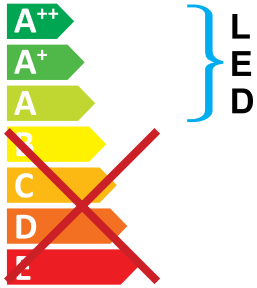
LED LAMP SPECIFICATIONS:	
Lumens total flux	**330 lm**
Lumens 120° flux	**300 lm**
Rated Wattage	6W
Rated luminous flux	300 lm
Nominal life time of the lamp	35,000 hrs
Colour temperature	3100K
Number of switching cycles before premature lamp failure	≥15,000
Warm-up time up to 60 % of the full light output	Instant full light
Dimmable	No
LED array dimensions (Ø)	65mm
Nominal beam angle	120°
Rated power	6W
Rated lamp lifetime	35,000 hrs
Lamp power factor	>0.5
Lumen maintenance factor at end of nominal life	≥0.70
Starting time	<0.1s
Colour rendering	≥80
Colour consistency	Within 6 step Macadam ellipse
Rated peak intensity	120cd
Rated beam angle	120°
Voltage	240V
Not suitable for accent lighting	

Eterna MODERNO RANGE

This luminaire contains built-in LED lamps.



The lamps cannot be changed in the luminaire.

874/2012

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:

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.

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.

IP44

Email: sales@eterna-lighting.co.uk / technical@eterna-lighting.co.uk

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

Issue 1116

Made in China

Eterna

INSTALLATION INSTRUCTIONS

A guide for qualified electricians

Pack contents:
1 x LED lantern

Model:

MODERNOBK / MODERNOWH
MODPIRBK / MODPIRWH

6W LED Lantern / 6W LED Lantern With PIR

These instructions are provided as a guideline to assist you.

PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLATION AND RETAIN FOR FUTURE REFERENCE

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 must be installed by a competent person in accordance with the current building and IEE wiring 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.

This product is designed and constructed according to the principles of the appropriate British Standard and is intended for normal domestic service. Using this fitting in any other environments may result in a shortened working life, for example where there is prolonged periods of use or higher than normal ambient temperatures such as lighting public or shared spaces.

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

This unit is 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

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

Make sure that the fixings are strong enough to support the considerable weight of the fitting and hold it rigidly.

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.

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.

This product is not intended to be used by children and persons with sensory, physical and/or mental impairments that would prevent them from using it safely.

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 current IEE wiring and building regulations.

INSTALLATION:

ISOLATE MAINS BEFORE CARRYING OUT INSTALLATION

01) Undo the nuts each side at the front of the fitting and lift off the front section of the lantern

02) Using the back cover of the fitting as a template, mark the location of the fixing holes.

03) Pierce the rubber grommet in the back of the fitting. Make the hole as small as possible so that a good watertight seal is maintained when the cable has been threaded through.

04) Thread the cable through the grommet.

05) Secure the fitting to the wall using fixings (not supplied).

06) Make the connections to the terminal block according to the colour code and symbols:

LIVE - Brown or Red • **NEUTRAL** - Blue or Black

07) Connect the two wires from the front half of the lantern to the push terminal block in line with the colour code and symbols (see fig. 4 opposite).

08) Replace the front part of lantern and secure by tightening the two nuts making sure you have a rubber sealing washer under both nuts.

09) Restore power.

10) Switch on and product should function.

SPECIFICATIONS:

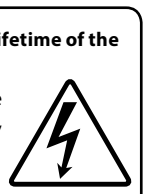
- Detection range: Approx. 120° (horizontal), Max. 8 metres.
- Duration time: from 5 sec - 5 mins. (adjustable).
- No override facility.
- LUX - adjustable.

LAMP REPLACEMENT:

The light source is designed to last the lifetime of the luminaire.

The light source contained in this luminaire shall only be replaced by the manufacturer, service agent or a similar qualified person.

CAUTION, RISK OF ELECTRIC SHOCK.



WHERE TO FIT YOUR PIR FULL LANTERN:

To achieve best results we suggest you take the following points into consideration:

Do not mount on a surface that has vibration.

Ideally the PIR lantern should be mounted 1.8 to 2.5 metres (6 to 8ft) above the area to be scanned (refer to Fig. 1 below).

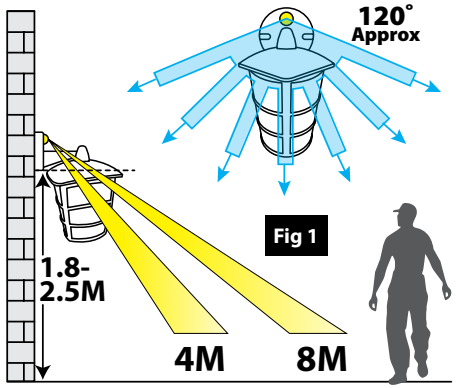


Fig 1

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

Avoid positioning the sensor unit adjacent to a bright light source which may prevent the unit from operating when the lux control is set to operate in dark conditions.

