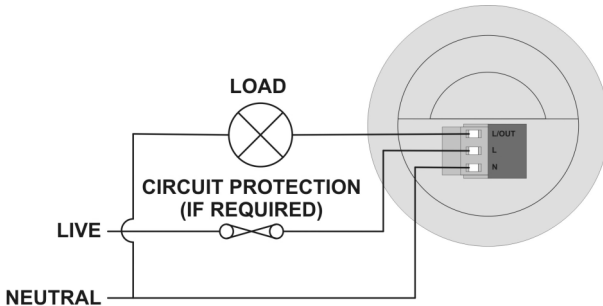
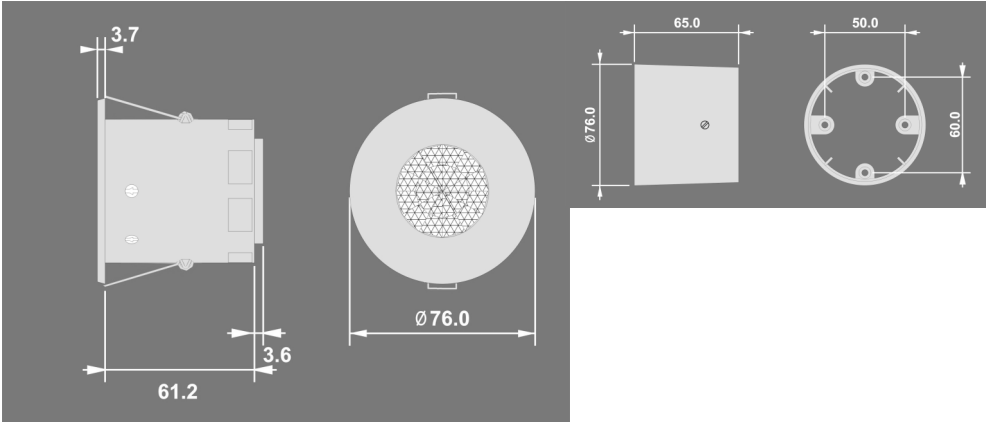


## EBDSPIR Ceiling Presence Detector



### Overview

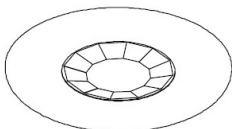
The EBDSPiR series of presence detector switches are designed to provide automatic control of lighting, heating or ventilation loads. They detect movement using a PIR sensor and turn the load on. When an area is no longer occupied the load will switch off after an adjustable time out period.

An adjustable internal light sensor provides additional energy saving in lighting applications. When an area is occupied lighting is only switched on when the level of natural light is below a preset level.

When the unit is first powered up the PIR sensor will always detect immediately regardless of whether the room is occupied.

