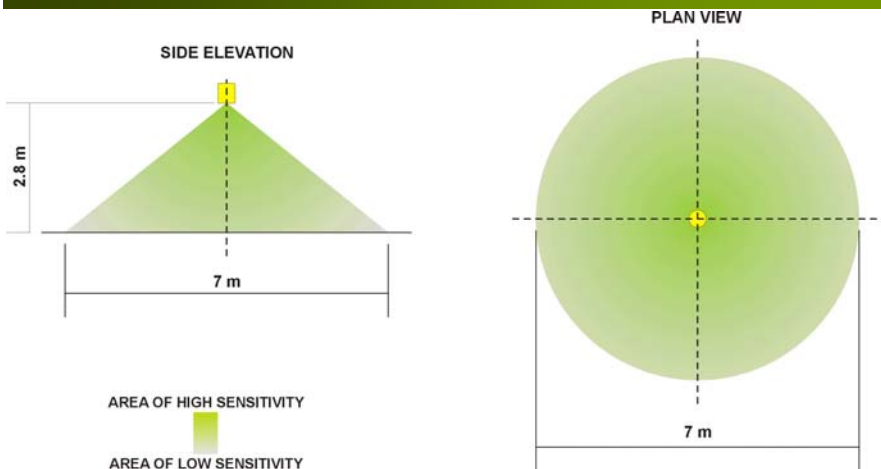


DETECTION PATTERN



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 40µF.
 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

LEAD 1.0 mm² LSF
MATERIAL Flame retardant ABS, fixing clip polypropylene
 Class 2

TYPE Class 2
TEMPERATURE -10°C to 35°C
CONFORMITY EMC-89/336/EEC LVD-73/23/EEC



PART NUMBERS

VITB-PD Ceiling mounted Vitesse presence detector c/w 3m lead
 VITB-PD/IR Ceiling mounted Vitesse presence detector with IR sensor c/w 3m lead
 DBB Surface mounting back box
 UHS User handset



C.P. Electronics Ltd
 Unit 2 Abbey Manufacturing Estate
 Mount Pleasant, Wembley
 Middlesex. HA0 1RR

IMPORTANT NOTICE!

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

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

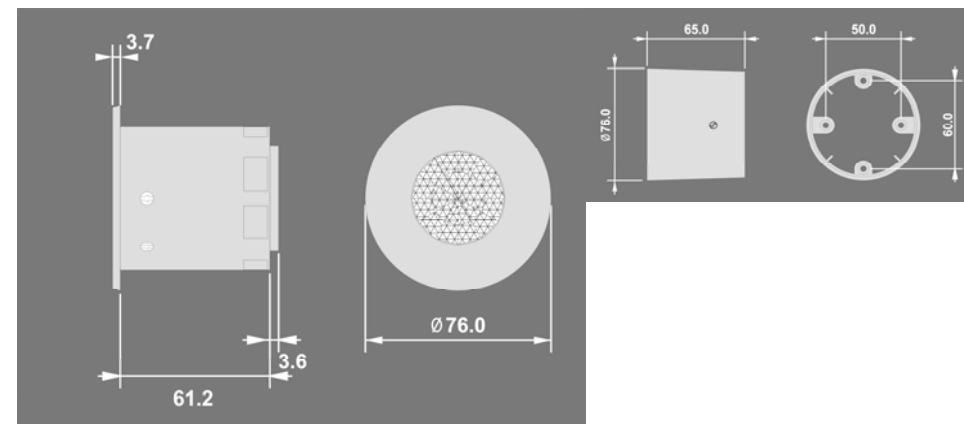
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Ref %WD150 Issue 2

