

Variants

As DANLERS design and manufacture in the UK, variants can be supplied, coded by the following suffixes and applied in this order:

- 12V or 24V 12V or 24V (ac or dc) operation
- VF Volt Free contacts
- G or LG Gold or Logic Gold contacts
- NC Normally Closed contacts
- SD Barrel fixed in the Straight Down position.

Variant details are covered in an enclosed addendum sheet if applicable.

Troubleshooting

The load will not switch on:

- The LUX adjuster is set too low and is inhibiting the switch.
- The moving body is not emitting more IR than the background.
(Person wearing insulating clothing in a warm environment)
- Person is too far from the PIR switch, see detection diagram.
- Person is moving unusually slowly (perhaps when testing).

The load switches on when nobody is present:

- PIR located close to a heat source, fan or in draught flow.
- Ceiling movement, especially in metal mezzanine warehouses.

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.

Ceiling directional PIR occupancy switch

CEDR 6PLR

DANLERS ceiling directional long range passive infra-red occupancy switches (PIR Switch) can be ceiling mounted into a Klik-AX socket. These PIR switches incorporate a passive infra-red quad sensor to detect movement of a warm body within their detection zone (diagram A) and a photocell to monitor the ambient light level.

Upon detecting movement, if the ambient light is dark enough, the PIR switch will turn 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 (diagram C).

If no more movement is detected within a pre-selected time, then the PIR switch will turn the load off. This time lag can be set via the TIME adjuster to 10 seconds, 20s, 40s, 1 minute 15 seconds, 2m30s, 5m, 10m, 20m or 40 minutes (diagram C).

Both adjusters are located underneath the end of the adjustable barrel. The barrel of this PIR switch can be rotated through 360 degrees and angled between horizontal and 45 degrees down. The longest detection range is achieved when the barrel is horizontal.

Loading

The standard CEDR 6PLR must only be connected to 230V 50Hz AC.

These PIR switches can switch up to 6 amps (1500W) of:

- Fluorescent lamps, high frequency or switch start
- Incandescent or mains halogen lamps (recommended with integral safety fuse)
- Electronic or wire wound transformers.

They can also switch up to:

- 2 amps (500W) of compact fluorescent, LED and 2D lamps.
- 1 amp (250W) of fans or metal halide lamps.

Larger loads can be switched via a contactor.