



SAFETY AND INSTALLATION INSTRUCTIONS

Models:

EPIR120BK, EPIR120WH,

EPIR400BK, EPIR400WH

PIR Halogen Floodlight 110°

IMPORTANT! Please read these instructions before installing your new fitting.
Please retain for future reference.



Pack Contents

PIR Halogen Floodlight 120W or 400W x 1

Halogen Lamp 120W or 400W x 1

General Information, Safety and Installation Instructions

Introduction:

Your new floodlight incorporates a PIR (Passive Infra Red) sensing device which is sensitive to movement of warm objects within a preset operating zone and immediately switches the light on when movement is detected.

This makes this fitting ideal for automatically illuminating pathways, steps, patios, porches, or whatever area you have selected to light for reasons of safety, convenience or security. While there is movement within range of the unit the light will remain on.

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 product contains glass, care must be taken when assembling, fitting or handling to prevent personal injury or damage to the product.

This light fitting 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 HMSO or viewed and downloaded from 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 this fitting 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.

The lamps (bulbs/tubes) supplied with this fitting are consumable parts and therefore may be outside of any warranty offered.

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

When working at heights, please use a suitable platform.

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

Suitable for outdoor use.

This product is suitable for installation on surfaces with normal flammability e.g. wood, plasterboard, and masonry. It is not suitable for use on highly flammable surfaces (e.g. polystyrene, textiles).

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

The chosen location of your new fitting should allow for the product to be securely mounted and safely

connected to the mains supply (lighting circuit).

When choosing the location for your new fitting, ensure that the fixings will be anchored in a solid surface e.g. concrete, brick or a joist—do not fix directly onto panelling, cladding, plasterboard etc.

If the location of your new fitting 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 - Brown or Red
Neutral - Blue or Black
Earth - Green and Yellow

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 product must be connected to Earth.

IMPORTANT— Always switch off at the mains before changing the lamp.

Do not mount on a surface that is likely to vibrate.

For maximum detection area, the light should be mounted 1.8 to 2.5 meters (6 to 8ft) above the detection area (refer Fig.1A). The Floodlight scanning specifications (approximately 12 meters at 110°) may vary slightly depending on the mounting height and location.

The detection range of the unit may alter with changes in ambient temperature.

To avoid damage to the PIR unit, do not aim the sensor towards the sun.

To avoid nuisance triggering, the sensor should be directed away from heat sources such as barbecues, Air-conditioners, other outside lighting, moving cars and flue vents.

Do not connect to circuits with other light fittings or appliances such as large fans, washing machines, fluorescent lights etc. that may cause false triggering through spikes generated in the mains supply.

Do not aim towards reflective surfaces such as smooth white walls, swimming pools, etc.

Installation Instructions and Care

Before selecting a place to install your floodlight you should note that movement across the scan area is more effective than movement directly toward or away from the sensor. (refer Fig.1B). When walking directly towards or away from the sensor rather than across, the apparent detection range will be substantially reduced. (refer Fig. 1C)

Do not attempt to modify the light or PIR sensor unit, there are no user serviceable parts inside.

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.

Installation

1. Remove the bracket from the light by removing the screws and nuts from each side. Take care not to lose any of these parts as the nuts are not captive within the fitting—see fig.2
2. Fix the bracket to the mounting surface using a spirit level (if available) to ensure that the bracket is fixed level and using appropriate fixings (not supplied).
3. Attach the light fitting to the bracket using the screws, washers and nuts you removed earlier.
4. Rotate the fitting in the bracket so that the light faces directly downwards, this will give you easy access to the connection box from above.
5. Remove the cover from the connection box by removing the four screws and lifting off.
6. Remove the gland nut from the side of the connection box and thread your supply cable through.
7. Remove the rubber gland from the cable entry on the side of the box and thread onto the cable.
8. Thread the supply cable into the connection box and make the connections according to the colour code listed opposite and observing the terminal identification markings inside the connection box.
9. Push the rubber gland and nut back along the cable until they locate in the threaded cable entry and tighten the nut sufficiently to grip the cable and make the entry water-tight. Do not over-tighten.
10. Replace the connection box cover and replace the four screws. Ensure that the sealing gasket is correctly positioned.
11. Adjust the position of the light so that it illuminates the desired area and limiting the spread of light onto neighbouring property.

12. Tighten the bracket fixing screws on the side of the fitting to lock in position.
13. Undo the screw at the top of the glass safety shield on the front of the light fitting and remove the halogen lamp.
14. Using a soft, dry, clean cloth, grip the lamp and fit it between the sprung contacts in the lampholder.
15. Close the glass safety shield and tighten the screw. Ensure that the waterproofing gasket is correctly positioned.
16. Adjust the position of the PIR detector to cover the desired area.
17. You can check the operation of the PIR detector by performing a “walk test”, see below.
18. Restore the power and switch on.