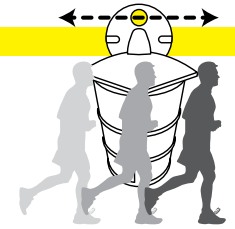
Avoid nuisance false triggering by directing sensor away from:

Trees and shrubs
Reflective surfaces such as smooth white walls
Swimming pools
Heat sources such as boiler flues

The PIR sensor scanning specifications (approximately 8 metres at 120°) may vary slightly depending on the mounting height and location.

The detection range of the unit may also alter with temperature change. Before selecting a place to install your PIR lantern you should note that movement across the scan area is more effective than movement directly towards or away from the sensor (refer to Fig. 2 above).

If movement is made walking directly towards or away from the sensor and not across the apparent detection range will be substantially reduced (refer to Fig. 3 above).



EFFECTIVE:
Movement across scan area

Fig 2

LESS EFFECTIVE:
Movement directly in front of scan area

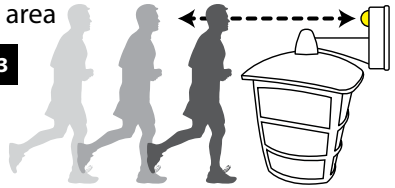


Fig 3

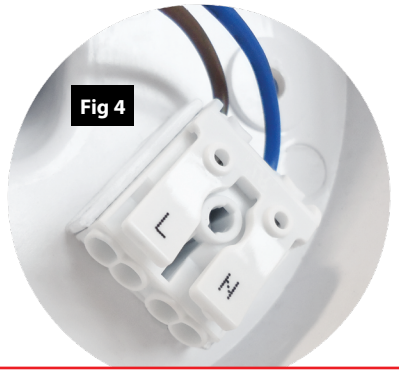
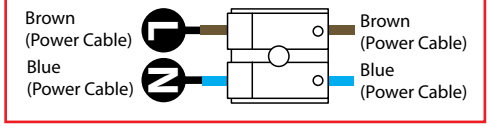


Fig 4



UNDERSTANDING THE CONTROLS FOR PIR MODEL:

ADJUSTING THE DURATION TIME:

The length of time that the light remains switched on after activation can be adjusted from 5 seconds to 5minutes. Rotating the TIME screw (+) to (-) will reduce the time duration.

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:

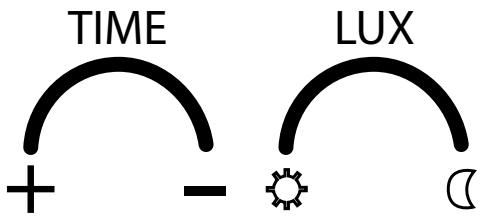
The lux control module has a built-in sensing device (photocell) that detects daylight and darkness. The (☼) position denotes that the bulkhead light can work at day and night, and the (☽) position will only work at night.

You can set to operate the light at the desired level by adjusting the LUX screw.

SETTING THE CONTROLS:

Turn the LUX control knob to light (☼) position, at this stage ensure that the time control screw is set at minimum duration time (-) position. The bulkhead light will now switch on and remain on for about 5 seconds. Direct the sensor toward the desired area to be scanned. Adjust time control to required setting.

To set the LUX level at which the lamp will automatically switch "on" at night, turn the LUX control screw from daylight to night (☽). If the lamp is required to switch on earlier, e. g. dusk, wait for the desired environment light level, then slowly turn the LUX control screw towards the daylight (☼) while someone walks across the centre of the area to be detected. When the lamp switches on, stop adjusting.



TROUBLESHOOTING AND USER HINTS:

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

PROBLEM	POSSIBLE CAUSE	SUGGESTED REMEDY
Light does not switch on when there is movement in the detection area.	1. No mains voltage	Check all connections, and MCB Fuses / switches
	2. Nearby lighting is too bright	Relocate the unit
	3. Wired incorrectly	Check wiring and confirm its wired as per the wiring diagram
Light switches on for no apparent reason (false trigger)	1. Heat sources such as air-con, vents, heaters, flues, other outside lighting, moving cars trees or shrubs are activating sensor	Relocate fitting
	2. Animals / birds activating sensor	Relocate fitting
	3. Interference from on/off switching of electric fans or lights on the same circuit as your fitting. (This problem does not always occur but a faulty switch may cause the fitting to switch on)	Should the false triggering become, troublesome, consider: (a) Replacing a faulty switch (b) Connecting the fitting to a separate circuit (in most cases where one or more of the above suggestions have been carried out, false triggering has been reduced)
	4. Reflection from swimming pool, or reflective surface such as smooth white walls	Relocate fitting
Light remains on	Continuously false triggered	Relocate fitting
Light remains on at nighttime	Possible heat source in detection zone	Cover PIR sensor lens with a thick cloth, if the light turns off check detection area for heat or reflective source
When setting the lux controls in daylight the detection distance becomes shorter	Interference by sunlight	Re-test at night