



CP Electronics EBDMR-AD Ceiling Mounted PIR Presence Detectors Installation Guide

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WD996 Issue 4 Installation Guide

EBDMR-AD

1-10V dimming PIR Presence Detector



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EBDMR-AD Ceiling Mounted PIR Presence Detectors

1 –10V analogue dimming, mid range, ceiling PIR presence/absence detector



Warning

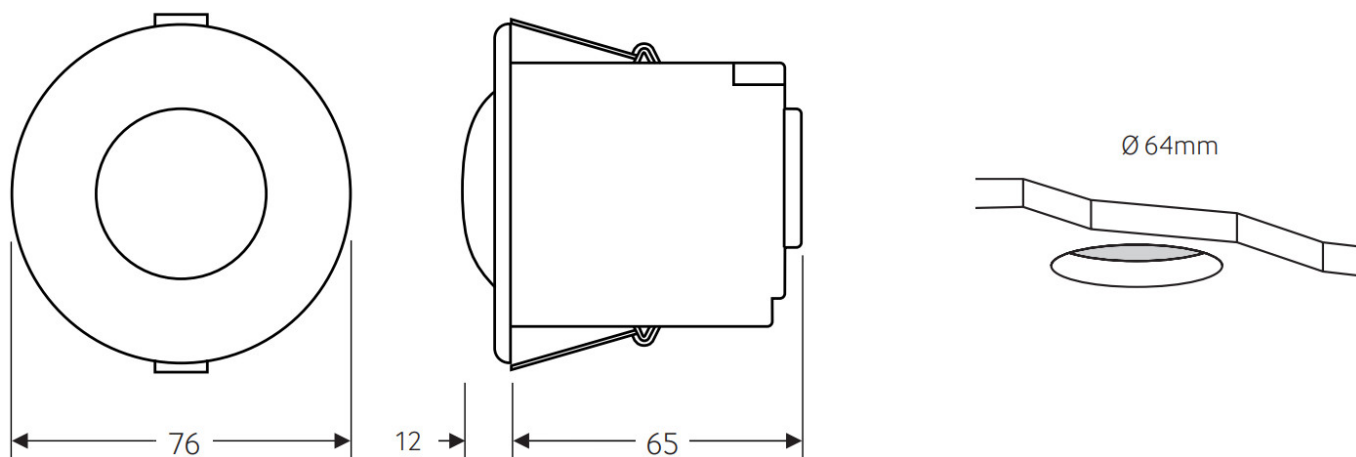
This device should be installed by a qualified electrician in accordance with the latest edition of the IEE wiring regulations.

Downloads and Videos

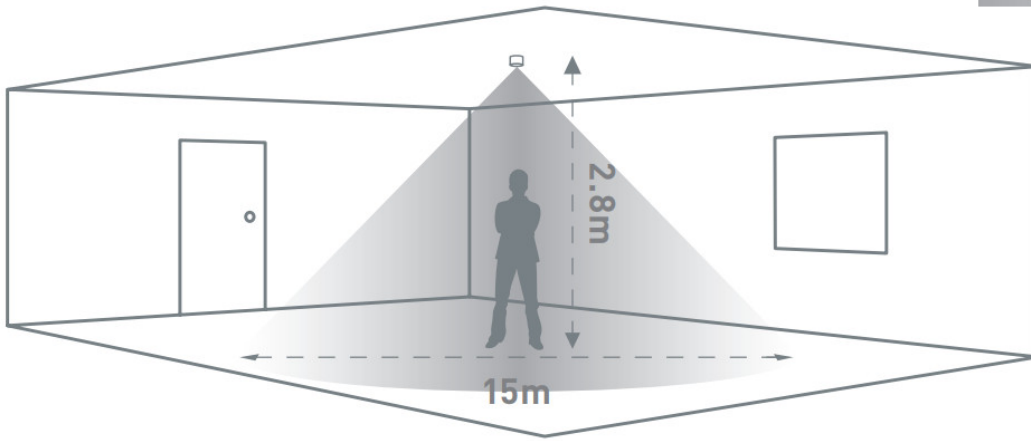


cpelectronics.co.uk/cp/996

Dimensions (mm)



