



CP electronics EBDSPiR-AD Ceiling Mounted PIR Presence Detectors Installation Guide

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CP electronics EBDSPiR-AD Ceiling Mounted PIR Presence Detectors

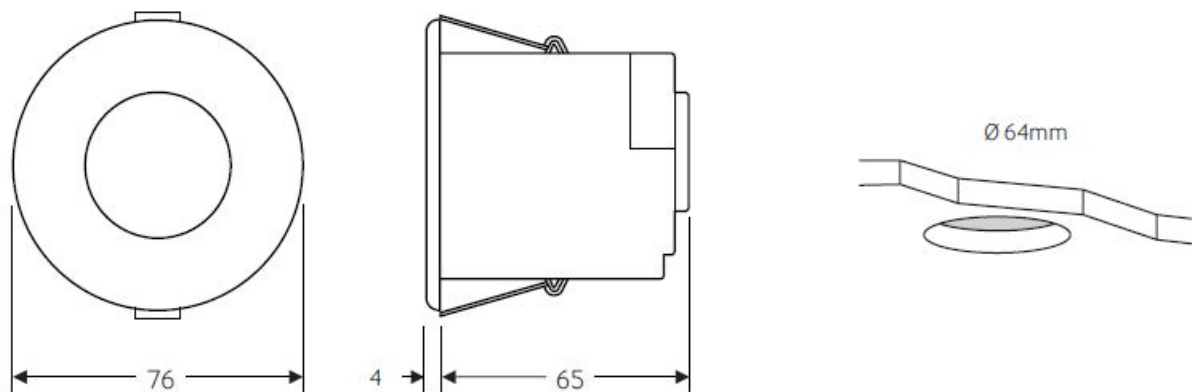


1–10V analogue dimming, ceiling PIR presence/absence detector

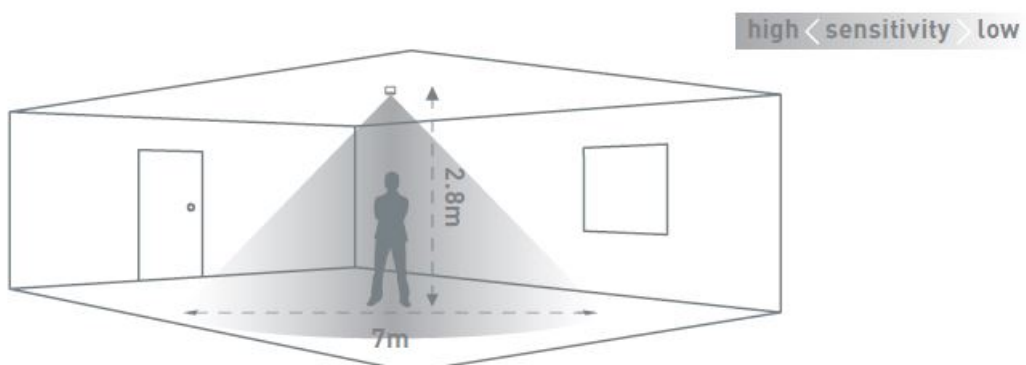
Warning

- This device should be installed by a qualified electrician in accordance with the latest edition of the IEE wiring regulations.
- cpelectronics.co.uk/cp/924

Dimensions (mm)



Detection pattern



Dimming outputs

- ## Single channel dimming

-
- The diagram illustrates the wiring for a 3-way dimmer switch. The central component is a dimmer switch with the following terminals: N (Neutral), L/Out (Load/Output), DIM -, DIM +, SW1/UP, and SW2/DOWN. The wiring is as follows:
- Line (1):** A blue line representing the neutral wire, connected to the N terminal.
 - Line (2):** A brown line representing the line voltage, connected to the L/Out terminal.
 - Switch (3):** A 3-way switch connected to the L/Out terminal. One terminal of the switch is connected to the line (2), and the other two terminals are connected to the SW1/UP and SW2/DOWN terminals of the dimmer switch.
 - Light Fixture (4):** A light fixture connected to the DIM - and DIM + terminals. The DIM - terminal is connected to the line (1), and the DIM + terminal is connected to the line (2).
 - Switch (5):** A 3-way switch connected to the SW1/UP and SW2/DOWN terminals. One terminal of the switch is connected to the SW1/UP terminal, and the other two terminals are connected to the SW2/DOWN terminal.

