



## CP electronics EBDMR-PRM PRM Switching PIR Presence Detector Installation Guide

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**CP electronics EBDMR-PRM PRM Switching PIR Presence Detector**



## Product Information

Product Name: WD922 Issue 4 Installation Guide EBDMR-PRM PRM

Switching PIR Presence Detector

Manufacturer: CP Electronics

Product Type: Presence Detector

Model Number: EBDMR-PRM

Website: <http://www.cpelectronics.co.uk/cp/922>

## Product Usage Instructions

1. This device should only be installed by a qualified electrician, following the latest edition of the IEE wiring regulations.
2. The device comes with presence detection as default. To use absence detection, a retractive (momentary) switch must be connected between the 2 terminals on the diagram. Note that this will switch mains voltage.
3. Cut a 64mm diameter hole in the ceiling for installation.
4. Strip the wires as shown in the diagram. The presence detector does not require an earth conductor.
5. Wire in plug/s using the wiring diagram on page 3 as a guide. Connect the plug/s to the detector.
6. Tighten the screws to secure the device in place.

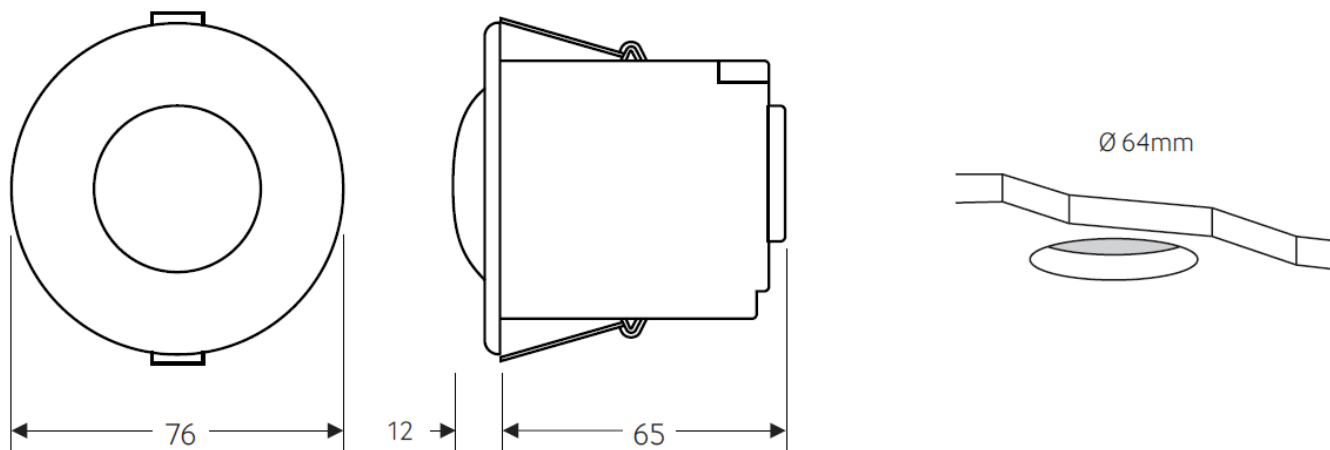
**Note:** The above adjustments can also be made using the optional UHS5 or UNLCDHS handsets. Please refer to the user manual for further details and safety instructions.

### EBDMR-PRM

PRM switching, mid range, ceiling PIR presence/absence detector

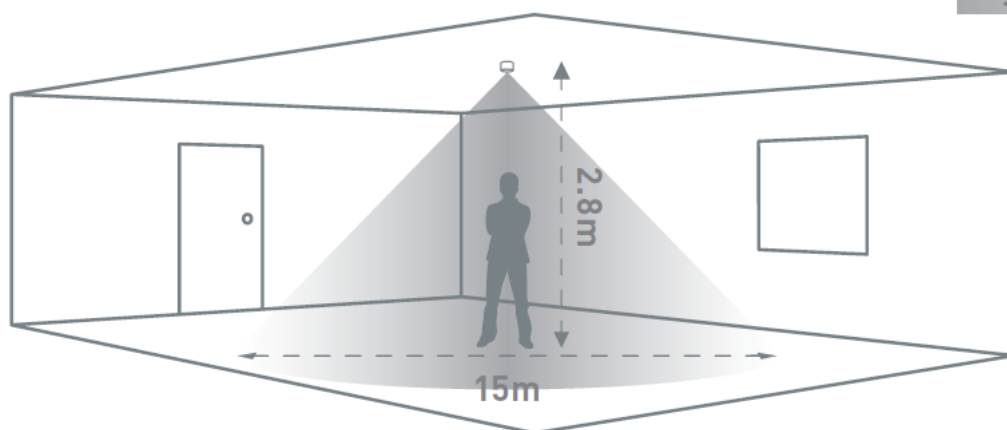
**Warning:** This device should be installed by a qualified electrician in accordance with the latest edition of the IEE wiring regulations.

