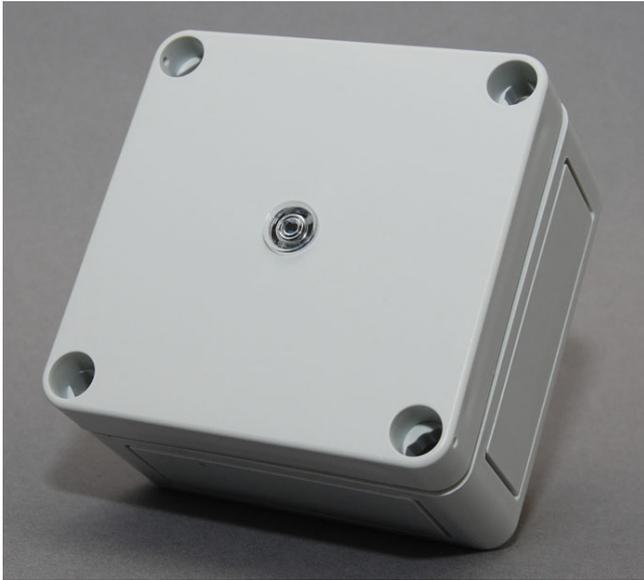


# PRE3206 IP66 Photocell



## Operation:

The PRE3206 twilight switch will turn artificial lighting on when the ambient light falls below a preset level.

The artificial lighting will then be turned off either when the ambient light exceeds the preset level (auto off) or after a preset time delay (timed off).

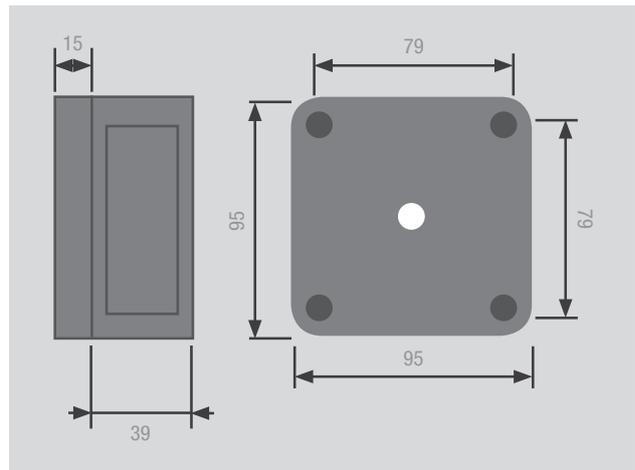
For example, in the auto off mode the PRE3206 can be used to switch external security lights on at dusk and automatically switch them off again at dawn.

In the timed off mode display or sign lighting can be set to turn on when it gets dark and stay on only for a set time period. An integral 2 minute time delay prevents nuisance switching caused by, for example, car headlights or dark clouds.

The unit has a highly accurate adjustable photocell; a selectable time delay; adjustable switching differential and is mounted in a vandal resistant IP66 enclosure.

## Specification:

- SUPPLY VOLTAGE:** 220-240 Volts AC 50 Hz
- TIME OUT PERIOD:** Adjustable 1 hour to 16 hours or AUTO OFF.
- LIGHT LEVEL:** Adjustment 10 LUX to 1000 LUX approximately.
- TERMINAL CAPACITY:** 2.5mm<sup>2</sup>
- IP RATING:** IP 66
- MATERIAL:** Polystyrene
- TYPE:** Class 2
- TEMPERATURE:** -10°C to 35°C
- CONFORMITY:** EMC-89/336/EEC



## 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.
4. For direct switching applications link L to COM and take the output from the NO terminal.
5. Set the TIME thumbwheel to AUTO OFF by turning fully anticlockwise
6. Set the LUX thumbwheel to LATE by turning fully clockwise.
7. Set the DIFF (differential) thumbwheel half way.
8. Power the unit up.
9. The lights will not come on until the ambient light level is very low.
10. Adjust the LUX level and differential using the guide overleaf.
11. Finally set the TIME thumbwheel to AUTO OFF or the desired time setting.

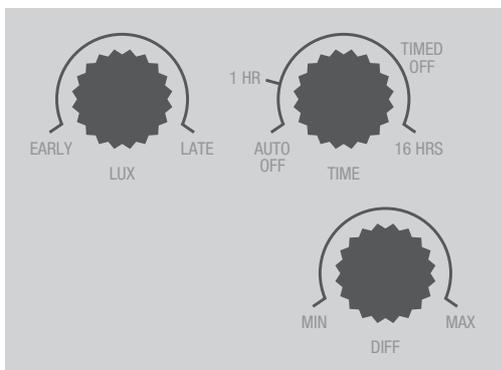
*WARNING! This device works at mains potential. Be sure to take care when working with electricity.*



## Installation Instructions:

### ADJUSTING THE LUX LEVEL

1. The best time to set the LUX level is when the unit is just required to turn on.
2. Leave the TIME and DIFF thumbwheels set as above.
3. Turn the LUX thumbwheel very slowly anticlockwise towards the EARLY position until the lights come on.
4. There is a 2 minute time delay to prevent nuisance switching. This is automatically disabled whenever the LUX thumbwheel is turned, and then re-instated automatically after a further 2 minutes.
5. Turning the LUX thumbwheel to EARLY switches the unit earlier in the day, i.e. when ambient conditions are lighter. Turning to LATE switches the unit later in the day, i.e. when ambient conditions are darker.



Thumbwheel Settings

### ADJUSTING THE DIFFERENTIAL

1. After the unit has turned on, the differential is used to determine at what level of measured light to switch off again. It is only relevant in AUTO OFF mode.
2. If the differential is set to minimum the unit will turn off when the measured light is only a tiny bit greater than the level at which it turned on.
3. If the differential is set to maximum the unit will turn off then the measured light is much greater than the level at which it turned on.
4. If, say, the unit is set to turn on at dusk, set the differential lower (anticlockwise) if you want the lights to turn off again early in the morning and set the differential higher (clockwise) if you want the lights to turn off again when it is much lighter.
5. The differential is also useful if the unit can see the lights which it is controlling. In this case increasing the differential will prevent cycling of the lights.

## Wiring:

Wire the PRE3206 product as in the diagram. The unit has a voltage free changeover output which can be used to switch, say, a BMS or lighting control system as well as switching a load directly.

To switch a load directly link the L and COM terminals and take the output from the NO terminal.

- Where possible site the sensor as high as possible on a north facing vertical surface
- Avoid locating the PRE3206 in direct sight of the light that it is controlling.
- Ensure that all cable entry to the enclosure is via suitable cable glands and seal with silicone sealant where appropriate.
- If it is necessary to screw through the rear of the enclosure ensure that any holes are covered with the caps provided and sealed with silicone sealant where appropriate.