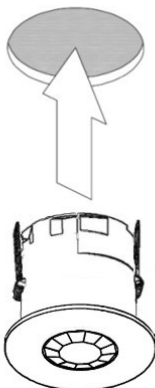
## FLUSH FIXING

**Warning - be careful bending springs when mounting unit.**

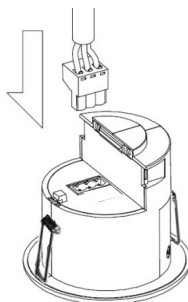


**1**

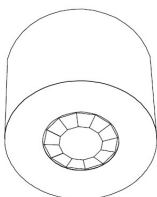
Hole Ø64mm



**2**

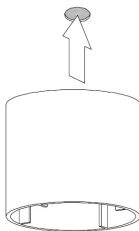


## SURFACE FIXING

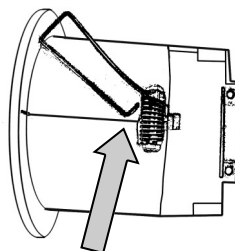


**1**

50mm or 60mm fixing centres



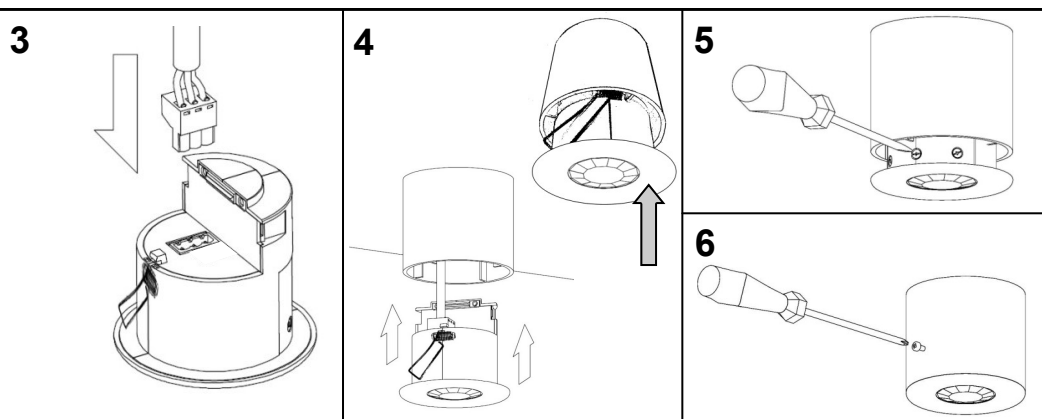
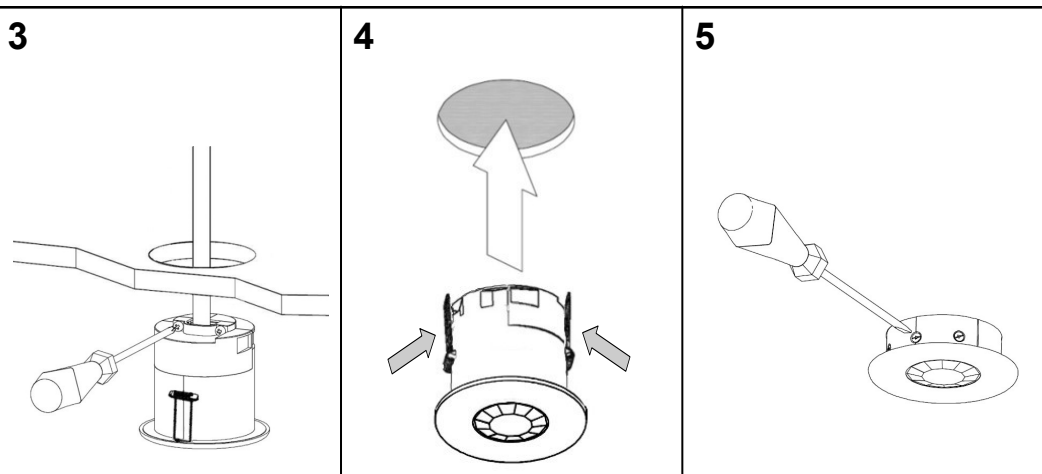
**2**



Pull out spring tab and rotate spring arm as shown

## Installation

- The detector should be sited so that the occupants of the room fall inside the detection pattern shown overleaf, at a recommended height of 2.8m on the ceiling. Note that the lower the sensor is installed the smaller the detection range will be, subject to the parameters shown on the diagram.
- Avoid direct sunlight entering the sensor.
- Do not site within 1m of forced air heating or ventilation.
- Do not site within 1m of any lighting.
- Do not fix to a vibrating surface.
- Wire the product using the connector using the diagram on the front page.
- Mount using one of the two options above.
- To switch from more than one position simply wire two or more units in parallel.
- Set the LUX level to maximum
- Power the unit up—the load should
- Vacate the room or remain very (should take no more than 2 min)
- Check that the load switches on
- To set the final LUX level wait enough that lighting is required. wise (at minimum), very slowly t lights come on. Note that when lights will **always** come on with
- Set the time required.



## Fault Finding

### LOAD DOES NOT COME ON

Check to see if the live supply to the circuit is good. Strap across the *L* and *LIVE OUT* terminal to turn the load on.

If the supply and wiring are good, check the LUX level setting. Increase the LUX level setting to allow the controller to turn on at higher ambient natural light level.

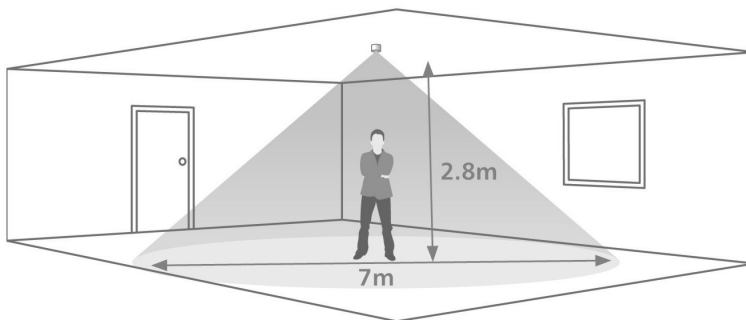
If the detection range is smaller than expected, check the diagram above. Rotating the sensor slightly may improve the range.

### LIGHTS DO NOT GO OFF

Ensure that the area is left unoccupied for longer than the selected timer setting.

Make sure that the sensor is not adjacent to circulating air, heaters or lamps.

# Detection Pattern



Area of high sensitivity      Area of lower sensitivity

## Specification

### LOAD

8 Amp resistive and incandescent lighting  
 6 Amp fluorescent lighting  
 3 Amp compact fluorescent lighting  
 3 Amp low energy lighting  
 3 Amp low voltage lighting (switch primary of transformer)  
 Fluorescent lighting (max 6 fittings recommended)  
 For fluorescent lighting total power factor correction capacitance must not exceed 40 $\mu$ F.  
 3 Amp fans and ventilation equipment  
 Switch SON lighting loads via a contactor

**SUPPLY VOLTAGE** 220-240 Volts AC 50 Hz

**TIME OUT PERIOD** Adjustable 10s to 30m


**LIGHT LEVEL** Light to dark

**TERMINAL CAPACITY** 2.5 mm<sup>2</sup>

**MATERIAL** Flame retardant ABS

**TYPE** Class 2

**TEMPERATURE** -10°C to 35°C

**CONFORMITY** EMC-89/336/EEC LVD-73/23/EEC 

### IMPORTANT NOTICE!

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

## Part Numbers

EBDSPIR Ceiling mounted presence detector  
 DBB Surface mounting back box



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EMS 534520



energy services and technology association

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

Ref #WD101 Issue 7