### Dimensions (mm)

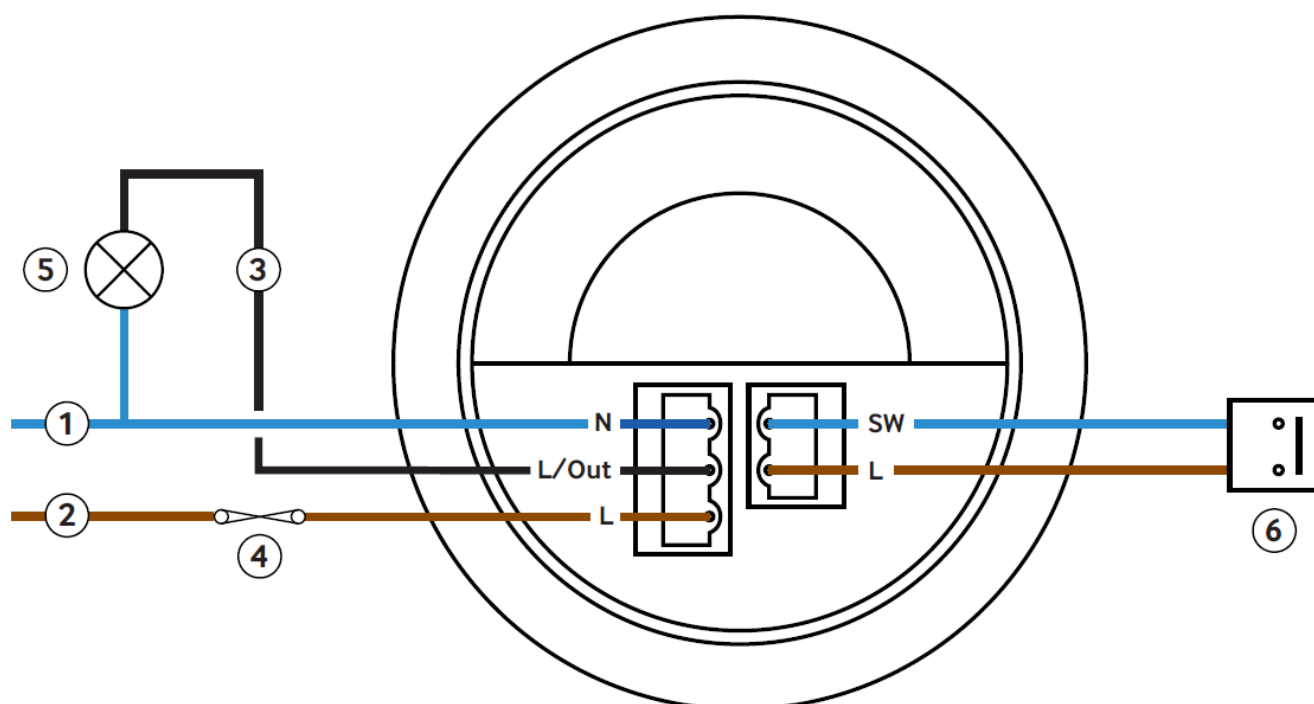


## Detection pattern

high < sensitivity > low



## Wiring



## Key

1. Neutral
2. Live
3. Switched output
4. 10A circuit protection if required
5. Load
6. Momentary push-to-make switch, 230V (for absence detection)

Switching channel is L-Out.

## **Presence or absence detection**

The unit ships with presence detection as default.

- To change over to absence detection, press and release the external switch 5 times within the first minute of power up. The LED will turn on red for 30 seconds to indicate absence mode has been selected.
- To change back to presence detection, repeat the above procedure – the LED will flash red for 30 seconds to indicate presence mode has been selected.

To use absence detection a retractive (momentary) switch must be connected between the 2 terminals on the diagram. Note that this will be switching mains voltage.

**Note:** the above adjustments can also be made using the optional UHS5 or UNLCDHS handsets.

## **Installation**

This device is designed to be flush ceiling-mounted.

- Do not site the unit where direct sunlight might enter the sensor.
- Do not site the sensor within 1m of any lighting, forced air heating or ventilation.
- Do not fix the sensor to an unstable or vibrating surface.
- Occupancy is best detected when the ambient temperature is different to that of the human body, thus, use within -20 to 35°C ambient temperature.

