

COMMISSIONING

All flex7 microwave sensors are designed to work 'out of the box' and as such are manufactured with the following common default settings:

- Time-out - 20 minutes (luminaires switch OFF 20 minutes after last detection)
- Sensitivity level – 2 (sensitivity may be increased by 1 increment or reduced by 5 increments to reduce nuisance triggering)
- Target light level - maximum (luminaires will **not** turn OFF as a result of ambient light conditions)
- No switch connected - occupancy control (luminaires turn ON automatically when movement is detected and OFF automatically after last movement is detected)
- Switch connected - Absence control (luminaires turn ON after switch is pulsed and OFF automatically after last movements is detected)

A flex7 remote handset (FRC/SET) is required to change these default settings.

Refer to FRC/SET instructions for details on how to:

- Change time-out setting
- Change sensitivity level
- Set target light level to achieve daylight dependency

Notes: If the sensor is used in absence mode and subsequently required to operate in occupancy i.e. the momentary switch is removed from circuit, it is necessary to isolate the sensor

Microwave sensors can detect moving objects through partition walls, window etc. resulting in nuisance or unexpected triggering.

Expected detection range can be affected by the velocity of the target object and the type of back box used i.e. metal (good) or plastic (slightly reduced).

TECHNICAL

- Rating 230v 50hz 6A
Inrush - 120A, 20ms (max)
- IP Rating: IP2X
- Compliance: LVD 2014/35/EU, EMC 2014/30/EU



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FLEX7 230V MICROWAVE INSTRUCTIONS

These instructions cover the following models:

- FMH400/230 - Ceiling Mounted 230v Microwave Sensor
- FMH400/W/230 - Wall Mounted 230v Microwave Sensor

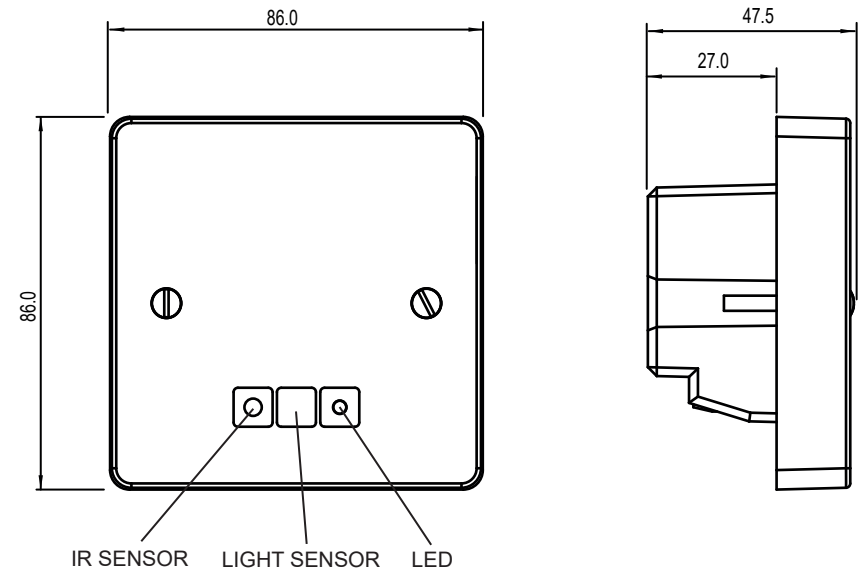


FIGURE 01

flex7 microwave sensors are designed to switch luminaires ON when movement is detected and OFF when the area is vacated.

All variants have an integral infrared sensor, a light sensor and LED (see figure 01).

The infrared sensor allows the device to be programmed via a flex7 remote control if 'out of the box' settings are inappropriate - FRC/SET (not supplied).

During periods of occupancy the light sensor offers a secondary mode of control, making it possible to turn luminaires ON/OFF in relation to the available ambient light within the detection zone (daylight dependency).

The LED will flash if movement is detected or a signal is received from a flex7 remote control.

Please read these instructions carefully before installing the microwave sensor and leave them with the end user for future reference.

THE FLEX7 MICROWAVE SENSOR MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH LOCAL WIRING REGULATIONS.

LOCATION AND FIXING

The FMH400/230 (ceiling) should be mounted horizontally and positioned as centrally as possible within the space being monitored. The FMH400/W/230 (wall) should be mounted vertically and positioned at one end of the space being monitored (see figure 02 for respective detection patterns).