Understanding the controls

(referring to the Fig.3)

ADJUSTING THE DURATION TIME: The length of time that the light remains switched on after activation can be adjusted from (5-15) seconds to (4±1) minutes. Turning the TIME control towards the (-) reduces the time that the light stays on after activation. Turning it towards (+) increases the time the light stays on after activation.

Note: Once the light has been triggered by the PIR sensor any subsequent detection will start the timed period again from the beginning.

ADJUSTING THE LUX CONTROL LEVEL: The Lux control module has a built-in sensing device (photocell) that detects daylight and darkness. Rotating the LUX knob clockwise is from light (☀) to dark (☾). The (☀) position denotes that the Floodlights can work at day and night, and the (☾) position only work at night. You can set to operate the unit at the desired level by adjusting the LUX knob.

SETTING THE CONTROLS: Turn the Lux control knob to light (☀) position, turn the wall switch on and wait half a minute for the control circuit to stabilize. At this stage ensure that the TIME control knob is set at minimum duration time (-) position (Rotating the TIME knob anti-clockwise to stop-position). The floodlight will now switch on and remain on for about 5 – 15 seconds after each detection.

1. Direct the sensor toward the desired area to be scanned by adjusting the swivel joint on the sensor arm.

Important: loosen the lock nuts and screws on sensor and floodlight before making any adjustments.

2. Have another person move across the center of the area to be scanned and slowly adjust the angle of the sensor arm until the unit sensors the presence of the moving person, causing the floodlight to switch on. (refer Fig. 1B).

Installation Instructions and Care

- Adjust time control to required setting.
- To set the light level at which the floodlight will automatically switch "on" at night, turn the LUX control knob from daylight (☀) to night (🌙). If the floodlight is required to switch on earlier, e.g. dusk, wait for the desired light level, then slowly turn the LUX control knob towards daylight while someone walks across the center of the area to be detected. When the floodlight switches on, release the LUX control knob. You may need to make further adjustments to achieve your ideal light level setting.

Auto / Manual modes

When the power is first switched on, the unit enters a warm-up period for about 1 minute and then defaults to auto mode.

Once in auto mode, turn the power off for approximately 4 seconds and then back on again. The light will now stay on and be unaffected by the duration or lux control.

If the unit is turned off for at least 30 seconds, when it is turned on again it will enter its warm-up period and

then switch to automatic mode

Specification

Detection range:

Max. 12meters at approx.110°scan (see notes above)

Duration Time adjustment:

(5-15) seconds to (4±1) minutes.

Detection circuitry:

Passive Infra-Red (PIR)

Weatherproof:

IP44

Power required:

230V~ 50 Hz

Maximum load:

EPIR120BK/WH 120W R7s Linear Halogen

WEPIR400BK/WH 400W R7s Linear Halogen

Recommended power supply cable:

H05RN-F 3G 1.0mm2

Protection:

Class I

Safety Markings:



Problem	Possible Cause	Suggested Solutions
Light does not switch on when there is movement in the detection area	<ol style="list-style-type: none"> No mains voltage Bulb - faulty/missing Light nearby is too bright Controls set incorrectly Sensor positioned in wrong direction 	<ul style="list-style-type: none"> Check all connections, fuses and switches Check. Replace Redirect sensor or relocate the unit Readjust sensor angle or control knob Redirect sensor and/or adjust
Lamp switches on for no apparent reason (false trigger)	<ol style="list-style-type: none"> Heat from lamp body activating sensor Heat sources i.e; air-con, vents, heater flues, bbq's, outside light, moving cars can activate sensor Animals or birds e.g. possums or domestic animals Interference from on/off switching of electric fans, lights on the same circuit as your security floodlight. (This problem does not always occur but a faulty switch or noisy fluorescent light may cause the security floodlight to switch on Reflection from swimming pool or reflective surface 	<ul style="list-style-type: none"> Adjust PIR sensor or floodlight to allow a minimum gap 40mm between floodlight body and sensor head Adjust direction of sensor head away from these sources Redirecting sensor may help Should the false triggering become, troublesome, consider: <ol style="list-style-type: none"> Replacing a faulty switch. Replacing noisy fluorescent tubes/starters Connecting the floodlight to a separate circuit (in most cases where one or more of the above suggestions have been carried out, false triggering has been reduced) Relocate the fitting
Light remains on	<ol style="list-style-type: none"> Continuously false triggered Time to set too long 	<ul style="list-style-type: none"> Redirecting sensor head may help Reduce time
Light switches on during daylight hours	<ol style="list-style-type: none"> LUX control knob is set to daylight position 	<ul style="list-style-type: none"> Turn the LUX control knob to desired light level setting

Note: All passive infra red detectors are more sensitive in cold and dry weather than warm and wet weather.

