ES-PIR2 Sensor Installation Guide

The EMC Directive 2004/108/EC
The Low Voltage directive 2006/95/EC

IMPORTANT! Please refer to the installation instructions of the fan to check the compatibility of this sensor.

Parts check list:

- **ES-PIR2 Passive Infra red detector**
- **1 off 10 metre length of plugged SELV cable**

ES-PIR2 Occupancy Sensor

Designed to be compatible with the Ecosmart system, this PIR unit is supplied with a pre-plugged, 10 metre length of communications cable. Note: longer lengths are available if required.
The sensor operates with Safe Extra Low Voltage (SELV) with power supplied from the fan unit via the communications cable. The ES-PIR sensor will activate the system when movement is detected. An adjustable 1-60 minute timer is incorporated to provide a run on facility.

Installed Environment

0 - 40°C up to 90%RH non-condensing.

Fault indication

The LED will change from green to red if any fan connected in that zone has failed.

Multiple Sensors

Multiple sensors can be connected to the network. Please refer to the actual fan installation instructions for exact quantities.

Installing the Sensor

The unit must be installed away from any direct source of heat (e.g. radiators) and areas where it would be subjected to steam or water spray.

The mounting surface must be vibration free.

The unit is supplied complete with 10 metres of connecting cable with plugs attached. Fasteners for wall fixing are included in the package.

a) Fix one end of the 10m cable to the fans customer connection box (connection sockets marked NET).

b) Select a suitable location for the sensor and arrange the cable in position. Leave approx. 75mm of the cable free at the mounting point to ease the connection of the plug. (Fig. 1).

c) Hold the base of the unit with one hand and the top half with the other. Twist the upper half anti-clockwise to open the unit. (Fig. 2).

d) Feed the cable through the hole of the lower half of the unit and mark the locations of the fixing holes on the wall. There is a raised line inside the base of the unit to aid alignment to the horizontal or vertical. (see Fig.3).

e) Fix the base of the unit to the wall using the fasteners provided, or other suitable fasteners.

f) Plug the cable into the socket of the PCB. (Fig.4).

g) Align the slots of the upper and lower halves of the unit and twist the upper half clockwise to lock the 2 halves together. (see Fig. 5).

Data cable installation

A 4-core SELV data cable is used to connect devices.
Do not run data cable in the same conduit as the mains cables and ensure there is a 50mm separation between the data cable and other cables. The maximum cable run between any two devices is 300m when it is installed in accordance with the instructions.

Please note that the total data cable length used in any system must be less than 1000m. Keep the number of cable joints to a minimum to ensure the best data transmission efficiency between devices.

Adjusting the run on timer ES-PIR2 Run on timer (1-60 minutes)

Use a small screwdriver through the hole in the casing to reach the adjustment potentiometer. Gently turn the screwdriver either clockwise or anti-clockwise to increase or decrease the set point.

Alternatively, open the unit to gain easy access to the potentiometer.

When adjustments are made to the sensor, the LED light on the sensor front will flash on and off to show the set point. First, green flashes will indicate the set point in

Figure 1.

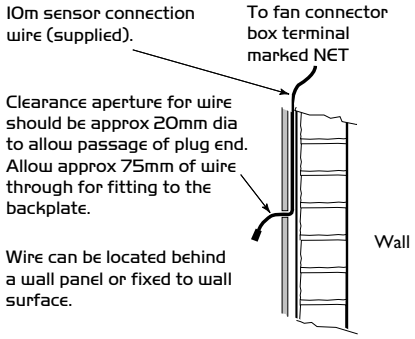


Figure 2.

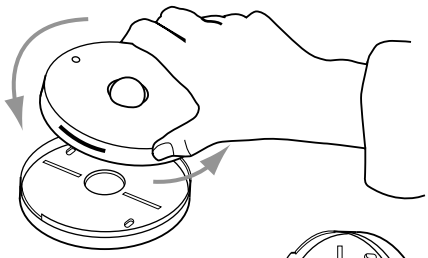


Figure 3.
Feed the cable through the hole in the bottom half of the unit and mark the fixing hole locations on the wall.
Fix this half of the unit to the wall using the fasteners provided.

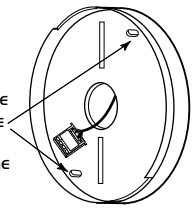


Figure 4.
Plug end mounted into the PCB socket inside the front half of the unit.

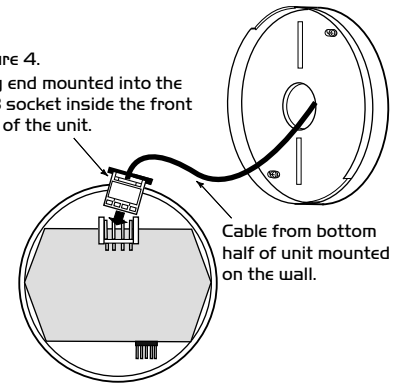
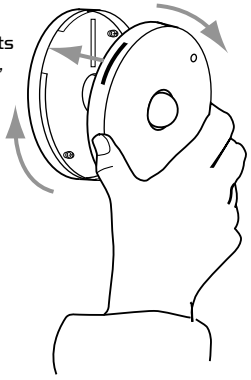


Figure 5.
Line up the slots in the 2 halves, push together and rotate to lock them together.



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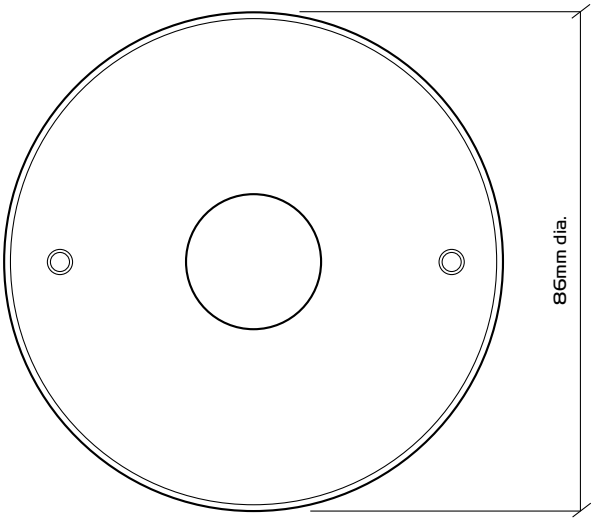
TENS, then red flashes will indicate UNITS. For example one green flash and five red flashes show you that the PIR timer is set to fifteen minutes.

Detection range

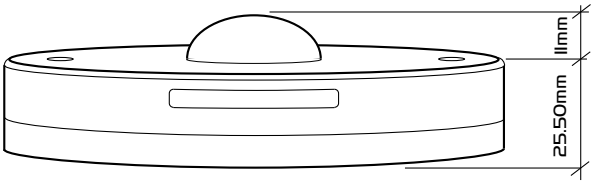
Up to 10m directly in front of lens and up to 2m at 40° to the lens axis.

Dimensions

Plan view



Side view



Maintenance

The unit does not require any routine maintenance. However, for optimum performance, it is advisable to remove any accumulated dust with a low power vacuum cleaner.

NOTE: Installation and Maintenance of the equipment must be as directed in the instructions provided with the unit.

Warranty

The 3 year warranty starts from the day of delivery and includes parts and labour for the first year.
The remaining 2 years covers replacement parts only.
This warranty is conditional on planned maintenance being undertaken.

Service Enquiries

Nuaire can assist you in all aspects of service. Our service department will be happy to provide any assistance required, initially by telephone and If necessary arrange for an engineer to call.

Telephone 029 2085 8585
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