Detection pattern



Wiring

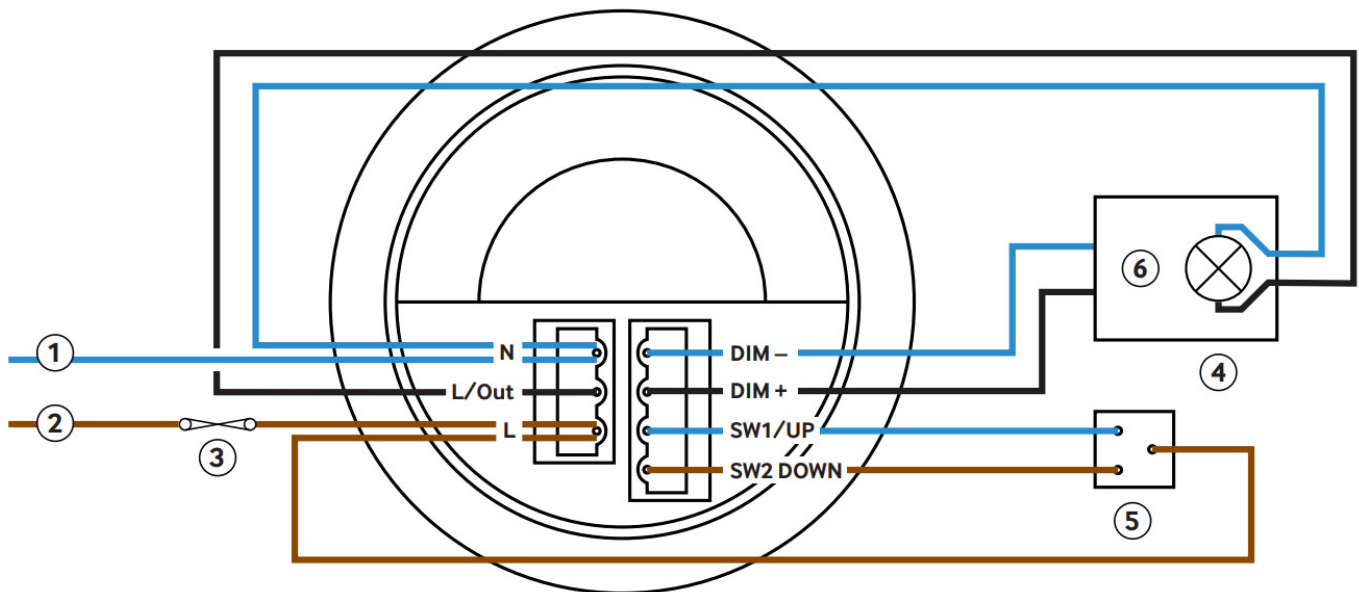


Dimming outputs

Basic insulation only. Although low voltage, this is not an SELV output and should be treated as if mains potential. Use mains rated wiring.