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 +/-

[illegible]

Key

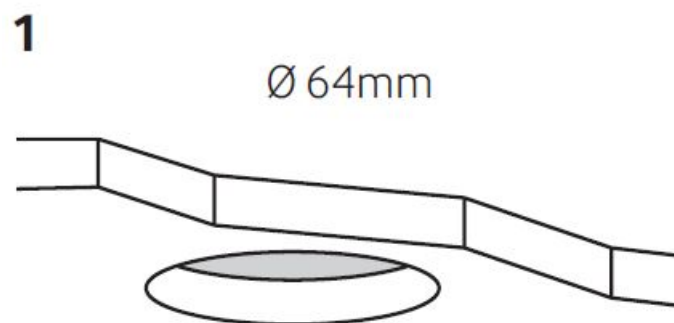
1. Neutral
2. Live
3. 10A circuit protection if required
4. Load
5. Centre biased retractive switch, 230V (for absence detection)
 - Switching channel is L-Out,
 - Dimming channel is DIM +/-

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.

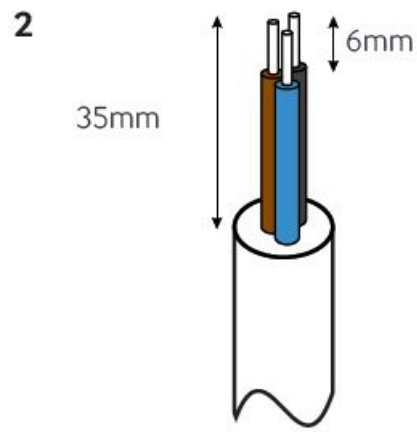
Create cut out



- Cut a 64mm diameter hole in the ceiling.

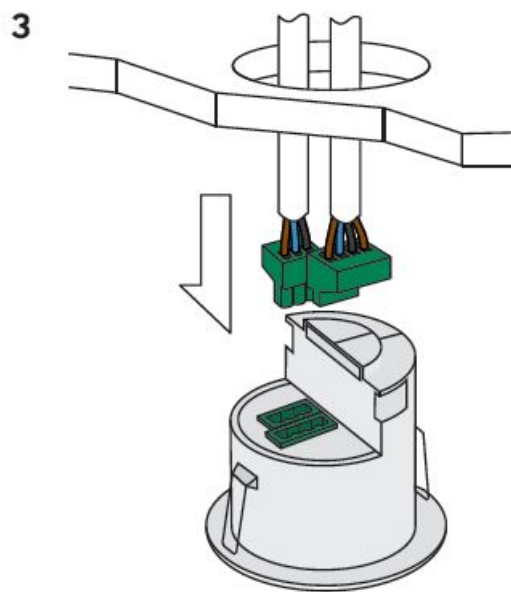
Wire stripping

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



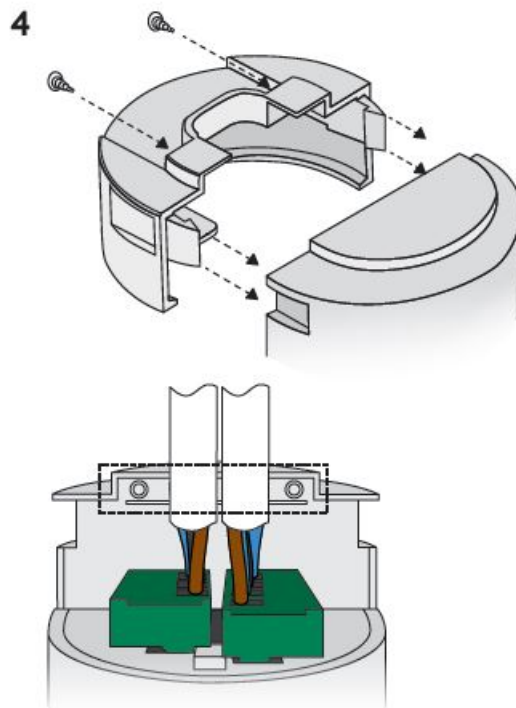
Wire in plugs & connect to detector

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



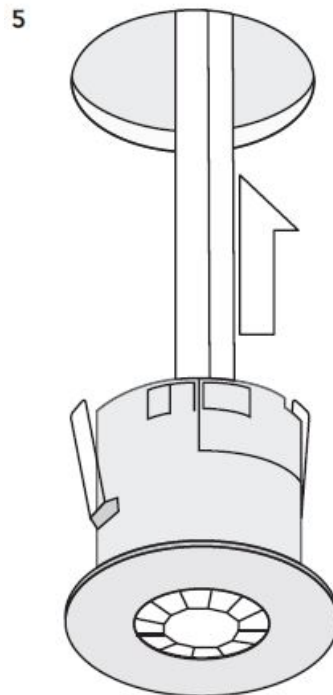
Clamp cable

- 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.



