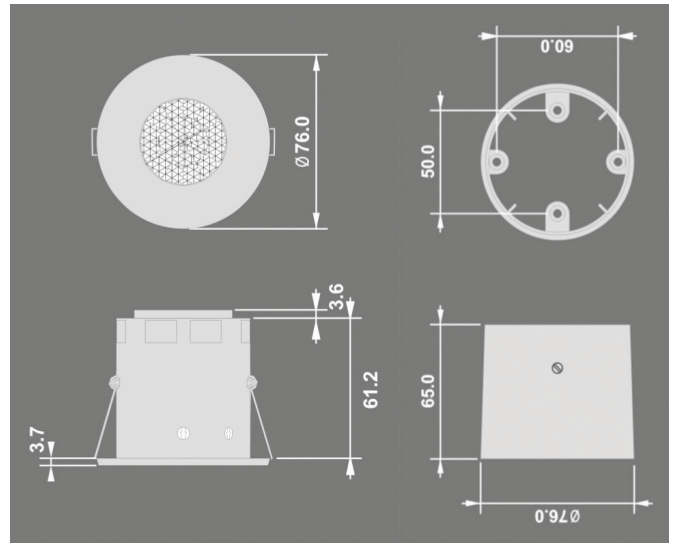


PRE3205 Dimmable Ceiling Mounted Photocell



Installation:

LOAD

Switching:

10A of lighting and or ventilation including incandescent, fluorescent, compact fluorescent, low voltage (Switch primary of transformer).

Dimming:

Maximum number of DSI or DALI ballasts is 10 unless the relay is disabled then it is 20.

SUPPLY VOLTAGE: 220-240 Volts AC 50 Hz

LIGHT LEVEL: Adjustment 100 LUX to 1000 LUX approx.

TERMINAL CAPACITY: 2.5mm²

MATERIAL: Flame retardant ABS, fixing clip polypropylene

TYPE: Class 2

TEMPERATURE: -10°C to 35°C

Operation:

The PRE3205 dimming photocell automatically adjusts the light output of luminaires depending on the amount of natural light available, to maintain constant brightness (maintained illuminance) using either DSI or DALI digital dimming protocol. An optional manual control, using a switch input, allows the user to override the dimming levels and turn the output on and off.

In addition to changing the output level, the photocell can be set to turn lighting on when the ambient light falls below a preset level. The lighting can also be set to turn off when the total light level rises above a separate preset level. An integral, adjustable time delay prevents nuisance switching caused by, for example, dark clouds. An integral infra-red sensor in the unit allows the unit to be programmed using the Optional PRE5900L programming handset. This gives complete flexibility over many

of the operating parameters. Without the handset, manual adjustments can be made to the lux settings using the controls on the rear of the sensor head.

The PRE5900L user handset can be used to change output lux levels and override the lights on or off. The photocell is supplied to be used with DSI dimming as standard. If the unit is to be used with DALI dimming protocol, this can either be pre-programmed before leaving the factory (please contact Sales for further details), or the PRE5900L programming handset can be used to program the photocell when installed.



Installation Instructions:

1. Make sure the load is connected and in working order.
2. Isolate the mains supply to the circuit at the main consumer unit.
3. Connect the controller via the terminal block. Live supply to the L terminal, Neutral to the N terminal, and dimming ballast to the DIM- and DIM+ terminals.
4. Use a small screwdriver to set the TIME thumbwheel to minimum.
5. Use a small screwdriver to set the LUX thumbwheel to minimum.
6. Power the unit up.
7. Slowly adjust the LUX thumbwheel to achieve the desired lux level at the working plane.
8. The TIME setting changes the response time of the sensor. At minimum the lux level changes rapidly, at maximum it changes slowly. It is recommended to use the minimum timing for setup purposes and then to leave it midway.

WARNING! This device works at mains potential. Be sure to take care when working with electricity.



Wiring:

Wire the products as in the diagram opposite. This product provides a dimming signal for the control of suitable fluorescent ballasts. It does not provide a switching signal.

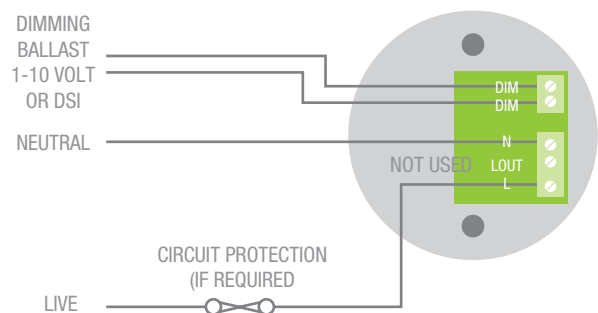
- For best results the unit should look towards working plane.
- Do not angle the sensor to point directly at the sun.
- Site the sensor so that it does not look directly at the light that it is controlling.

To flush mount:

- Cut a 86mm hole in the ceiling.
- Insert the mounting clip into the hole and carefully push the two fixings on the arms downwards until they grip firmly to the ceiling.
- Unscrew the back plate, connect (see below) and re-fix the back plate.
- Push the unit into the clip and setup as instructed.

To surface mount:

- Unscrew the back plate and fix straight to the ceiling or to a BESA box.
- Connect and re-fix the back plate Setup as instructed.



Fault Finding:

Load does not come on:

Check to see if the live supply to the circuit is good. Strap across the L and LIVE OUT terminal to turn the load on.

For LUX versions only, if the supply and wiring are good, check the LUX level setting. Increase the LUX level setting to allow the controller to turn on at higher ambient natural light level.

LIGHTS DO NOT GO OFF

Ensure that the area is left unoccupied for a greater time period than the time out period set using the switch.

Make sure that the sensor is not adjacent to circulating air, heaters or lamps.



Specification:

Load:

- 16 Amp resistive load
- 10 Amp incandescent lighting
- 6 Amp fluorescent lighting
- 3 Amp compact fluorescent lighting
- 3 Amp low energy lighting
- 3 Amp low voltage lighting (switch primary of transformer)
- Fluorescent lighting (max 6 fittings recommended)
- For fluorescent lighting total power factor correction capacitance must not exceed 40µF.
- 3 Amp fans and ventilation equipment
- Switch SON lighting loads via a contactor

SUPPLY VOLTAGE: 220-240 Volts AC 50 Hz

TIME OUT PERIOD: Adjustable 10 seconds to 60 minutes in two ranges

LIGHT LEVEL: Optional adjustment by thumbwheel light to dark.

FIXING METHOD: Surface fixing 25mm deep plastic surface mount moulded box. Flush fixing 25mm steel wall box or 32mm deep cavity wall box.

TERMINAL CAPACITY: 4.0mm²

MATERIAL: Flame retardant ABS

TYPE: Class 2

TEMPERATURE: -10°C to 35°C

CONFORMITY: EMC-89/336/EEC-LVD-73/23/EEC

IMPORTANT NOTICE! This device should be installed by a qualified electrician in accordance with the latest edition of the IEE wiring regulations.