Single channel dimming

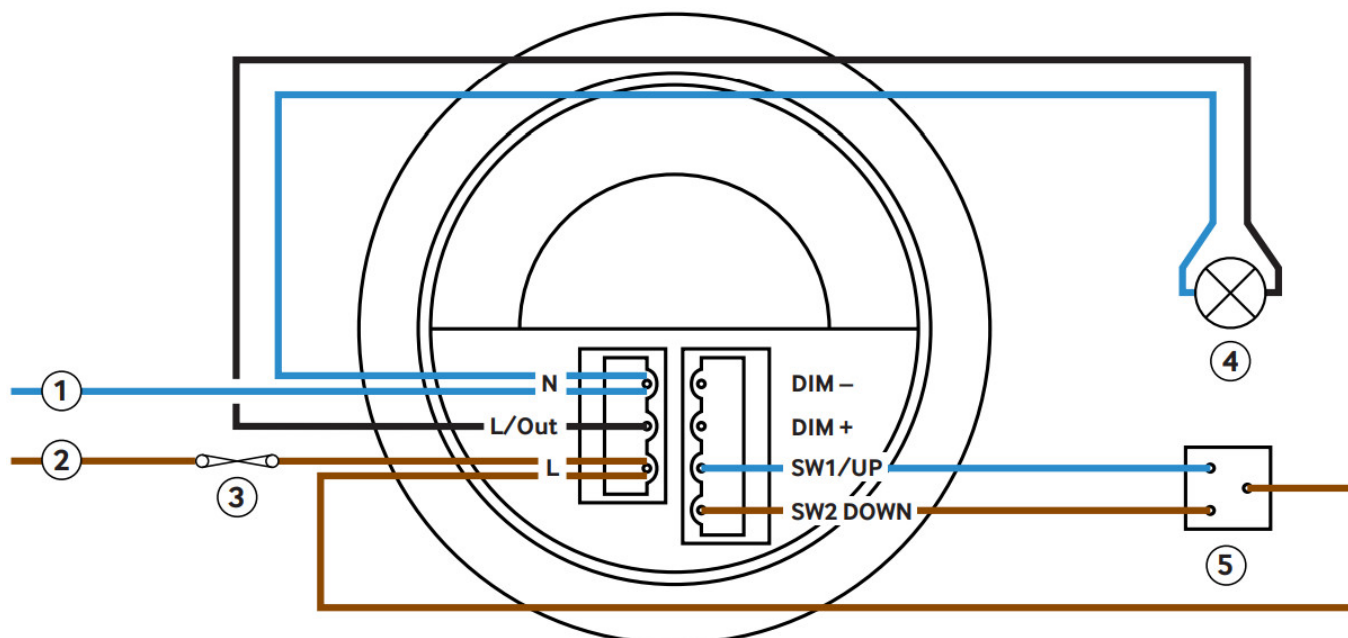
Switches the luminaire with occupancy and maintains illuminance. Dims and switches using optional centre biased retractive switch.



Key

1. Neutral
2. Live
3. 10A circuit protection if required
4. Load
5. Centre biased retractive switch, 230V (for absence detection)
6. Dimming ballast

Switching channel is L-Out,
Dimming channel is DIM +/-
Single channel switching



Key

1. Neutral
2. Live
3. 10A circuit protection if required
4. Load
5. Centre biased retractive switch, 230V (for absence detection)

Switching channel is L-Out,
Dimming channel is DIM +/-

Installation

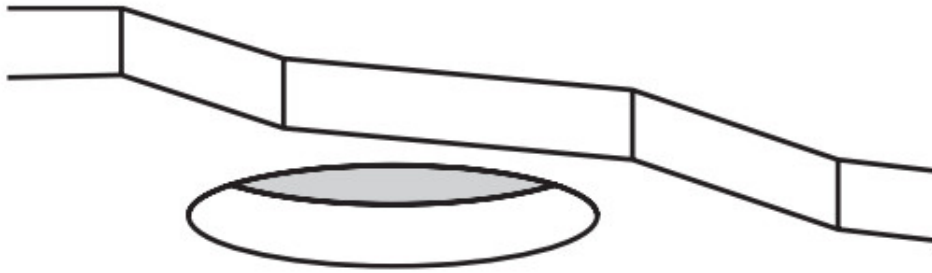
This device is designed to be flush ceiling-mounted.

- 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.