To minimise false triggering microwave sensors should not be installed near plant or machinery with moving parts (e.g ventilation fans) or fixed to vibrating surfaces.

The microwave sensor's primary function is to turn luminaires ON/OFF as a result of movement within the area of detection. If, in addition, daylight dependency is required, the sensor should be positioned in an area where natural light contribution is relatively significant.

The microwave sensor must be securely fixed to a suitable surface (wall or ceiling in conjunction with a 35mm deep (min) single gang black box. Two 3.5mm screws are supplied for fixing to the black box.

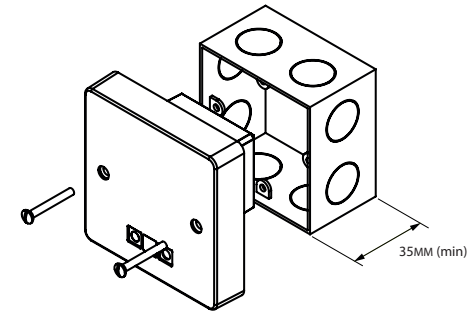


FIGURE 03

ELECTRICAL

ISOLATE SUPPLY BEFORE MAKING ANY CONNECTIONS TO THE FLEX7 MICROWAVE SENSOR.

Terminals accept 1 x 2.50mm² conductor. Refer to figure 04 for termination details.

One or more 'Push-to-Make' momentary switches can be connected as shown if absence control is required. Switches operate at 230v.

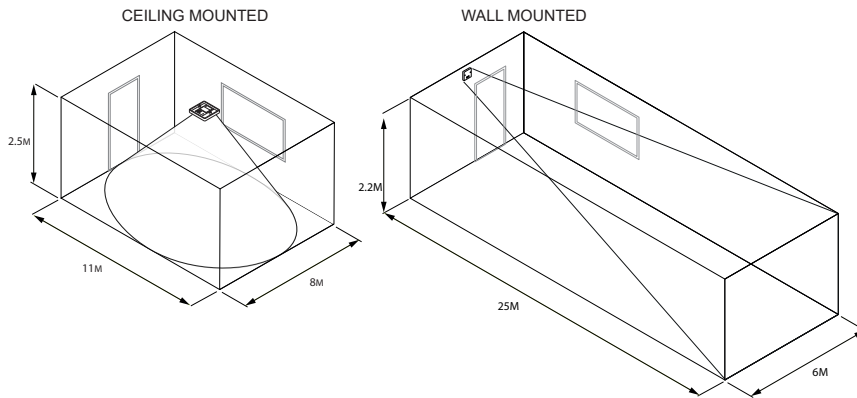


FIGURE 02

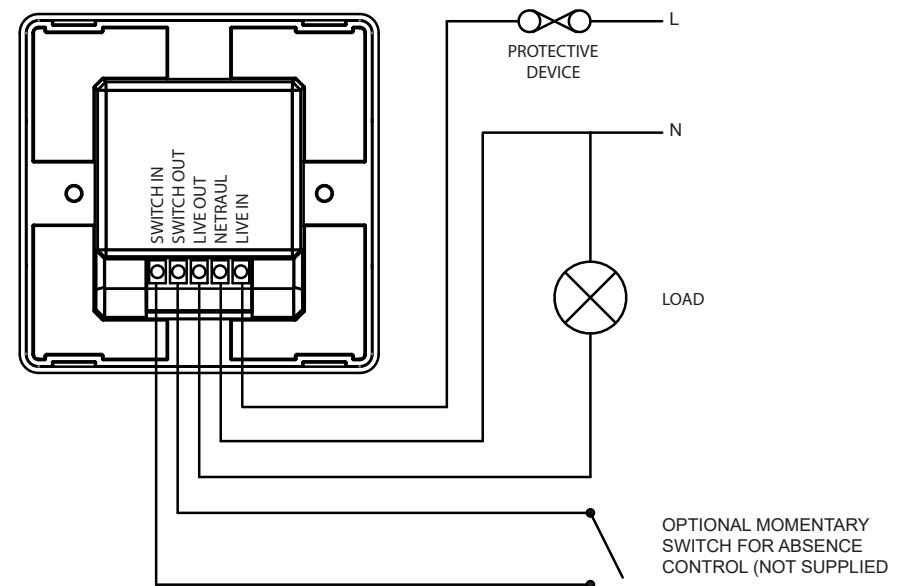


FIGURE 04