

INSTALLATION INSTRUCTIONS

A guide for qualified electricians



Pack contents:

360° flush mounted PIR
with terminal cover

Model:

PIRFM360

Flush Mounted 360° Internal PIR Detector

These instructions are provided as a guideline to assist you.

**PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLATION
AND RETAIN FOR FUTURE REFERENCE**

EVENTUALLY, YOU MAY WANT TO REPLACE THIS PRODUCT:

Regulations require the recycling of Waste from Electrical and Electronic Equipment (European "WEEE Directive" effective August 2005—UK WEEE Regulations effective 2nd January 2007). Environment Agency Registered Producer: WEE/ GA0248QZ.

WHEN YOUR PRODUCT COMES TO THE END OF ITS LIFE OR YOU CHOOSE TO REPLACE IT, PLEASE RECYCLE IT WHERE FACILITIES EXIST - DO NOT DISPOSE WITH HOUSEHOLD WASTE.

CLEANING:

To avoid dust build-up and ensure proper functioning of the PIR sensor, please wipe the sensor lens lightly with a dry cloth every 3 months.

Do not use any chemical or abrasive cleaners.

IF YOU EXPERIENCE PROBLEMS:

If you believe your product is defective, please return it to the place where you bought it. Our Technical Team will gladly advise on any Eterna Lighting product, but may not be able to give specific instructions regarding individual installations.

SPECIFICATION:

- Detection range: 360°, radius 4.5m at an installation height of 3m.
- Duration time: from 10±5 seconds to 14±1 minutes adjustable.
- Voltage: 220-240Vac 50Hz.
- Wattage:
 - Max. 2000W incandescent lamp (resistive load).
 - Max. 500W fluorescent lamp (inductive load).
 - Max. 250W LED (no more than 8 lights).
- Lux control level: from daylight to night adjustable.



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Visit our website: www.eterna-lighting.co.uk

Made in China

READ THIS FIRST:

This light fitting must be installed in accordance with the Building Regulations making reference to the current edition of the IEE Wiring Regulations (BS7671).

Switch off the mains before commencing installation and remove the appropriate circuit fuse.

Disconnect the unit from the electrical supply before flash or high voltage testing.

Do not connect to a circuit which also has large inductive loads connected as spikes generated switching inductive loads may damage electronic components within your PIR switch.

Suitable for indoor use only.

The sensor is designed for optimum performance when installed into a domestic ceiling.

Do not position close to or pointing at any source of heat such as a heater or heat extraction unit or vent. This may cause false triggering.

Do not position close to or pointing at any bright light source as this will hinder operation of the Lux control.

Before making fixing hole, check that there are no obstructions hidden beneath the mounting surface such as pipes or cables.

Do not fit in surfaces which are damp, freshly painted or otherwise electrically conductive (e.g. metallic surfaces).

If the location of your new unit requires the provision of a new electrical supply, the supply must conform with the requirements of the Building Regulations making reference to the current edition of the IEE Wiring Regulations (BS7671).

This product is designed for permanent connection to fixed wiring: this should be either a suitable lighting circuit (protected with a 5 or 6 Amp MCB or fuse) or a fused spur (with a 3 Amp fuse) via a fused connection unit. We recommend that the supply incorporates a switch for ease of operation.

Make connections to the electrical supply in accordance with the following code:

Live (in/out) - Brown or Red
Neutral - Blue or Black

When making connections, ensure that the terminals are tightened securely and that no strands of wire protrude. Check that the terminals are tightened onto the bared conductors and not onto any insulation.

This fitting is double insulated, do not connect any part to earth.

You are advised at every stage of your installation to double-check any electrical connections you have made. After you have completed your installation there are electrical tests that should be carried out: these tests are specified in the Wiring Regulations (BS7671) referred to in the Building Regulations.

Never remove the lens cover as the sensor inside will be damaged and any guarantee will become invalid.

When making connections, ensure that the terminals are tightened securely and that no strands of wire protrude. Check that the terminals are tightened onto the bared conductors and not onto any insulation. Wrap loose terminal blocks well with insulating tape.

INSTALLATION:

1. Choose the location for your new PIR switch according to the conditions listed above.
2. Cut a round hole 2 1/2" (63mm) in diameter in your mounting surface.
3. Using a small flat-bladed screwdriver, remove the transparent cover from the mains terminals.
4. Remove the top of the cord grip from the top of the PIR unit.
5. With the supply and load wiring hanging through the hole in your ceiling, connect the Live in, Live load and Neutral wires according to the colour code above and the markings next to the terminals. (See fig. 4 opposite).
6. Fit the cables under the cable grip and tighten securely.
7. Press the transparent cover back into position.
8. Set the Lux control to the day position (☼) and the time control to minimum. (See fig. 5 opposite).
9. Press the side springs upwards against the side of the unit and offer up into the hole in your ceiling. (See fig. 2 opposite).
10. Release the unit into the hole allowing the strength of the springs to hold it in position.