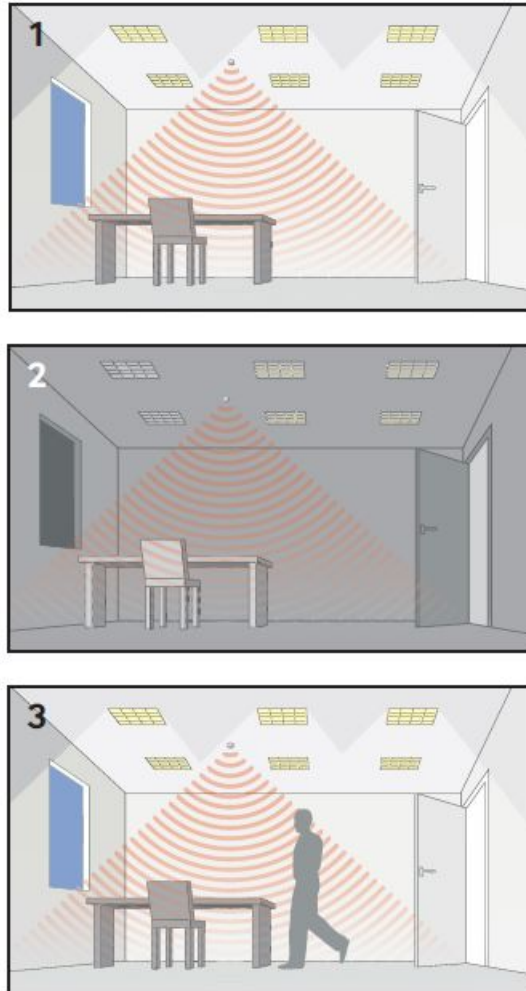
Default Settings

- 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.

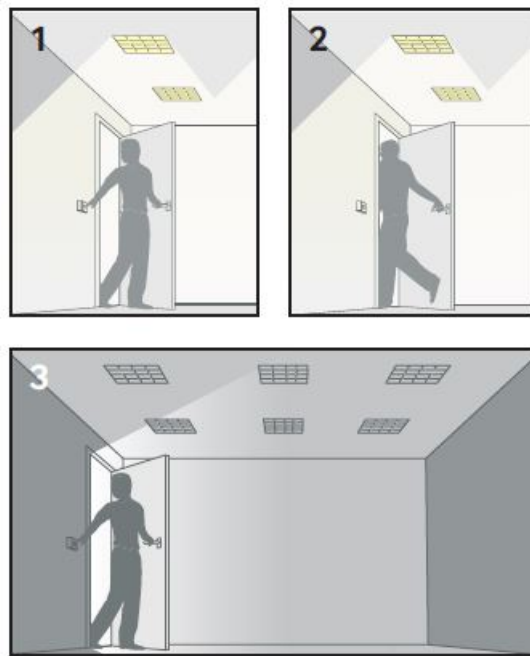
Testing

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	EBDSPIR-AD
Weight	0.15kg
Supply voltage	230 VAC +/- 10%
Circuit Protection	≤10A, MCB Type B
Supply frequency	50Hz
Power consumption parasitic	807mW
Terminal capacity	2.5mm ²
Max Switched load (L-Out)	
Resistive	Incandescent [10A]
Capacitive	Fluorescent [10A] Electronic gear [10A] LED Lighting [10A]
Inductive	Fan [10A]
Load inrush rating	200A for 300μsec
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 retardant ABS and PC/ABS
Insulation class	2
IP rating	40
Compliance	 EMC-2014/30/EU, LVD-2014/35/EU

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Accessories & associated products

Part Number Description

- Surface mounting box
- Surface mount back box extender
- Pre-drilled 64mm hole IP65 detector enclosure



DBB



DBB-EXT



EBD-ENCIP1

- Extended wiring housing
- Masking shields for EBDSPiR range
- Compact, programming/commissioning handset



EXD-HSC

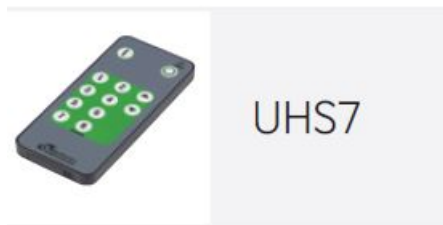


EBDSPiR-MS



UHS5

- Compact, user handset
- Universal LCD IR handset/commissioning handset



UHS7




UNLCDHS

CP Electronics Brent Crescent, London NW10 7XR t. +44 (0)333 900 0671 enquiry@cpelectronics.co.uk

- www.cpelectronics.co.uk
- connect with us

Due to our policy of continual product improvement CP Electronics reserves the right to alter the specification of this product without prior notice. WD924 Issue 5 Installation Guide, EBDSPIR-AD

Documents / Resources

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

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