

# GREEN BROOK ELECTRICAL

## Installation Instructions for 'Orion' Range Remote Photocell - PEC20

**Please read these instructions carefully  
before attempting installation.**

### **IMPORTANT**

**This product should be installed by a competent person  
and in accordance with the current IET Wiring Regulations.  
If in doubt, consult a qualified electrician.**

### **SAFETY INFORMATION**

- Before installation or maintenance ensure that the mains supply is switched off and the circuit supply fuses are removed or circuit breaker turned off.
- This unit is of class II construction and must NOT be earthed.
- IP65 rated suitable for external applications (When Fitted).

### **INSTALLATION**

Carefully choose the correct position to install the photocell considering the following guide lines:-  
Where possible there should be clear open view with no obstructions and situated away from the light source the unit is to control.

1. Securely fix the photocell through a 16mm clearance hole using 2 locking rings and 'O' rings which should be positioned either side of the hole with the 2 'O' rings closest to the hole to form a water tight seal.
4. Terminate the 3 cables observing the correct connections:-

**Brown = Live (supply in)**

**Blue = Neutral**

**White = Load (supply out)**

### **OPERATING & TESTING**

1. The photocell always powers up in the 'On' position, if in bright daylight it will switch off within 2 minutes, normal operation will then resume.
2. To test for correct operation cover the photocell, after a short delay, 15-120 seconds the photocell will operate and power will be applied to the load. If tested in bright daylight after a similar delay the photocell will turn off the power to the load.

## COMMON PROBLEMS

1. The Load stays on: -
  - The photocell is in a shady or dark position
  - The neutral is not connected
2. The Load is flashing, strobing or switching on and off repeatedly through hours of darkness:-
  - The photocell is too close to the light source it is controlling
  - "LIVE(BROWN)" & "LOAD(WHITE)" are reversed

**Note:** These photocells are LED compatible and can run up to 400 watts, the number of light fittings should be limited to no more than **10 fittings**.

## TECHNICAL INFORMATION

Rated Voltage:	230V~50Hz
Rated Load:	2.1A 500 Watts tungsten, 3.5A 850VA Inductive Load LED compatible 400W Max (max 10 fittings)
Operating Temp:	-40°C to +70°C
IP Rating:	IP65 (when fitted with suitable mount)
Ambient Light:	ON <20 LUX (Dusk) OFF >80 LUX(Dawn)
Maximum Switching:	3.5A
Electrical Life:	3650 cycles
Dimensions:	52 x 29 x 21mm
Conforms To:	EN IEC61058-1:2018 EN61058-1-1:2016 BS EN IEC61058-1:2016 BS EN 61058-1-1:2016

### NOTE:

#### Product & Packaging Disposal

When disposing of this item and its packaging please follow local regulations and use an appropriate waste disposal centre.  
See GreenBrook website for further details.

PLEASE KEEP THESE INSTRUCTIONS  
SAFE FOR FUTURE REFERENCE

**GUARANTEE**  
Your GreenBrook Remote Photocell  
is guaranteed for 1 year from  
the date of purchase.  
This is in addition to your statutory rights.



**GREEN  
BROOK**  
ELECTRICAL  
WEST ROAD . HARLOW  
ESSEX . CM20 2BG . UK  
info@greenbrook.co.uk  
www.greenbrook.co.uk