## **Downloads and Videos**

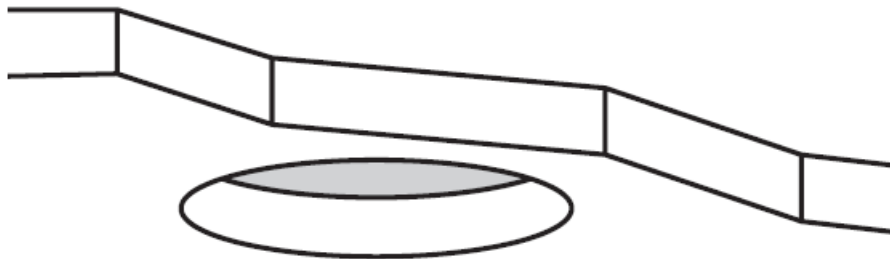


[cpelectronics.co.uk/cp/922](http://cpelectronics.co.uk/cp/922)

**Create cut out**

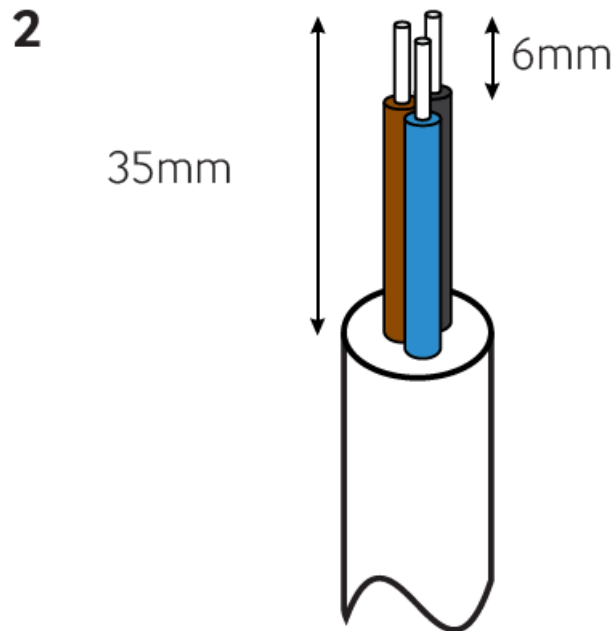
**1**

Ø 64mm



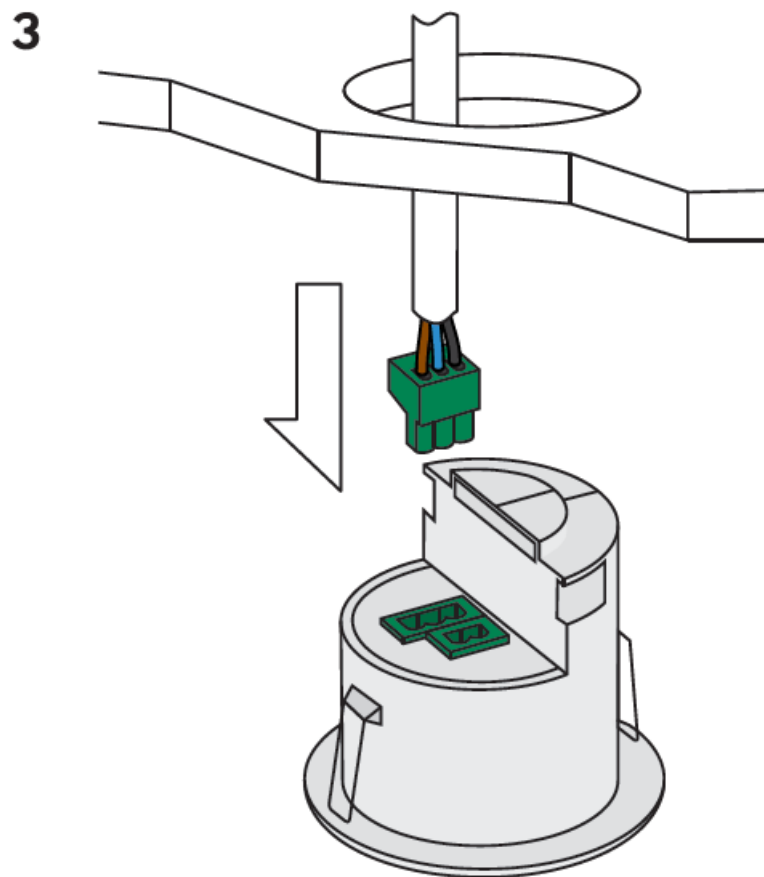
Cut a 64mm diameter hole in the ceiling.