Installation Instructions and Care

Problem	Possible Cause	Suggested Solutions
When setting lux controls in daylight the detection distance becomes shorter	1. Interference by sunlight	• Re-test at night

Cleaning

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

Disconnect the power and clean the exterior only of this fitting with a moist (not wet) cloth.

Do not use any chemical or abrasive cleaners.

Lamp Replacement

1. Switch off the electricity at the mains.
2. Undo screw at the top of the glass safety shield and allow to hang down on the hinge
3. Remove the lamp.
4. Insert new lamp.
5. Replace the glass safety shield and tighten the retaining screw. Ensure that the gasket is positioned correctly
6. Restore the power and switch on.

Replacement Lamp Type

	EPIR120BK/WH	EPIR400BK/WH
Wattage:	120W	400W
Supply Voltage:	240V	
Type:	R7s Linear Halogen	

If you experience problems:

If your light 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.

Help Line

Tel: 01933 673 144

Fax: 01933 678 083

Email: sales@eterna-lighting.co.uk

For all other information visit our website

www.eterna-lighting.co.uk

Eventually, you may want to replace this light fitting

When your light fitting 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 retailer 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



Reference Diagrams

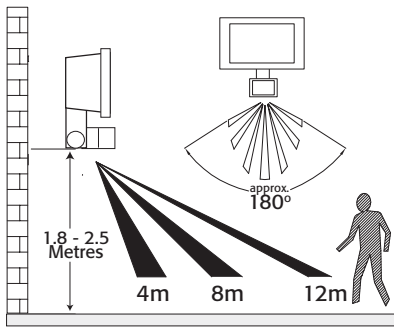
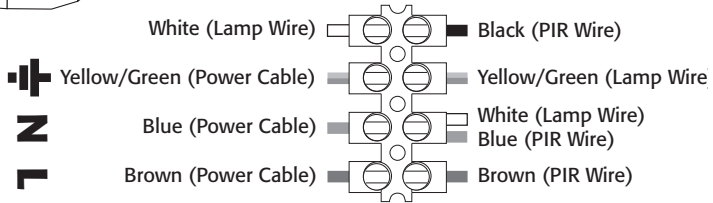
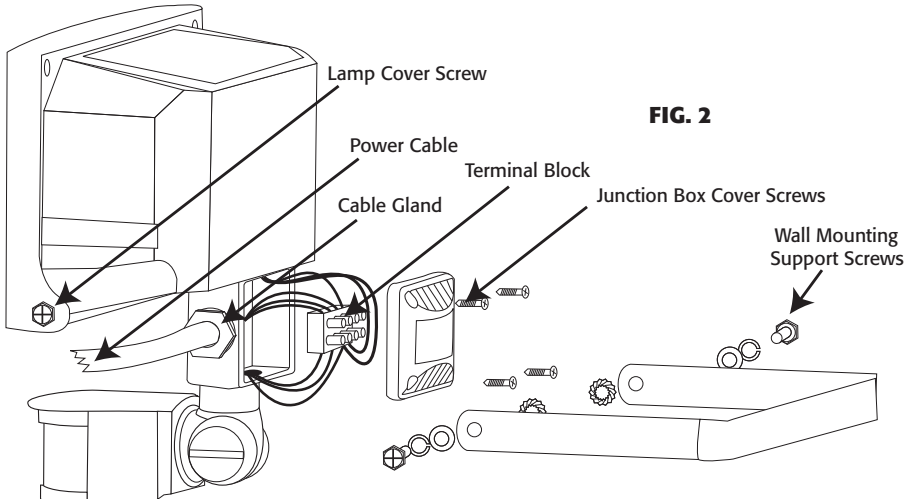


Fig. 1(A) Detection Area

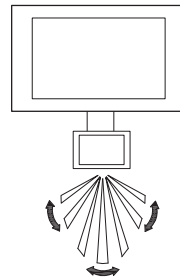


Fig. 1(B) Good

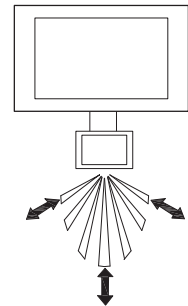


Fig. 1(C) Bad

