

## IMPORTANT

The LUX and TIME controls are delicate and great care should be taken when making adjustments not to exceed the limit of the controls.

When the mains power is disconnected, the battery will discharge if the battery switch is left in the ON position. Once power is restored, the switch may operate erratically until the battery has recharged. The time to return to normal operation will depend on how long the mains was disconnected and the frequency of triggering during the recharge period.

Some fluorescent light fittings do not switch reliably with automatic electronic devices such as this PIR wall switch. A power factor correction (PFC) capacitor may be required. If your fluorescent light fitting does not switch correctly, we recommend connecting a PFC between the Live and Neutral terminals in your light fitting of at least 1µF.

This device is not suitable for switching the following:-

- Heating and ventilation apparatus
- Contactors
- Discharge Lighting such as SON or Metal Halide

## SPECIFICATIONS

- 2 wire connection (live only)
- 16 amp relay (see load, below)
- Override Auto / ON switch
- Mounting height: 1.2m - 2m
- Detection angle: 120°
- Max detection distance: 12m
- Lux level: 0-20 lux - 2000 lux
- Time: 5 sec - 15 min
- Voltage: 220 - 240Vac - 50Hz
- Standby power: less than 1 watt

## LOAD

- |                          |     |                     |
|--------------------------|-----|---------------------|
| • Incandescent lighting: | 10A | Max 2000W / Min 25W |
| • Fluorescent lighting:  | 3A  | Max 500W            |
| • Compact Fluorescent:   | 3A  |                     |

## EVENTUALLY, YOU MAY WANT TO REPLACE THIS LIGHT FITTING

When your switch comes to the end of its life or you choose to update or upgrade it by replacing it, please do not dispose of it with your normal household waste, please recycle where facilities exist. When you need to dispose of this fitting, check with your wholesaler or local authority for suitable options. New 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.

## IF YOU EXPERIENCE PROBLEMS

If your switch is defective or develops a fault, please return it to the place where you bought it. You can call our Helpline for advice. The Helpline will gladly give advice on any aspect of any Eterna Lighting product but may not be able to give specific instructions regarding individual installations.

**If in doubt, consult a qualified electrician.**

110224-2BT(PA)



### HELPLINE:

- T: 01933 673 144
- F: 01933 678 083
- E: sales@eterna-lighting.co.uk

Visit our website:

[www.eterna-lighting.co.uk](http://www.eterna-lighting.co.uk)



## SAFETY AND INSTALLATION INSTRUCTIONS



### Pack contents:

- 1 x PIR wall switch
- 2 x M3 fixing screws
- 2 x plastic screw covers
- 1 x instruction leaflet

## Model: WS120PIR PIR Wall Switch

These instructions are provided as a guideline to assist you.  
**PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLING YOUR NEW SWITCH**  
**PLEASE RETAIN FOR FUTURE REFERENCE**

## General Information and Cleaning

### READ THIS FIRST

Check the pack and make sure you have all of the parts listed on the front of this booklet. If not, contact the outlet where you bought this product.

**This switch must be installed by a competent person in accordance with the Building Regulations** making reference to the current edition of the IEE Wiring Regulations (BS7671). The Building Regulations may be obtained from OPSI or viewed and downloaded from [www.communities.gov.uk](http://www.communities.gov.uk) following the link for Building Regulations.

As the buyer, installer and/or user of this product it is your own responsibility to ensure that it is fit for the purpose for which you have intended it. Eterna Lighting cannot accept any liability for loss, damage or premature failure resulting from inappropriate use.

If in any doubt, consult a qualified electrician.

This product is designed and constructed according to the principles of the appropriate British Standard and is intended for normal service.

This PIR wall switch can be installed as a direct replacement for a normal one way wall switch. The switch body will fit into a standard wall box using the screws supplied.

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

Do not overload the switch; check that the total wattage of all connected fittings does not exceed the maximum marked on the switch and listed below in these instructions.

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

Do not connect to a circuit which also has inductive loads connected as spikes generated switching inductive loads may cause erratic operation.

Suitable for indoor use only.

This product is suitable for use in living areas (not for areas constantly subject to moisture)

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

Do not attach to surfaces which are damp or freshly painted.

If the location of your new switch 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).

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 switch is double insulated; do not connect any part to earth.

There is no provision for connection of ring wires, ring wires should be joined using a separate terminal block and insulated well.

Do not connect to Neutral, no neutral connection is required for the correct operation of this switch. Any neutral wires present should be terminated separately and insulated well.

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. If in doubt, consult a qualified electrician.

### CLEANING

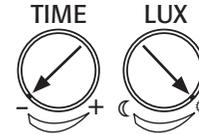
Clean this light switch only with a soft dry cloth.

Do not use any chemical or abrasive cleaners.

## Installation

### INSTALLATION

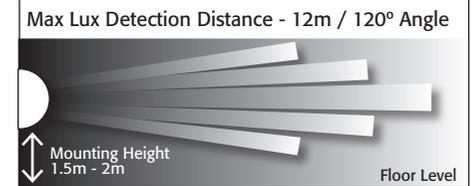
- 1) Connect the live supply wire to the LIVE IN terminal.
- 2) Connect the live wire from your light fitting(s) to the LIVE OUT terminal



- 3) Turn the TIME control to minimum (-)
- 4) Turn the LUX control towards the sun (☉) symbol
- 5) Turn the battery switch to the ON position
- 6) Fix the switch into your back or pattress box using the 2 screws supplied
- 7) Restore the power.
- 8) The switch will begin switching as movement of warm bodies is detected. The PIR will switch off approximately 5 seconds after the last movement is detected.
- 9) If the switch is switching your light fittings correctly you can then adjust the time setting to suit the installation function (5 sec to 15 min). We recommend that a minimum of 2 minutes be set for fluorescent lights or fittings with CFLs installed.
- 10) When the ambient light is at the level at which you want to PIR to switch on and off, slowly turn the LUX control until the PIR switches off. Note that the determination of ambient light by the human eye is subjective and approximate, this step may need to be repeated two or three times to find the most satisfactory setting.

### ADDITIONAL SWITCHES

Additional switches may be connected in parallel.



### OPERATION

Once set up, the switch will operate when movement is detected, the timer set to turn off the lights will recommence with every detection. The lights will turn off at the pre-set time after the last movement has been detected.

The rocker switch on the right hand side of the wall switch over-rides the automatic function to maintain the switch in power-on mode until the rocker is switched back to auto.

**“Auto position”** the unit works on PIR detection at the pre-set LUX level and duration TIME.

**“ON position”** means light will stay on continuously whether or not the PIR has been triggered. When the switch has been turned back to Auto it will switch off after the pre-set time has elapsed.