Create cut out

1

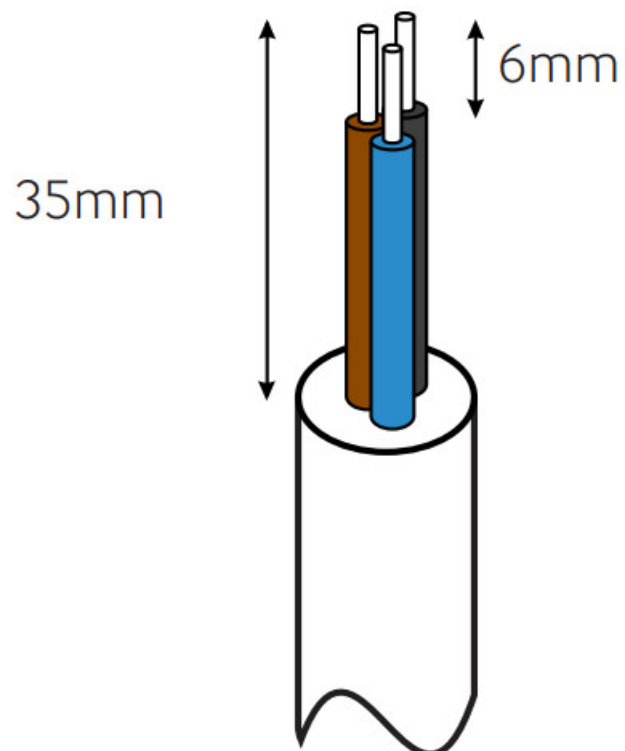
Ø 64mm



Cut a 64mm diameter hole in the ceiling.

