

Setting up TIME and LUX

The TIME is set by lining up the adjuster with the appropriate dot, clockwise: 10s, 20s, 40s, 1m20s, 2m40s, 5m, 10m, 20m, 40 minutes.

It is best set up the LUX when the local ambient light level is close to the minimum desired working light level (a lux meter placed on the working surface may help). With the LUX set fully clockwise, slowly move it anticlockwise (- to +). When the LED changes from green to red, the LUX threshold is set to the present lux level.

This same LUX setting point can be used for other devices located where the current lighting level is not at the desired minimum working level.

Fault finding

LED will not turn green at start of LUX set up:

- Turn LUX further clockwise, switch PIR to LOW LUX setting.

LED will not turn red during LUX set up:

- Ensure PIR in HIGH LUX setting, turn LUX further anticlockwise.

Relay clicks off but load stays on:

- Small fluorescent or LED load, augment with CAPLOAD across load
- Fault developed due to overvoltage spike

LED flashes continually:

- Fault developed, recycle supply.

Precautions and Warranty

This product conforms to BS EN 60669-2-1.

Please ensure the most recent edition of the appropriate local wiring regulations are observed and suitable protection is provided e.g. 6 amps over current, 1kV over voltage. Please ensure that this device is disconnected from the supply if an insulation test is made.

This product is covered by a warranty which extends to 5 years from the date of manufacture.

Products available from DANLERS

- PIR occupancy switches • Daylight linked dimmers • Manual high frequency dimmers
- Photocells • Radio remote controls • Time lag switches • Outdoor security switches
- Dimmers • Heating, ventilation and air-conditioning controls • Bespoke / O.E.M. products

Please call for more information or a free catalogue, or visit our website.

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Installation notes

PIR Occupancy Switch Modules (10 metre)

GREUW PIR10E

GREUW PIR10X

GREUW PIR10EP

GREUW PIR10XP

GREUW PIR 10EA

DANLERS 10 metre PIR occupancy switch modules can be mounted into a luminaire via a mounting bezel. (GREUW BEZEL)

They incorporate a passive infra-red quad sensor to detect movement of a warm body within their detection zone and a photocell to monitor the ambient light level.

On detecting movement, if the ambient light level is not above an ambient threshold, the PIR will switch the load on.

The ambient threshold can be set by the user to between approximately 100 lux and infinite lux (photocell inactive) via the LUX adjuster. This lux range is obtained in the HIGH LUX setting, set via the side adjuster, which can be slid with a small flat blade screwdriver. A LOW LUX range which goes down to approximately 15 lux (maximum approx. 800 lux) is also available. See diagrams 1 and 2.

If no more movement is detected within a certain time, then the PIR will switch off the load.

The time can be set via the TIME adjuster to 10 seconds, 20s, 40s, 1minute 20s, 2m40s, 5m, 10m, 20m or 40minutes. See diagram 1.

These PIRs are best suited for warehouses, sports halls and circulation areas etc, where there is likely to be a significant level of movement. They are not suitable for wall mounting.

Variants

Variants are defined by the last characters of the part number:

- E or X Exposed or hidden adjusters, see diagram 3.
- P Photocell overrides the PIR during occupancy, see below.
- A Aisle version, see diagram 4.

P Variant: If the ambient light level goes above the LUX threshold, and stays there for the set TIME, then the Photocell will switch off the load regardless of the PIR sensing any movement during the TIME period. This variant is designed for warehouse applications.

Loading limits

DANLERS PIR modules can switch up to 6 amps (1500W) of:

- Fluorescent lamps; either high frequency or switch start
- Incandescent or mains halogen lamps; integral safety fuse recommended.
- Electronic or wire wound transformers.

They can also switch up to

- 2 amps (500W) of Compact fluorescent or LED lamps (typically 50 lamps)
- 1 amp (250W) of Fans.

To switch larger loads or discharge lamps a contactor should be used.

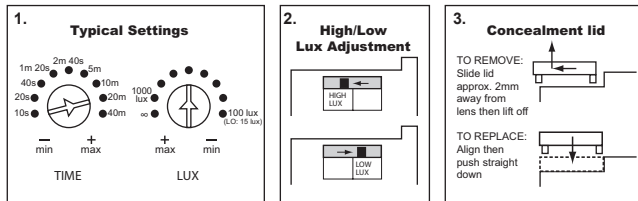
Installation procedure

1. Please read these notes carefully before commencing work.
In case of doubt please consult a qualified electrician.
Make sure the power is isolated from the circuit.
2. PIR modules should be installed to achieve correct coverage of the working area, see diagram 4.
3. The greatest energy savings will be made if the PIR modules individually control a set of lamps. They can be wired in parallel but this should ideally be limited to three or less.
4. The PIR modules should be connected as:
L Live
N Neutral
SL Switched Line output
5. Typical wiring diagrams are shown in diagrams 5 & 6.
6. Once the wiring has been completed and verified, switch on the supply and test the operation.

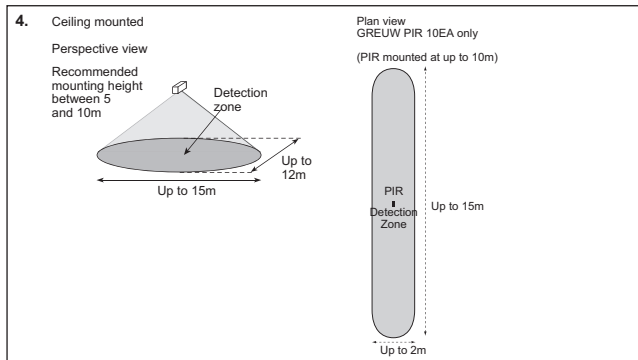
Start up mode

When the PIR module is powered up, the LED just above the TIME adjuster will flash five times - green if it is set to the HIGH LUX range (factory default) or red if set to the LOW LUX range. It will then switch on the load for 10 seconds. Once the load switches off, the PIR module is in operating mode.

Adjustment diagrams



Detection diagram



Typical wiring diagrams

