

CEPD 17MH, CEPD 17MHBK

IP66 Ceiling Mounted PIR Presence Detection Switches

Input: 220-240 Vac 50Hz

PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLING THE PRODUCT



DANLERS IP66 Ceiling Mounted Person Detector can be ceiling surface mounted or mounted onto the end of lighting battens via the 20mm knock out. The switch includes the connection 20mm thread.

It incorporates a passive infra-red sensor to detect movement of a warm body within the detection zone (diagram 1).

The maximum detection range is up to 24m when mounted at the maximum mounting height of 17 metres over 60 degrees.

Product codes:

CEPD 17MH: White enclosure (Grey front facet).

CEPD 17MH BK: Black enclosure.

INSTALLATION PROCEDURE

1. Please read these notes carefully before commencing work. In case of doubt please consult a qualified electrician.
2. Make sure the power is isolated from the circuit.
3. If mounting on a lighting batten, Remove the 20mm thread from the PIR and insert it through the 20mm knockout hole with the thread facing outwards.
4. The detector should be connected as shown in diagram 3:
L - Live in.
N - Neutral in.
SL - Switched Live out.
5. Feed your cable through the thread and with the PIR facing downwards tighten the 20mm thread to ensure a tight seal.
6. The detector can be mounted up to 17 metres high.
7. The detector can also be mounted via any of the four pre-drilled mounting holes (see diagram 4).
8. Make sure the power is still isolated from the circuit.
9. Once the wiring has been completed and verified, switch on the supply and test the operation.

START UP MODE

When the PIR is powered up, the PIR will switch on the lighting load for 1 minute then switch it off. After 2 seconds it will switch on again if it detects movement. With Time set to minimum the load will

stay on for 10 seconds so the detection range can be easily assessed. If a manual override-off switch after the PIR (diagrams 5 & 6, note 1) it will not enter the start-up mode each time.

LOADING

See overleaf for loading details.

TIME SET UP

If no more movement is detected within a pre-selected time, then the PIR switch will turn the load off.

To set the TIME to a value suitable for the application, turn the PIR time to the desired timeout (diagram 2). This time lag can be set via the TIME adjuster to 10 seconds, 20 seconds, 40 seconds, 80 seconds, 2 minutes, 30 seconds, 5 minutes, 10 minutes, 20 minutes or 40 minutes.

Whenever a person is detected, the time lag will start again and the load will stay switched on.

TROUBLESHOOTING

NOTE: The CEPD 17MH and CEPD 17MHBK do NOT have an integral photocell and cannot be made to switch on / off according to variance in ambient light levels.

The PIR does not detect:

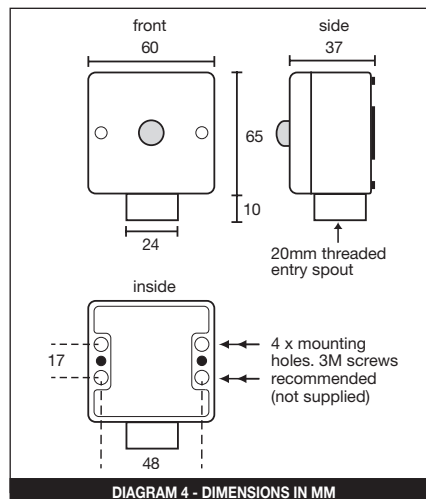
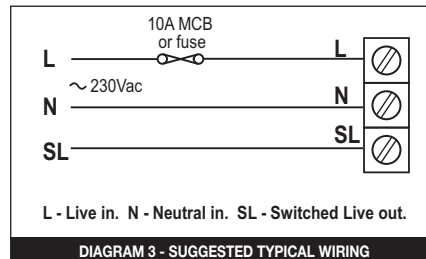
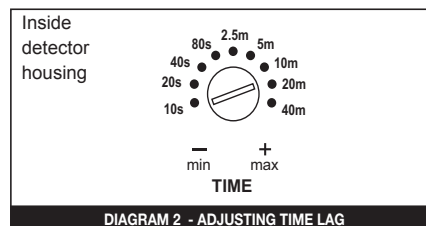
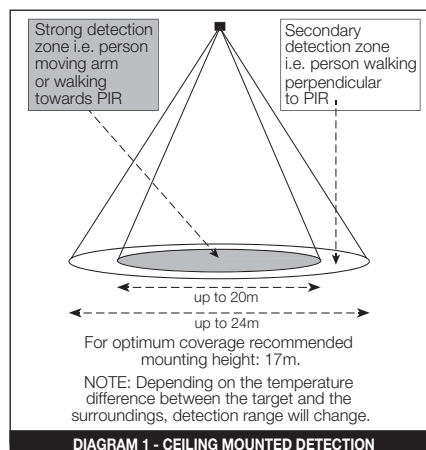
- Check power supply.
- Is there an obstruction in front of the lens?
- Person is too far from the CEPD 17MH switch, see detection diagram 1.
- Person is moving unusually slowly (perhaps when testing).
- To perform detection test - turn the time spindle to minimum setting (10 seconds), cover the lens to stop any further detection - load should switch off in 10 seconds unless going through its START UP MODE (see opposite).