Wire stripping

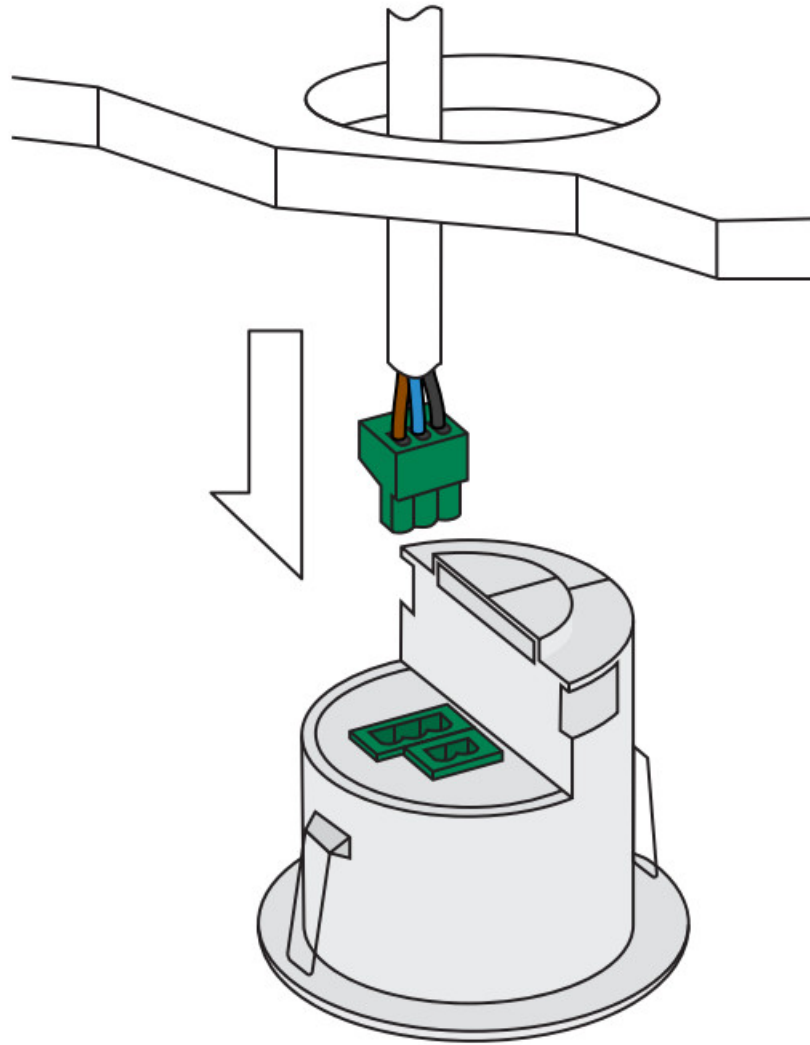
2



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

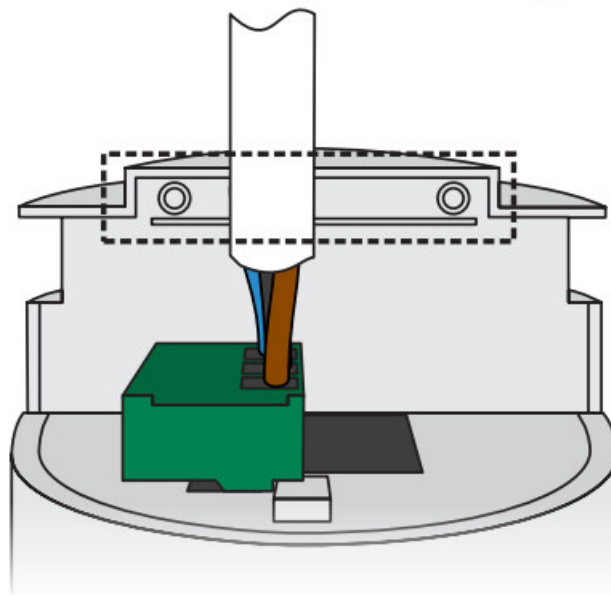
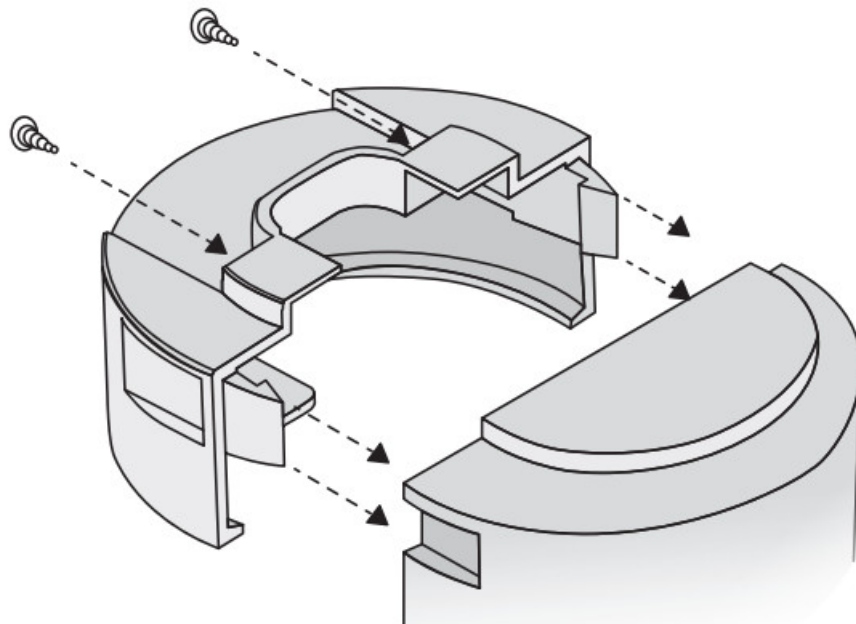
Wire in plugs & connect to detector

3



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

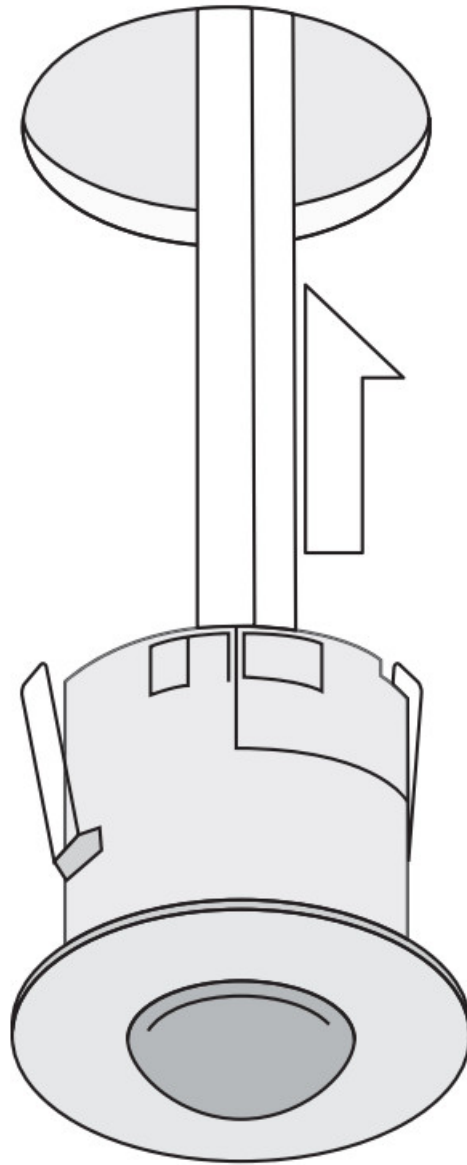
4



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

5



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.