**Wire stripping**



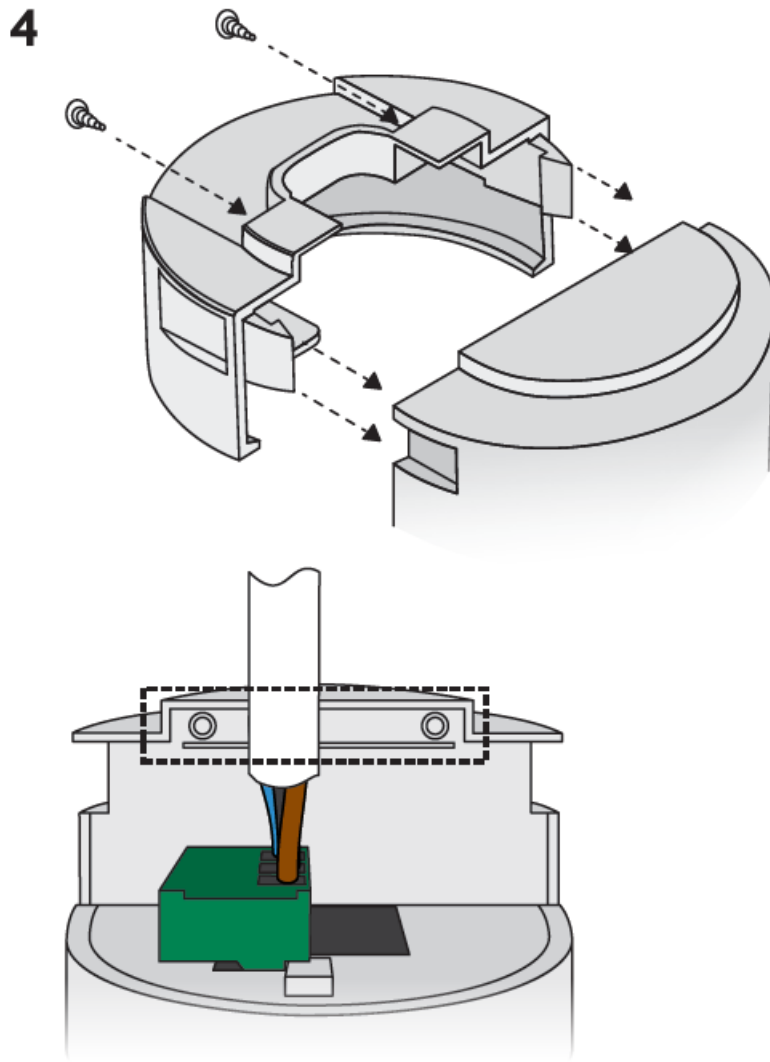
Strip the wires as shown opposite. Presence detector does not require earth conductor.

**Wire in plugs & connect to detector**



Wire in plug/s, using wiring diagram on page 3 as a guide. Connect the plug/s to the detector.

**Clamp cable**



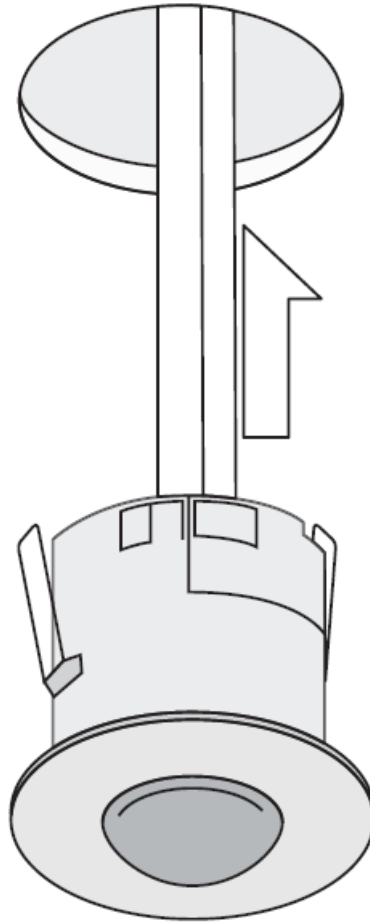
Continue tightening the screws until the clamp bar snaps out and is tightly engaged against the cable/s. The cable clamp must clamp the outer sheath only.

#### **Install detector**

Bend the springs up and push detector through hole in ceiling. When fully inserted the springs snap back to hold the device in place.

To avoid injury, take care when bending springs.

5



### **Default Settings**

- Time out: 20 minutes.
- LUX on level: 999
- LUX off level: 999
- Sensitivity on: 9
- Sensitivity off: 9
- Detection: Presence

