

PRE320I Ceiling Mounted PIR



- Avoid direct sunlight entering the sensor.
- Do not site within 1 m of forced air heating or ventilation.
- Do not site within 1 m of any lighting.
- Do not fix to a vibrating surface.
- To flush mount: Cut a 64mm hole in the ceiling.
- Detach the mains cover, connect connect cables and replace the cover.
- Insert the mounting clip into the hole and carefully push the two fixings on the arms downwards until they grip firmly to the ceiling.
- Loosely push the unit into the clip and setup as instructed below.
- Push the unit fully into the mounting clip.

To surface mount:

- Screw the optional surface mounting straight to the ceiling or to a BESA box.
- Detach the mains cover, connect connect cables and replace the cover.
- Loosely push the unit into the clip and setup as instructed below.
- Do not re-fit the mains cover, push the unit into the back box and secure with the screw.

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Description and Operation:

The PRE3200 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.

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 overleaf.

Installation:

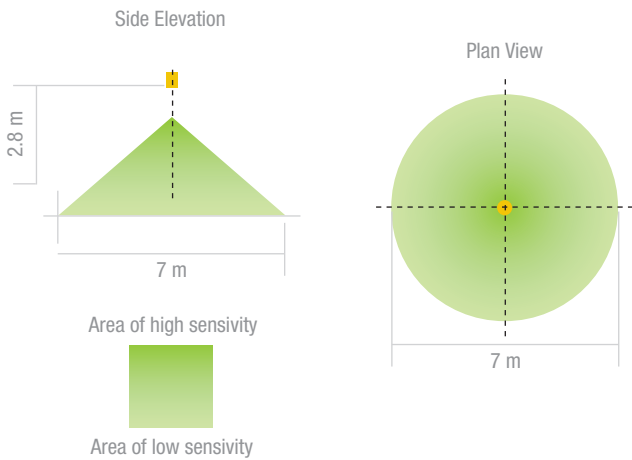
Warning. This device works at mains potential. Be sure to take care when working with electricity.

1. Make sure the load is connected and in working order.
2. Isolate the mains supply to the circuit at the main consumer unit.
3. Connect the controller via the terminal block. Live supply to the L terminal, Neutral to the N terminal and the load to the LIVE OUT terminal.
4. Set the LUX level to maximum and the time to minimum.
5. Push on the mains cover (flush only) and loosely mount the unit.
6. Switch the mains supply back on at the distribution board.
7. The load should come on immediately.
8. Vacate the room or remain very still and wait for the load to switch off (should take no more than 2 minutes).
9. Check that the load switches on when movement is detected.
10. 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.*
11. Set the time required.
12. Push the unit fully into the mounting clip or back box.

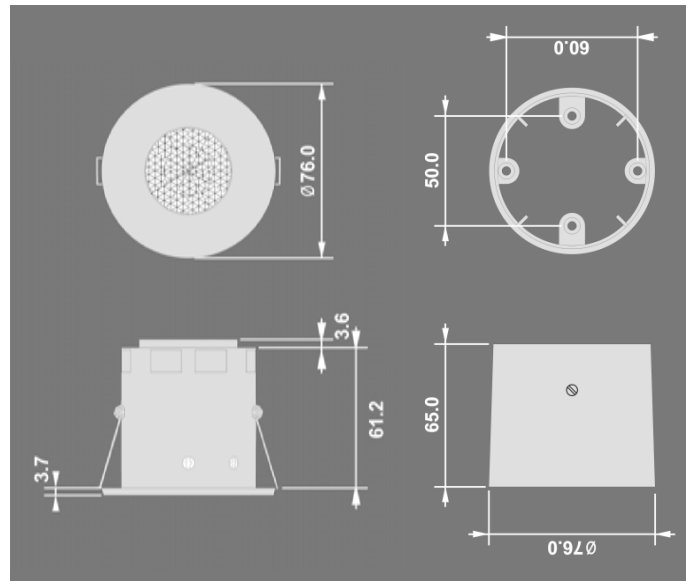


Installation Instructions Continued...

PRE320I Detection Pattern



PRE320I Mounting Options



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.

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 F. 3

Switch SON lighting loads via a contactor

SUPPLY VOLTAGE

220-240 Volts AC 50 Hz

TIME OUT PERIOD

Adjustable 10 seconds to 30 minutes

LIGHT LEVEL

Light to dark

FIXING METHOD

Flush fixing in 64mm hole using clip provided. Surface fixing using optional surface box part no DBB

TERMINAL CAPACITY

2.5 mm²

MATERIAL

Polypropylene Flame retardant

TYPE

Class 2

TEMPERATURE

-10°C to 35°C

CONFORMITY

EMC-89/336/E EC 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.