Default Settings

Time out: 20 minutes.

LUX on level: 999

LUX off level: 999

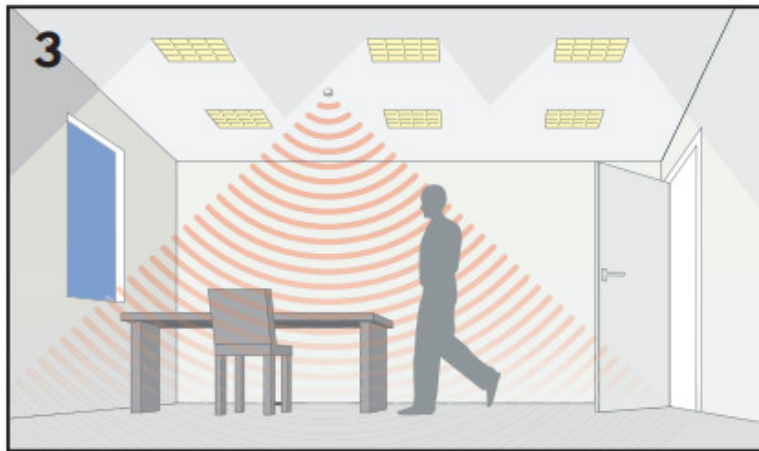
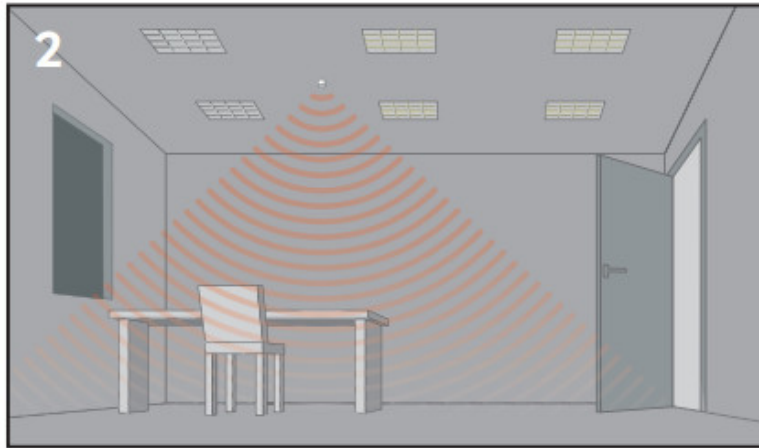
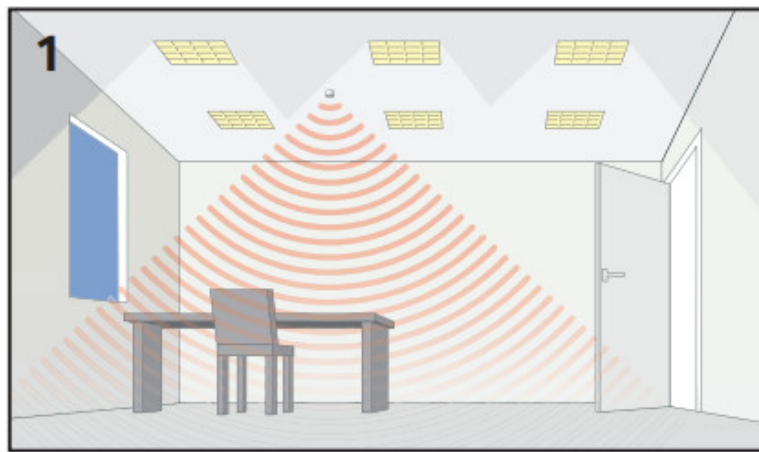
Sensitivity on: 9