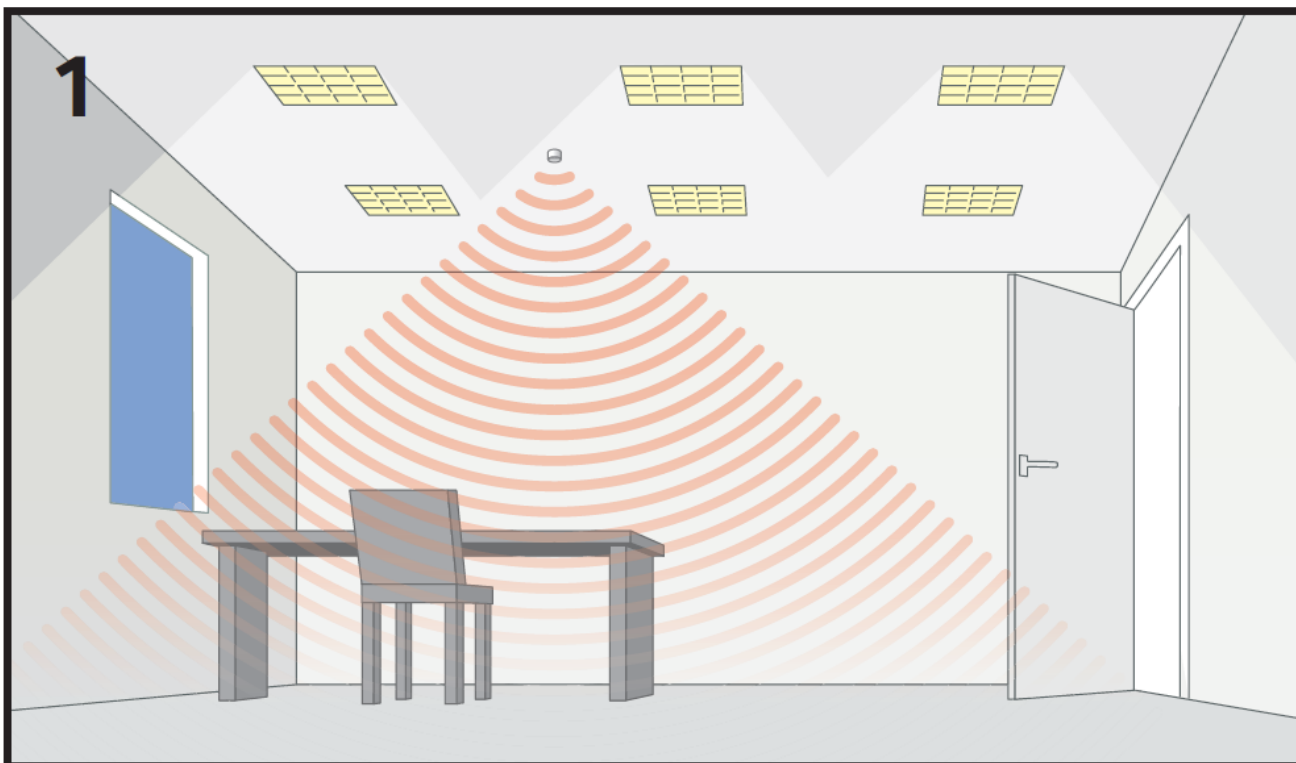
Adjustments can be made using the optional UHS5 or UNLCDHS handsets.

