



CP electronics EBDSPiR Ceiling Mounted PIR Presence Detectors Installation Guide

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CP Electronics EBDSPiR Ceiling Mounted PIR Presence Detectors



INSTALLATION INSTRUCTION

Basic switching, compact, IP40, ceiling, flush mounted, PIR, presence detector.

Warning

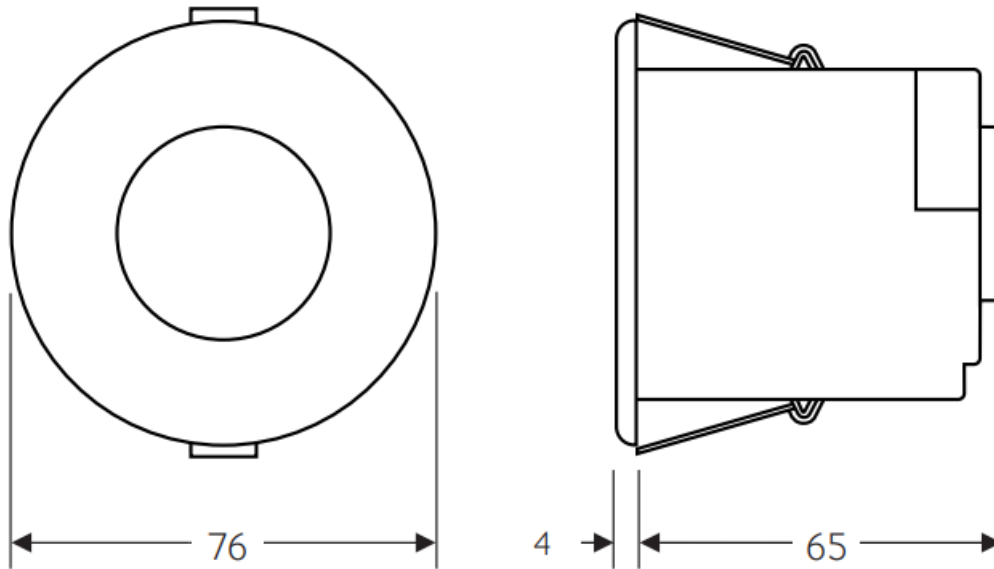
This device should be installed by a qualified electrician in accordance with the latest edition of the IEE wiring regulations