Sensitivity off: 9

Detection: Presence

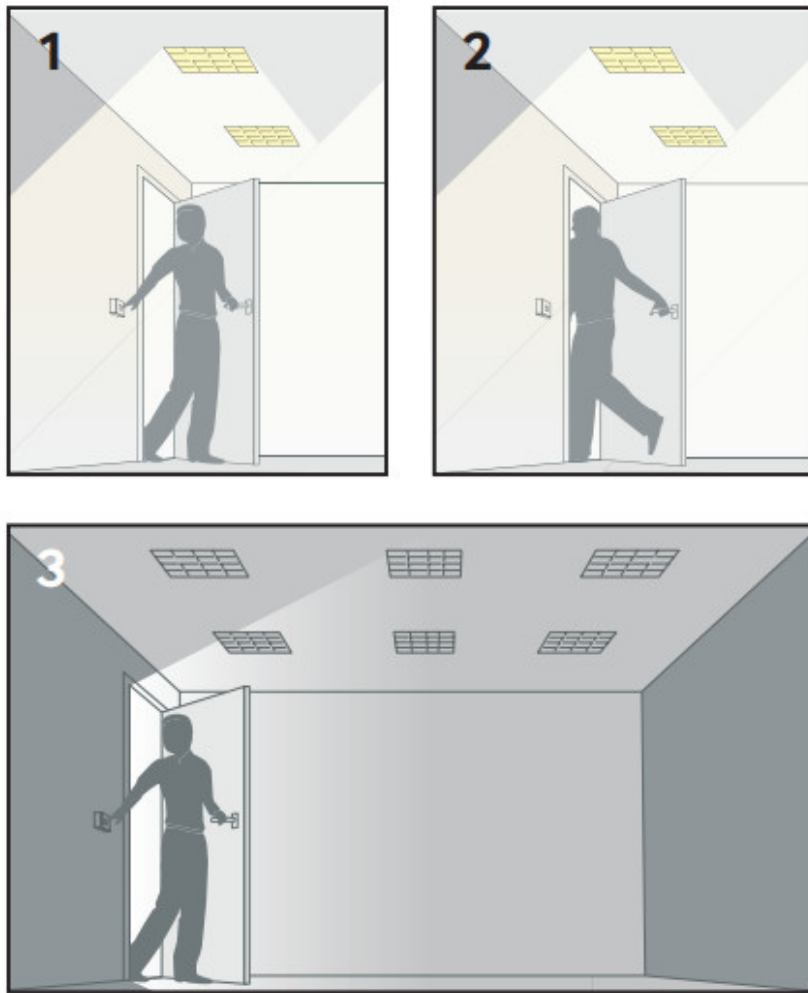
Adjustments can be made using the optional UHS5 or UNLCDHS handsets.

Testing




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-AD
Weight	0.15kg
Supply voltage	230 VAC +/- 10%
Circuit Protection	-:10A.MCB Type B
Supply frequency	50Hz
Power consumption parasitic	724mW
Terminal capacity	2.5mm?
Max Switched load (L-Out)	
Resistive	Incandescent [10A1
Capacitive	Fluorescentn OA] Electronic gear [10A] L ED Lighting [10A)
Inductive	Fan [10A)
Load inrush rating	200A for 300psec
Max Dim load (1-10V)	Up to 10 drivers
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 retardantABS 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

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Due to our policy of continual product improvement CP Electronics reserves the right to alter the specification of this product without prior notice.

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Documents / Resources

	<p>CP Electronics EBDMR-AD Ceiling Mounted PIR Presence Detectors [pdf] Installation Guide</p> <p>EBDMR-AD Ceiling Mounted PIR Presence Detectors, EBDMR-AD, Ceiling Mounted PIR Presence Detectors, Mounted PIR Presence Detectors, PIR Presence Detectors, Presence Detectors, Detectors</p>
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References

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

[Manuals+](#).