



Do's and don'ts

- **Do** read all of the instruction leaflet before commencing installations.
- **Do** install the sensor with a double-pole isolating switch.
- **Do** make sure the mains supply is switched off and the fuses removed before attempting to make electrical connections or carry out any maintenance or cleaning.

Guarantee

Customers outside the UK – see International below

- UK: The sensor is guaranteed against defects for 3 years from the date of purchase.
- Xpelair reserve the right to repair or replace at their option.
- Please keep your purchase receipt.
- If you have any problems, contact Xpelair's Head Office at the address shown below.

Technical advice and service

Customers outside the UK – see International below.

UK: Xpelair have a comprehensive range of services including:

- Free technical advice help-desk from Engineers, on all aspects of ventilation.
- Free design service, quotations and site surveys.

Please ask for details:

- By telephone on Techline: +44 (0) 8709 000430
- By fax on Techfax: +44 (0) 8709 000530
- At the address below

Head Office, UK Sales Office and Spares

Applied Energy Products Ltd, Morley Way, Peterborough, PE2 9JJ England

Telephone: +44 (0) 1733 456789

Fax: +44 (0) 1733 310606

Sales/Spares Hotline: +44 (0) 8709 000420

Sales/Spares Faxline: +44 (0) 8709 000520

<http://www.xpelair.co.uk>

International

- Guarantee: Contact your local distributor or Xpelair direct for details.
- Technical Advice and Service: Contact your local Xpelair distributor.

XPIRA Movement Sensor



Installation Instructions

Please leave this leaflet with the Sensor for the benefit of the user.

IMPORTANT

- Installation of this product must be supervised by a suitably qualified Electrician.
- Installation and wiring must conform to current IEE Regulations (UK), local or appropriate regulations (other Countries).
- These products are intended for connection to fixed wiring with a protective fuse not exceeding 5 amps. The connection must be made via a double pole isolating switch with a minimum contact gap of 3mm.
- The Sensor is double insulated and does not require earth connection. A parking terminal is provided to allow for continuity of external earth connections only.
- More than one fan may be controlled provided that the total current rating of the sensor is not exceeded.
- If you have any queries before, during, or after installing this product, please contact Xpelair: See back page. For customers outside the UK, please contact your local distributor.

DESCRIPTION

The XPIRA is a Passive Infra Red Sensor designed to detect body heat movement and switch the fan on for a pre-determined time of up to 30 minutes.

RATING

- 230 V AC 50/60Hz
- Rated 2 amp (Fan load)
- Replacement fuses 5 amp

WHERE TO INSTALL

- **Siting of the unit is important.** The unit should be at least 2.0m from the floor and in a position to ensure detection of movement. Care should be taken to avoid any obstructions that may interfere with the effectiveness of the infra-red beams (see Fig 1).
- Do not install where ambient temperatures are likely to exceed 40°C.
- If installed in a bath or shower room, the sensor and isolator **must not be located so that they can be touched by anyone making use of the bath or shower.**
- The sensor **must not** be mounted immediately above a heat source such as a cooker hob or eye level grill.
- If intended for use in possible chemical or corrosive atmospheres, first consult Xpelair for technical advice.

INSTALLATION

Remove the two screws from the fascia and secure the wall box in the required position using the fixing holes in the backplate.

Note

The sensor is supplied with a plastic wall box for surface mounting. If required, it can be recess mounted using a standard single gang metal wall box 86mm x 86mm with a minimum depth of 20mm and 2 screw fixings (these items are not supplied).

Note

The sensor is double insulated and does not require an earth connection. However, a parking terminal is provided to ensure continuity to a fan where this is appropriate.

If using a metal wall box, relevant earthing regulations apply.

Always wear eye protection when drilling or chiselling and take care to avoid any hidden cables or pipes.

Install the double pole isolator in accordance with the manufacturer's instructions.

ELECTRICAL CONNECTION

- **Isolate the mains supply and remove the applicable fuses.**
- Route the cable from the fan position to the sensor position.
- If connecting to an existing circuit, remove any unwanted cable and make safe.
- Route the cable from the sensor position to the isolator position.
- Connect the cable into the fan terminal block (see Fig 2).
- Connect the other end of the fan cable into the sensor terminal 1 and either terminal marked 4 (see Fig 2).
- Connect the supply cable into the sensor terminals, Live to 3 and Neutral to either terminal marked 4 (see Fig 2).
- *Sensor terminal 2 [T] can be connected to a lighting circuit (see Fig 2, shown dotted) to initiate the operation of the unit. The lamp may be omitted if desired. If this option is used, it is strongly advised that the lighting circuit is wired from the switched side of the isolator as shown.*
- Connect the other end of the supply cable into the isolator in accordance with the manufacturer's instructions.
- Route the cable between the isolator and the point of mains connection.
- **CHECK TO ENSURE THE MAINS SUPPLY IS ISOLATED AND FUSES REMOVED**
- Connect the cable into the isolator in accordance with the manufacturer's instructions.
- Make the connection at the point of the electrical power supply in accordance with all current IEE and local regulations.
- Ensure the earth points are connected as appropriate.
- Replace all covers and terminal enclosures.
- Replace fuses and turn on the supply.

USE AND MAINTENANCE

- The sensor needs to stabilise when first energised and may not respond correctly for the first few minutes. It will then operate automatically.
- A suitably qualified electrician should carry out any required adjustment of the overrun timer at the time of installation.
- The only maintenance required is cleaning. Isolate the electrical supply. Wipe with a moist cloth. Take care not to damage the lens.