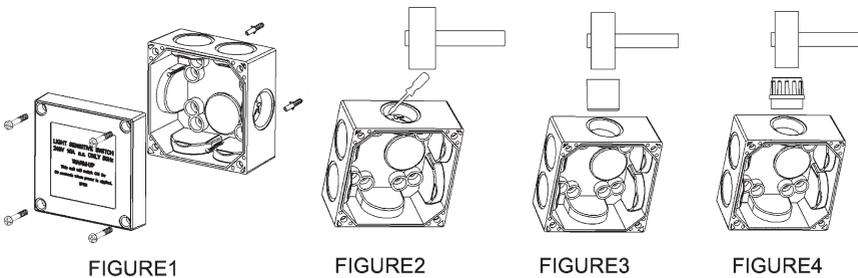
**NOTE: Sealant/PVC glue must be used to maintain IP status.**

6. Secure backing box to mounting surface with supplied screws and wall plugs.

**NOTE: Make sure mounting location is away from direct lighting sources – FIG 8.**

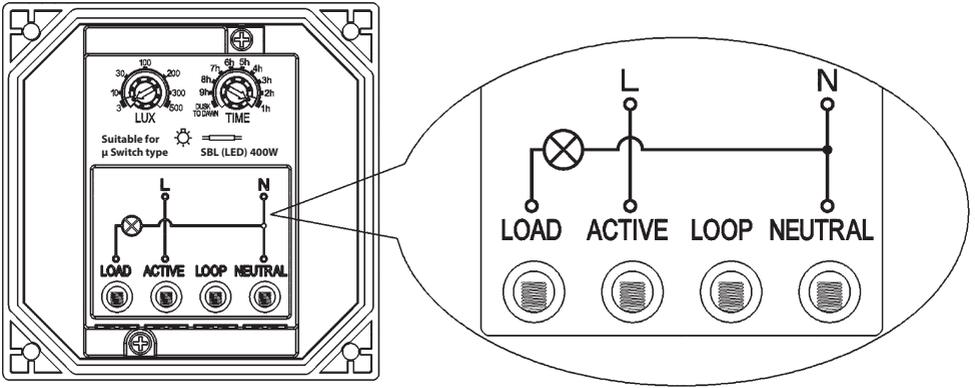
7. To avoid water and dirt building up in the unopened knockouts TRADER recommends installing all supplied entry caps.
8. Wire PE cell as per wiring diagram supplied (Marked on product).
9. Install terminal cover to ensure cables are correctly insulated. Trim the cover if necessary to fit multiple cables. Live terminals **MUST** be insulated away from the adjustment settings.
10. Turn on supply at switchboard.
11. Test the Sunset switch – as per Test section
12. Adjust “LUX” and “TIME” settings on the cell to the required setting.
13. Ensure all screws on PE cell are done up tight to the mounting box and all supplied covers are installed on screw holes – FIG 7.

**If drain hole required, please drill 5mm hole on the lower surface 5mm from where product mounts wall as shown in box marking.**

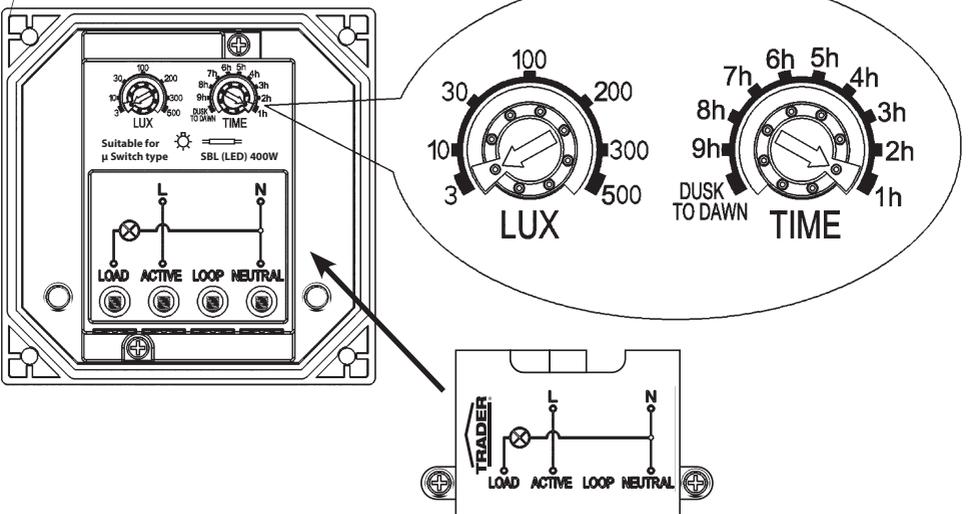


## CONNECTION WIRE DIAGRAM:

1.



2.



### TIME SETTING:

The LED indicator inside the sensor will flash to display the preset times as following:

- |                               |   |
|-------------------------------|---|
| 1) 1 hour: flash one time     | 6) 6 hours: flash six times               |
| 2) 2 hours: flash two times   | 7) 7 hours: flash seven times             |
| 3) 3 hours: flash three times | 8) 8 hours: flash eight times             |
| 4) 4 hours: flash four times  | 9) 9 hours: flash nine times              |
| 5) 5 hours: flash five times  | 10) dusk to dawn: rapidly flash ten times |

LED Indicator will only be visible when LUX level is lower than set value.

## TEST:

- Upon initial energisation the PE Cell will engage for 1min before turning off.
- Set LUX indicator to a point where the red LED indicator on front cover turns off.
- Install test cover over the front of the sensor.
- The unit will switch on after a 1 min delay.
- Remove the test cover and the unit will switch off after 1 minute.

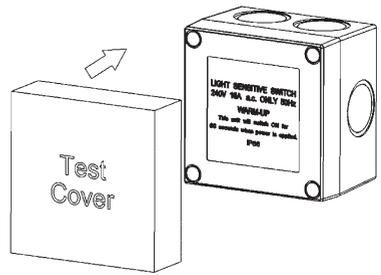


FIGURE9

## NOTES:

- Mounting location must be away from any direct artificial light. Sensor should avoid light received from switched load of sensor. This will avoid unwanted activation and extend the life of the unit.
- If possible, avoid mounting in direct sunlight to increase the service life.
- Do not mount unit indoors, light sources through windows will provide a false reading on the sensor.
- On initial energisation the PE cell will activate for approx. 1min.
- The sensor will have a delay of 1-2mins between activations of light levels.
- Ensure all entries are sealed with a silicon (or equivalent) sealant to maintain IP status.
- Ensure all screws and remaining unused knockouts are sealed using supplied pips/caps.
- Ideal mounting locations should be on flat non-porous surfaces. To maintain IP status on other mounting surfaces extra sealant must be used.
- This product MUST be installed by a licenced electrician.
- When using the timer function, if the power is turned off for more than 2-5 seconds the timer will reset.