### **Testing**

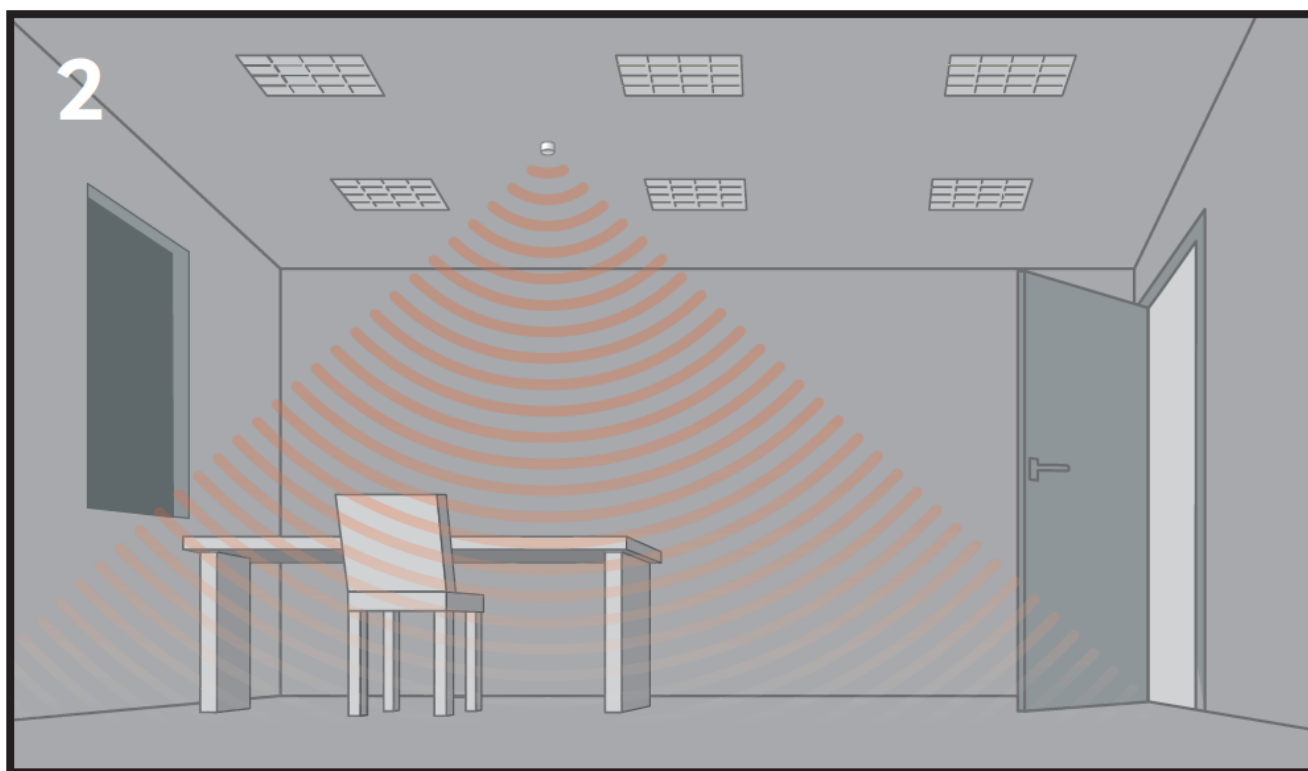
#### **Presence Detection**

1. Power up the sensor. The load should come on immediately.

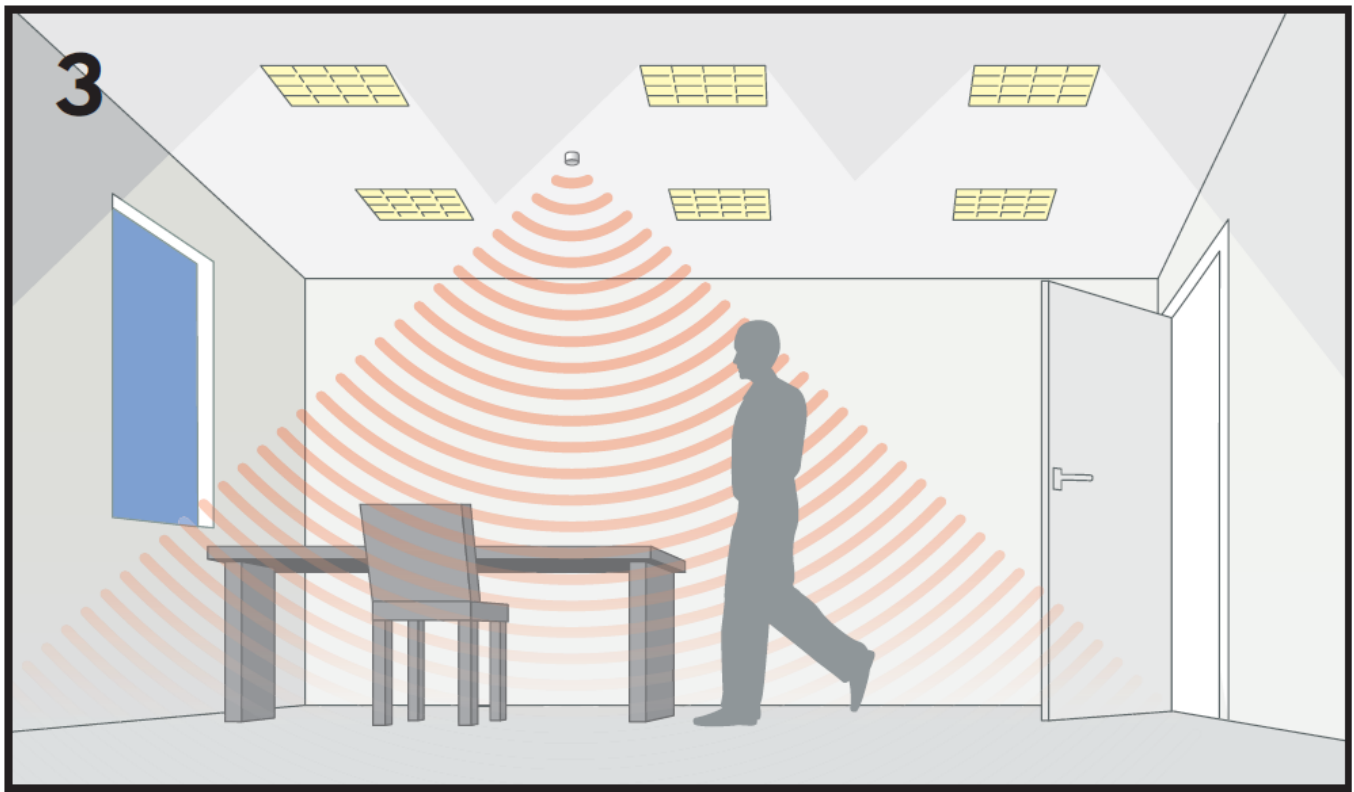