VITESSE
 Effective Lighting Distribution

CP electronics
 intelligent energy control

VITB-PD(/IR) CEILING PRESENCE DETECTOR



DESCRIPTION AND OPERATION

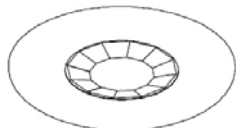
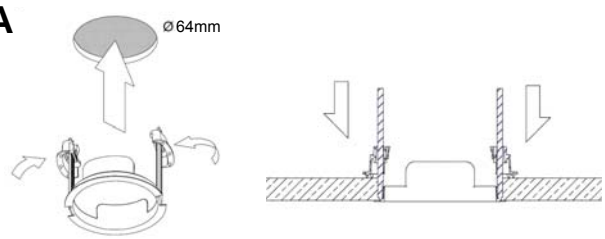
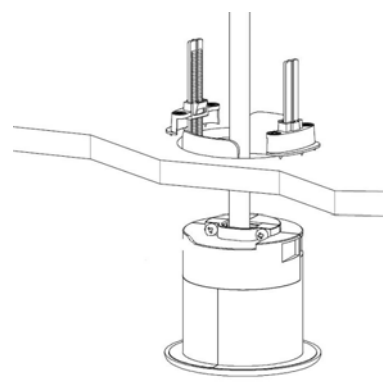
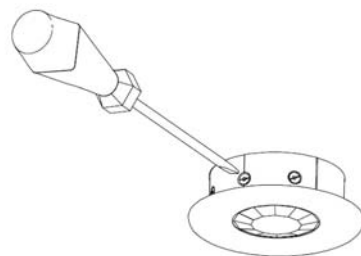
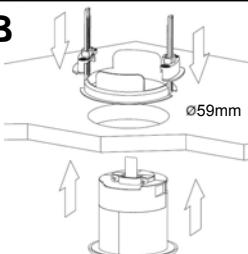
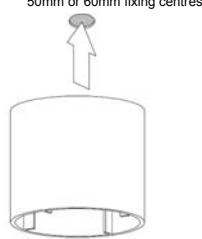
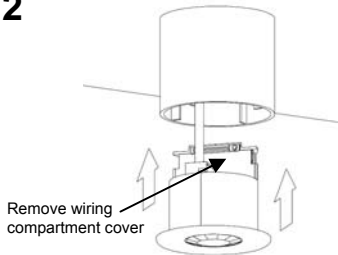
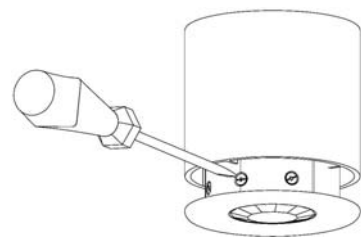
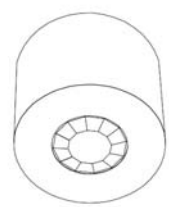
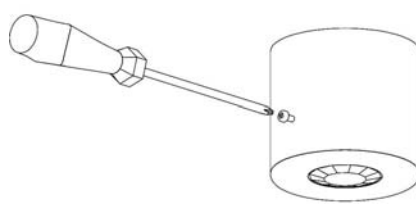
Vitesse presence detector switches are designed to provide automatic control of lighting, heating or ventilation loads. They detect movement using a PIR sensor and turn the load on. When an area is no longer occupied the load will switch off after an adjustable time out period.

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.

An optional IR sensor in the unit allows the lux settings to be changed and the sensor to be overridden using a remote control handset (part no: UHS).

These units come complete with a pre-wired lead to plug straight into the Vitesse VITB-B marshalling box.

FLUSH FIXING 	1A 	2 	3 
1B 	1 	2 	3 
SURFACE FIXING 	4 		

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 three options above.
- Plug the detector into the INPUT1 or INPUT2 terminals of the VITB-B marshalling box (see *VITB-B datasheet* for further details).
- Set the LUX level to maximum and the time to minimum.
- Apply power to the marshalling box—the load should come on immediately.
- Vacate the room or remain very still and wait for the load to switch off (should take no more than 2 minutes).
- Check that the load switches on when movement is detected.
- To set the final LUX level wait until the level of natural daylight is just enough that lighting is required. Starting with the LUX control fully clockwise (at minimum), very slowly turn the control anti-clockwise until the lights come on. Note that when the LUX control is at maximum then the lights will **always** come on with occupancy. *IR version only: LUX setting can be done using the lux up and lux down buttons.*
- Set the time required.
- *IR version only:* the *override on* button turns the unit on permanently; the *override off* button turns the unit off permanently; the *cancel* button cancels the overrides. When an override is selected an LED will flash inside the unit.

FAULT FINDING

LOAD DOES NOT COME ON

Check the supply to the marshalling box.

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 overleaf. 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.