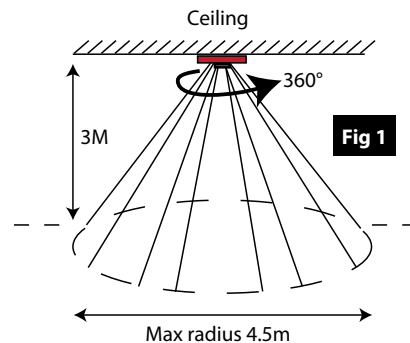


Fig 1

OPERATION:

WALK TEST

When the power is switched on, the unit will enter its "warm up" mode for approximately 1 minute after which it will enter "auto" mode. When the sensor is in "auto" mode, a walk test can be performed.

With the Lux control set to daylight (☼) and the time control set to minimum (you should have done this when you fitted the unit into your ceiling), you will be able to determine the area of detection by walking slowly beneath the sensor. The load will be switched on for a pre-set period of time when the sensor is triggered.

Please note that the sensor is more sensitive to movement past it than to movement directly towards it, see diagram opposite.

After completing the walk test, set the Lux control to the night position (if night-time only operation is required) and set the time control to achieve the desired time on duration.

ADJUSTING THE LUX CONTROL

The Lux control has a built-in photocell that detects daylight and darkness. Turning the control towards the (☼) symbol will result in the unit switching in all light levels. Turning the control towards the (☾) symbol will result in the unit switching only in reduced light. Set the unit to switch at the desired light level using this control.

ADJUSTING THE DURATION TIME

The duration time is the length of time for which the load remains energised after the sensor has been triggered. This time can be adjusted from 10±5 seconds to 14±1 minutes. Turning the control from the [+] symbol to the [-] symbol will reduce the duration time.

NOTE: Once the sensor has been triggered, any subsequent detection will start the time period again from the beginning.

RESPONSE TIME

It is normal for a delay of several seconds to occur between the sensor detecting movement and the load switching on.

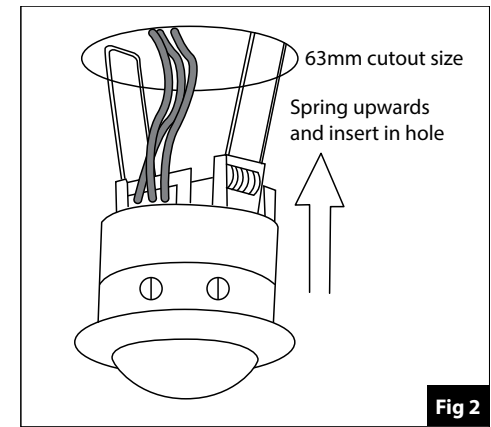


Fig 2

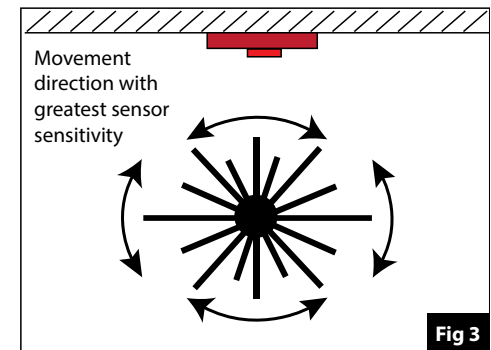


Fig 3

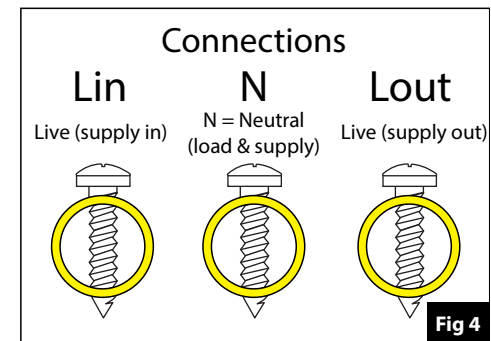


Fig 4

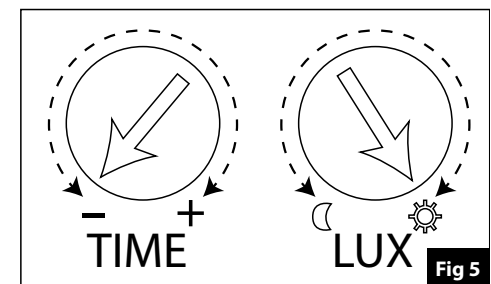


Fig 5