2. Vacate the room or remain very still and wait for the load to switch off (this should take less than 20 minutes).

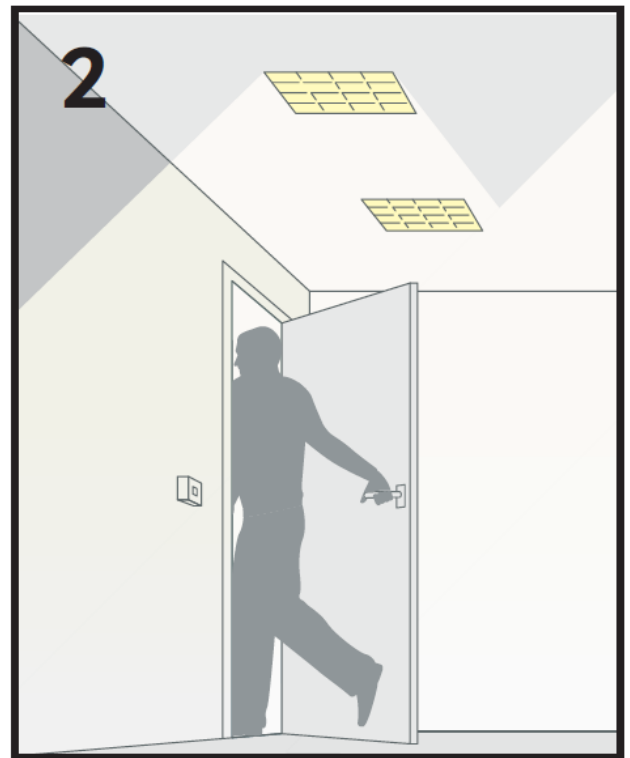
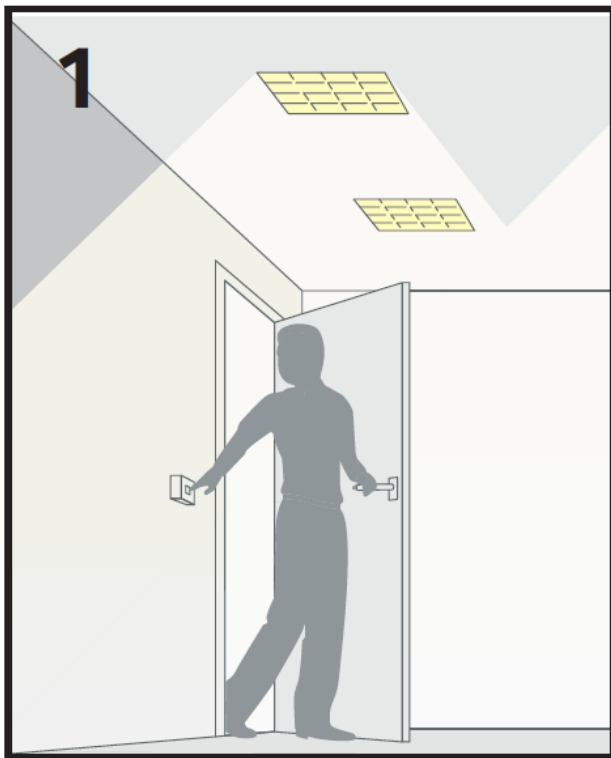


