

# Photocell

## Instructions Page 1



For models: PC10A & PC10AH

**This installation must be carried out by an electrician.**

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

**Leave a copy for the user/maintenance engineer for future reference.**

### Specification

- Photocell kit & Photocell Head
- Class II construction and must not be earthed.
- Switching Loads: 1000W resistive, 1800VA inductive
- Temperature range:  $-40^{\circ}$  –  $+70^{\circ}$
- IP65 rated and suitable for external applications.
- Supply voltage: 240v 50Hz rated.
- Max Switching Capacity: 10A
- CE Approved.

### Important Installation Information

- Before installation or maintenance ensure that the mains supply to the unit is switched off and the circuit supply fuses are removed or circuit breaker turned off.
- It is recommended that a qualified electrician is consulted or used for the installation of this photocell and installed to the current edition of the IEE wiring regulations.

### Installation Instructions

- Carefully choose the correct position to install the photocell kit considering the following guide lines:
- Where possible there should be a clear view of the sky, allowing sufficient distance when mounting under eaves.
- For optimum performance the position chosen should have a clear view of North.
- Be away from view of any artificial light source.
- Be away from view of the light source the unit is to control.

- Be inaccessible to unauthorised persons.
- Securely fix the base holder to a vertical wall so that the head will be facing up when fitted.
- Fit the gasket into the base holder foam side up.
- Enter the supply & load cable into the base through the hole in the bottom of the base ensuring that a cable gland grommet or sealing compound is used to maintain the IP rating of the unit.
- Terminate the cable into the NEMA socket observing the correct connections;
  - “LI” = LIVE (Supply In)
  - “LO” = Load (Supply Out)
  - “N” = Neutral (The neutral to the load does not need to pass through the unit and can be taken directly)
- Place the NEMA socket into the base holder with the arrow printed on the socket pointing towards North. If North is located behind the unit towards the mounting surface then the arrow should be aligned pointing in the direction of best natural light.
- The base holder has 2 locating pins for the NEMA socket to fit onto, the NEMA socket should then be secured using the 2 counter sunk self tapping screws provided.
- Align the largest of the 3 brass feet marked 'Neutral' on the photocell head with the largest slot in the NEMA socket, push the photocell head into the NEMA socket and gently turn clockwise to lock into place.

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### Operation & Testing

- The photocell always powers up in the "On" position, if in bright daylight it will switch off within 2 minutes.
- To test for correct operation cover the photocell with the packing box, 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 when the packaging box is removed.

### Common Problems

- The Load stays on:
  - The photocell is in a shady or dark position.
  - The neutral is not connected.
- 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.
  - "LI" & "LO" are reversed.

### Guarantee

This product is guaranteed for a period of 1 year from the date of purchase. The guarantee is invalid in the case of improper use, tampering, removal of the Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations (BS7671). The guarantee is also invalidated if the luminaire has been Mega tested. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product. If a PIR is used in conjunction with any Red Arrow lighting product we do not accept any responsibility for premature failure of lamps or control gear. Your statutory rights are not affected. We reserve the right to alter specifications without prior notice.



Product is suitable for mounting on flammable material



Product complies with all relevant European standards