Downloads and Videos

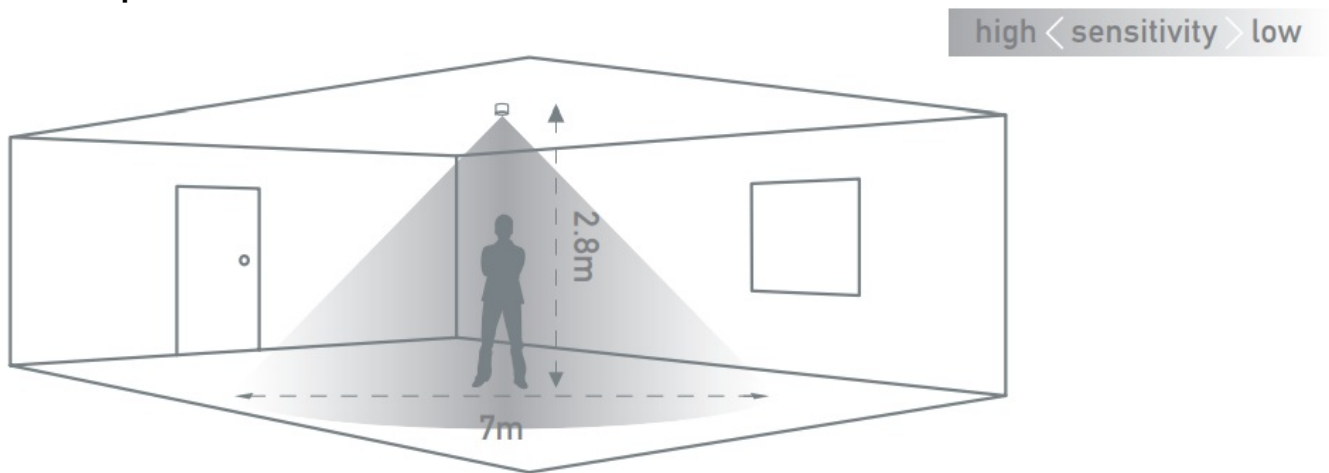


cpelectronics.co.uk/cp/101

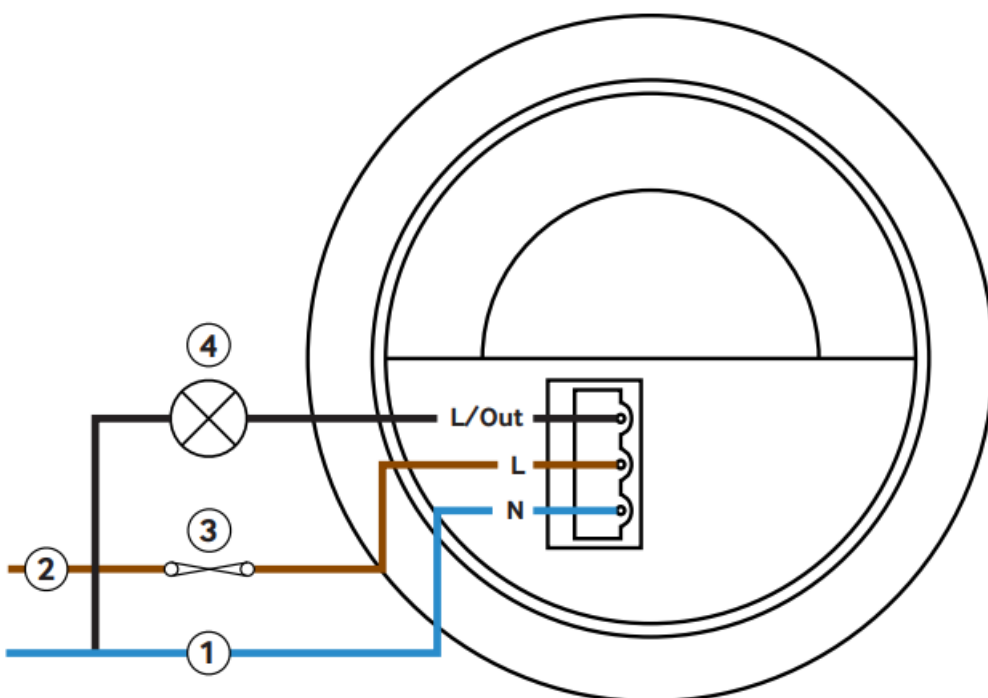
Dimensions (mm)



Detection pattern



Wiring



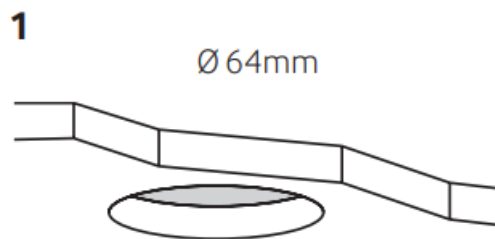
Key

1. Neutral
2. Live
3. 10A circuit protection if required
4. Load

Installation

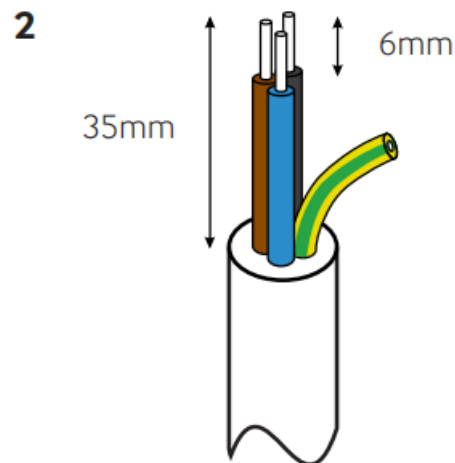
- This device is designed to be flush ceiling-mounted. See page 12 for additional mounting options.
- Do not site the unit where direct sunlight might enter the sensor.
- Do not site the sensor within 1m of any lighting, forced air heating, or ventilation.
- Do not fix the sensor to an unstable or vibrating surface.