3. Enter the room or make some movement and check that the load switches on.

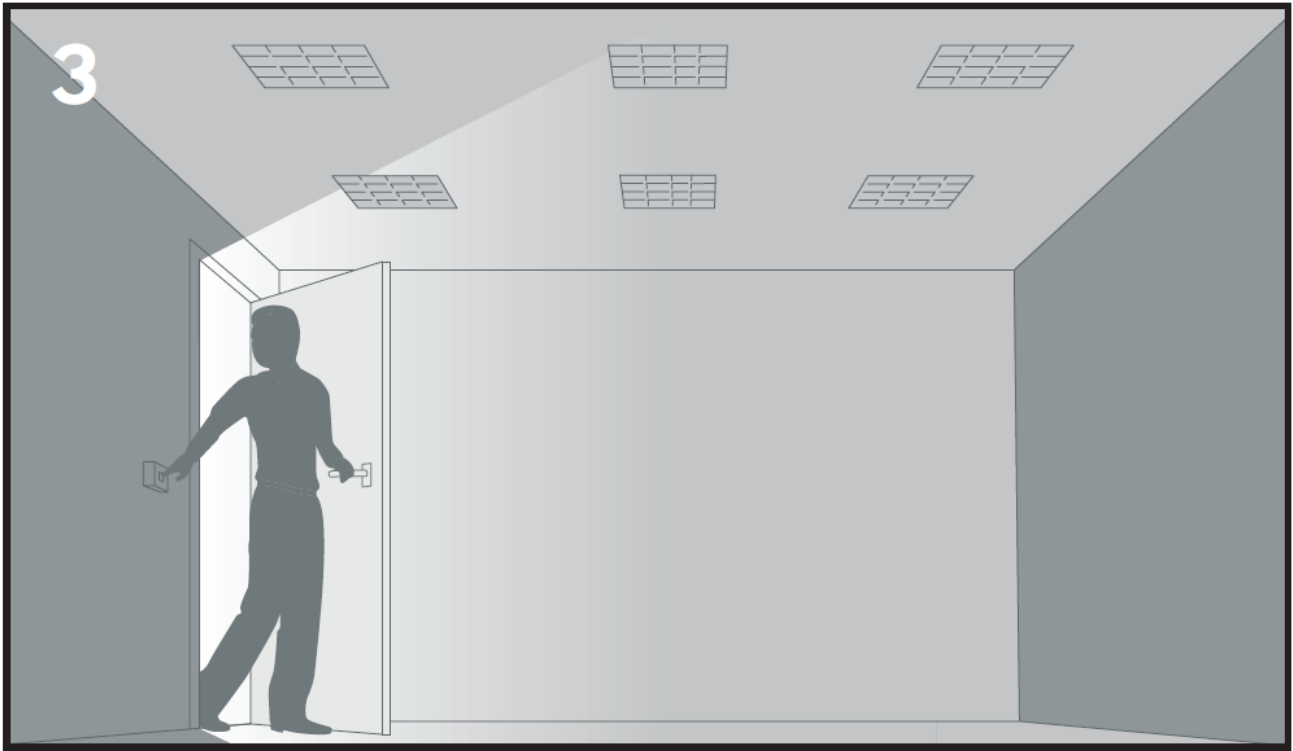


### Absence Detection

1. Power up the sensor. Switch the load on.
2. Vacate the room and wait for the load to switch off (this should under than 20 minutes).



3. Enter the room, the load will remain off until you switch it on again.














## Technical Data

Part code **EBDMR-PRM**

- Weight 0.15kg
- Supply voltage 230 VA C +/- 10%
- Circuit Protection  $\leq 10A$ , MCB Type B
- Supply frequency 50Hz
- Power consumption parasitic 807mW
- Terminal capacity 2.5mm<sup>2</sup>
- Max Switched load ( L-Out )
  - Resistive: Incandescent [10A], Fluorescent [10A]
  - Capacitive, Electronic gear [10A], LED Lighting [10A]
  - Inductive Fan [10A]
  - Load inrush rating, 200A for 300 $\mu$ sec
- Light detection range: Usable 15-950 Lux
- Time out range: 10s–99m
- Working temperature range -10 to 35°C
- Humidity: 5 to 95% non- condensing
- Material (casing): Flame retardant ABS and PC/ABS
- Insulation class: 2
- IP rating: 40
- Compliance: EMC-2014/30/EU, LVD-2014/35/EU


## Accessories & associated products

Part Number	Description
 DBB	Surface mounting box
 DBB-EXT	Surface mount back box extender
 EBD-ENCIP1	Pre-drilled 64mm hole IP65 detector enclosure
 EXD-HSC	Extended wiring housing
 UHS5	Compact, programming/commissioning handset
 UHS7	Compact, user handset
 UNLCDHS	Universal LCD IR handset/commissioning handset

	<p>CP Electronics</p> <p>Brent Crescent, London NW10 7XR t. +44 (0)333 900 0671</p> <p><a href="mailto:enquiry@cpelectronics.co.uk">enquiry@cpelectronics.co.uk</a></p>
<p><a href="http://www.cpelectronics.co.uk">www.cpelectronics.co.uk</a></p>	<div data-bbox="746 320 1331 441">  </div> <p>connect with us</p> <div data-bbox="770 517 1227 640">  </div> <div data-bbox="826 696 1161 808">  </div>
<p>Due to our policy of continual product improvement CP Electronics reserves the right to alter the specification of this product without prior notice.</p>	

WD922 Issue 4 Installation Guide, EBDMR-PRM

## Documents / Resources

	<p><a href="#">CP electronics EBDMR-PRM PRM Switching PIR Presence Detector</a> [pdf] Installation Guide EBDMR-PRM PRM Switching PIR Presence Detector, EBDMR-PRM, PRM Switching PIR Presence Detector, Switching PIR Presence Detector, PIR Presence Detector, Presence Detector, Detector</p>
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## References

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[CP Electronics](#) | [Brands](#) | [Legrand United Kingdom](#)