

DANLERS

Installation notes

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).
- Please contact DANLERS for further technical support.

Momentary switches

DANLERS can supply a range of Momentary/Retractive switches - push to make or break:

MOMSW MP - Plated grey metal finish with PRESS preprinted on switch.

MOMSW M - Plated grey metal finish with blank switch.

MOMSW WH - Plated white finish with PRESS preprinted on switch

MOMSW WH - Plated white finish with blank switch.

MOMSW PMOD - Grid module suitable for MK Grid Plus with PRESS preprinted on switch.

MOMSW MOD - Grid module suitable for MK Grid Plus with blank switch.

Precautions and Warranty

This product conforms to BS EN 60669-2-1 and BS EN 55015.

Please ensure the most recent edition of the appropriate local wiring regulations are observed and suitable protection is provided e.g. a 10 amp circuit breaker and voltage surge protection. 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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Ceiling surface PIR absence switch/dim control (round)

CESRAPIRSD

DANLERS ceiling surface passive infra-red absence switch/dim controls (CESRAPIRSD) can be mounted directly onto solid ceilings or onto a range of different mounting boxes.

CESRAPIRSD controls 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.

When entering the room, if the ambient light is dark enough, the lights can be activated by using a momentary light switch. The ambient threshold can be set by the user to between approximately 30 lux and 1000 lux and maximum (photocell inactive) at the PIR via the LUX adjuster (diagram B). If no more movement is detected within a pre-selected time, then the CESRAPIRSD will switch the load off. This time lag can be set via the TIME adjuster to 10 seconds, 20s, 40s, 80 s, 2m 30s, 5m, 10m, 20m or 40 minutes (diagram B).

Pressing the momentary switch again (while CESRAPIRSD is in its ON state) will operate the SWITCH AND DIM function of the ballast. Please refer to ballast manufacturer's data sheets for operation and synchronisation of the ballast.

Loading

CESRAPIRSD can switch up to:

6 amps (1500W) of resistive loads.

6 amps (1500W) of fluorescent loads.

3 amps (750W) of electronic and wire wound transformer loads.

2 amps (500W) of CFL, 2D lamps, LED Drivers and LED lamps and fittings.

1 amp (250W) of fans.

Minimum load 2W resistive, suitable for most energy saving lamps, LEDs and emergency fittings.

Installation procedure

- Please read these notes carefully before commencing work. In case of doubt please consult a qualified electrician.
- POSITIONING:** The CESRAPIRSD should be installed to achieve correct coverage of the area, see diagram A. If the photocell override facility is required, the switch must be located above an area where daylight can give greater illumination than the artificial light. Avoid locating this product where it is exposed to windy or drafty conditions (exposed lobbies, open ceiling voids or near ventilation fans) or near heat sources. To cover large areas CESRAPIRSDs should be spaced in a 5 metre grid formation.
- The greatest energy savings will be made if each CESRAPIRSD controls an independent set of lamps. They can be wired in parallel but this should ideally be limited to three, see diagram D.
- Make sure the power is isolated from the circuit. The CESRAPIRSD should be connected as shown in diagrams C & D:
L - Live in. N - Neutral in. SW¹ - Switch input. SL - Switched Line out.
- Knockout or drill the appropriate holes on the mounting plate for attaching the plate to the ceiling or back box (if applicable). Feed cables through the appropriate (side or rear) entry hole. Screw the back mounting plate to the ceiling or back box via the mounting holes. Wire the cables into the sensor head block terminal. Push the sensor head onto the mounting plate and align the side clips with the slots on the sensor heads.

Start-up mode

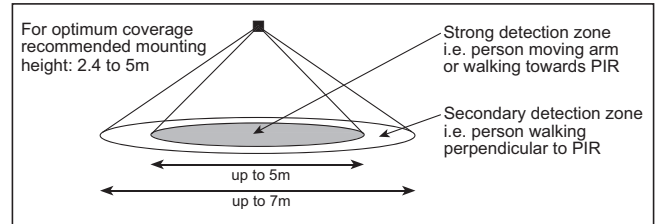
When the CESRAPIRSD is powered up, it will switch on the load for 1 minute, the load will then switch off and the CESRAPIRSD will enter its Operating Mode.

Time and Lux set-up

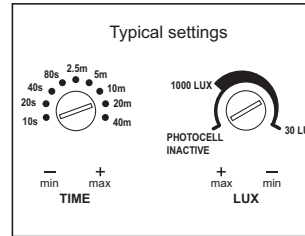
For convenience, ensure that the TIME is set to the minimum when setting up the LUX level. Afterwards set the TIME to a value suitable for the application, making reference to diagram B.

The LUX is best set up when the local ambient light is at approximately the minimum desired working light level. With the LUX set fully clockwise wait for the CESRAPIRSD to switch off. Step the LUX adjuster slowly anticlockwise (- to +), at each position operate the momentary wall switch and continuing until the lamps switch on.

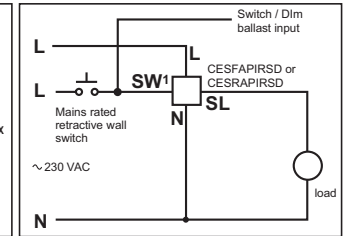
A: Detection diagram



B: Adjusting time and lux



C: Wiring diagram, Single CESRAPIRSD



D: Wiring diagram, multiple CESRAPIRSD's