Create cut out



Cut a 64mm diameter hole in the ceiling.

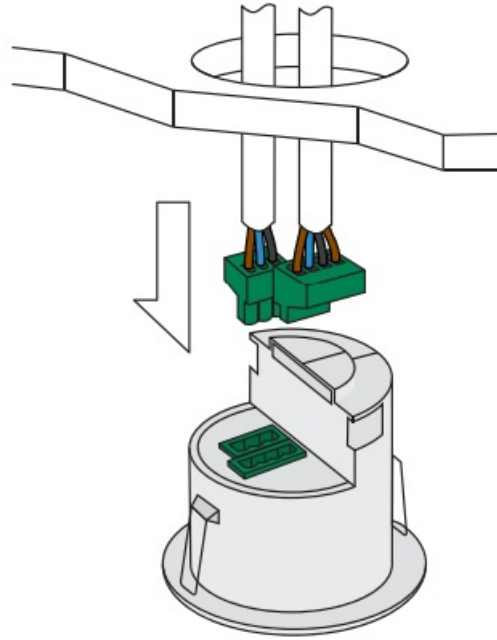
Wire stripping



- Strip the wires as shown opposite.
- The presence detector does not require an earth conductor

Wire in plugs & connect to the detector

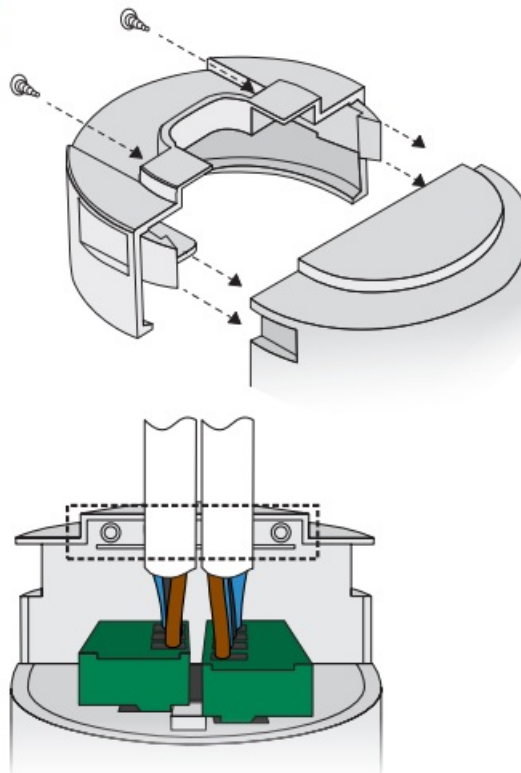
3



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

Clamp cable

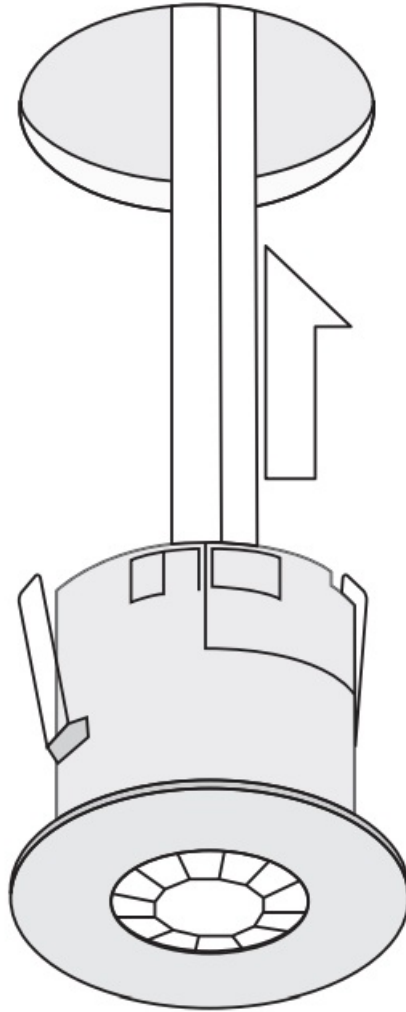
4



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

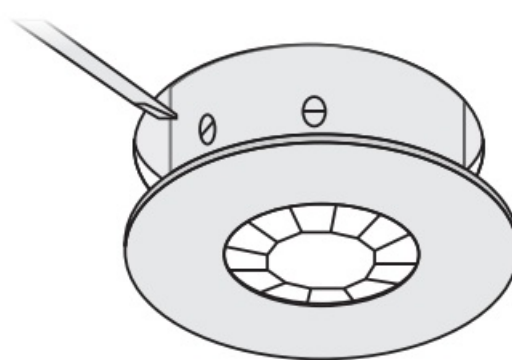
5



- Bend the springs up and push the detector through a hole in the ceiling.
- When fully inserted the springs snap back to hold the device in place.
- To avoid injury, take care when bending springs.

Adjust settings using pots

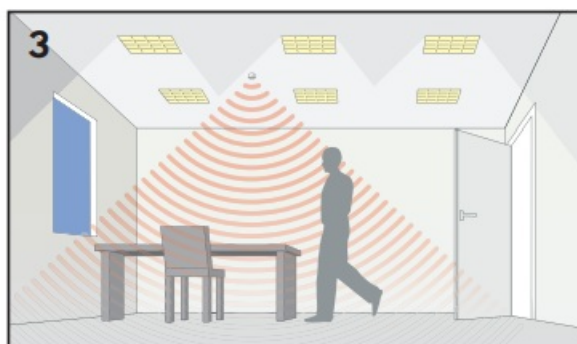
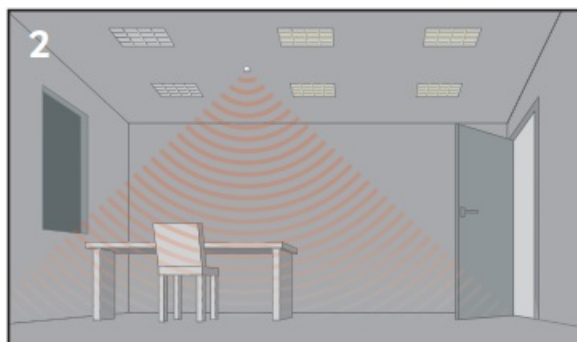
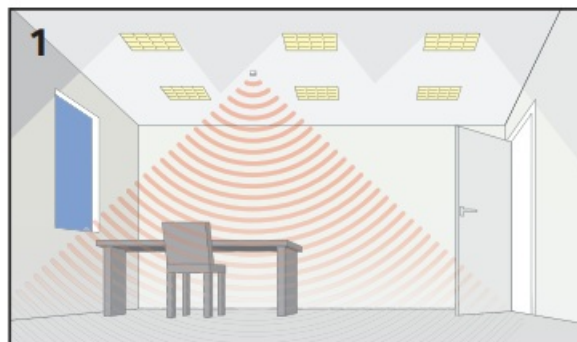
6



Set up Lux & time out settings using pot adjustments, before fully installing into the ceiling cut out.

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.

Technical Data

Part code	EBDSPIR
Weight	0.150kg
Supply voltage AC	230 VAC +/- 10%
Supply frequency	50Hz
Power consumption parasitic	260mW
Terminal capacity	2.5mm ²
Max load:	
Incandescent lighting	8A
Fluorescent lighting	6A
Compact fluorescent lighting	3A
LED lighting	3A
Resistive heaters	8A

Fans and ventilation equipment	3A
Time out range	10s–30m
Purpose	Sensing control
Construction	Independent flush mounted, electronic control.
Type of action	Type 1.B action (micro disconnection)
Pollution	Degree 2
Software	Class A
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

Part Number





- **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
- **EBDSPIR-MS:** Masking shields for EBDSPiR range
- **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.

Documents / Resources

	<p>CP electronics EBDSPiR Ceiling Mounted PIR Presence Detectors [pdf] Installation Guide WD101, EBDSPiR Ceiling Mounted PIR Presence Detectors, EBDSPiR, Ceiling Mounted PIR Presence Detectors, PIR Presence Detectors, Presence Detectors, Detectors</p>
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References

-  [Presence Detectors and Energy Efficient Lighting Control Systems | CP Electronics](#)
-  [Presence Detectors and Energy Efficient Lighting Control Systems | CP Electronics](#)

Manuals+.