The PIR stops working

- Ensure the unit is mounted correctly so that no water can enter.

The PIR false triggers

- Detector is exposed to air movement on breezy days.



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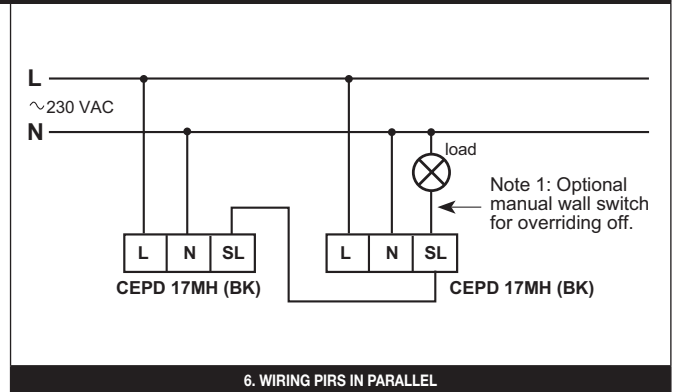
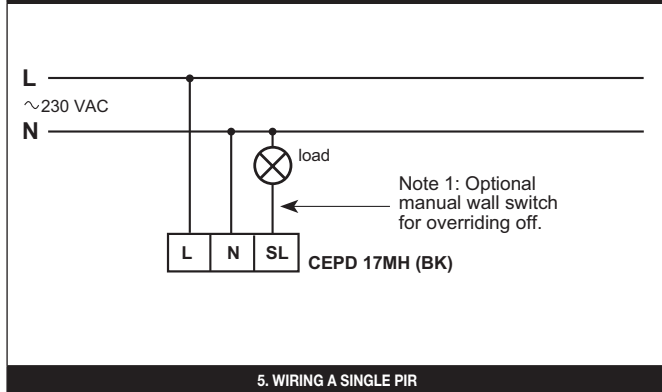
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WIRING DIAGRAMS



TECHNICAL DETAILS

INPUT:	
Voltage:	220 - 240Vac
Frequency:	50Hz
LOADING:	
Resistive loads:	10 amps (2300W)
Fluorescent:	10 amps (2300W)
LED Drivers and LED lamps and fittings:	6 amps (1350W) (PF ≥ 0.95)
Electronic and wire wound transformer:	3 amps (690W)
CFL and 2D lamps:	2 amps (460W)
Fans:	1 amp (230W)
Minimum load	2W resistive, suitable for most energy saving lamps, LEDs and emergency fittings.

OPERATING CONDITIONS:	
The temperature difference between the detection target and the background must be at least 4 °C.	
Note: Depending on the temperature difference between the target and the surroundings, detection range will change.	
Ambient temperature:	-20... +40 °C
Storage temperature:	-25... +75 °C
Max. relative humidity:	0... 80%, non-condensing
CONNECTORS:	
Terminal block Wire size:	0.5mm ² - 2.5mm ² solid or stranded
Wire strip length:	6-7mm
Tightening torque:	0,4 Nm/4 Kgf.cm

MECHANICAL DATA:	
Dimensions:	75mm x 60mm x 37mm
Weight:	100g (unpacked)
Degree of protection:	IP66
Protection class:	Built-in Class 2
Material (casing)	Flame-retardant polycarbonate/ Polypropylene.
Finish / Colour	CEPD 17MH: Matt /White (RAL 9003) CEPD 17MH BK: Black (RAL 9005)
CONFORMITY AND STANDARDS:	
EMC emission:	EN60669-2-1:2004 inc. A12:2010
EMC immunity:	EN60669-2-1:2004 inc. A12:2010
Safety:	EN60669-2-1:2004 inc. A12:2010
Environment:	Complies with WEEE and RoHS directives

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.

Other DANLERS Product ranges

- Remotely adjusted PIR occupancy switches
- Manually adjusted PIR occupancy switches
- Microwave switches
- Daylight linked dimming controls
- Photocell switches
- Time lag switches
- Outdoor security switches
- Dimmer switches inc. LED dimming
- HVAC controls
- Radio remote (RF) controls

Please call for more information or visit our website.

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



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