

**REPLACEMENT BATTERY TYPE:**  
3.2V 1000mAh LiFePO4 – replacement battery code:  
EB23

**BATTERY REPLACEMENT:**  
If after routine operation check, the lamp does not remain lit for the three hour period, a new battery pack may be required.

- 01) Switch off the electricity at the mains, both switched and permanent supply.
- 02) Allow batteries to fully discharge then reconnect to supply and allow to charge for 24 hours.
- 03) Test again for 3 hours, if light does not remain lit change the battery pack as follows:
- 04) Disconnect from the mains supply – both permanent and switched supply and then remove the diffuser.
- 05) Press the two tabs and open the gear tray.
- 06) Unplug the battery lead from the circuit board.
- 07) Remove the battery pack and lift the battery pack out of the fitting.
- 08) Write current date on the new battery pack.
- 09) Fit new battery pack and secure in place.
- 10) Plug battery pack into circuit board.
- 11) Close and secure gear tray.
- 12) Replace diffuser.
- 13) Restore power and allow to charge for 24 hours.
- 14) Perform full operation check and update test record.

**IMPORTANT NOTES:**

The battery charging circuit and components are separated from the mains by at least basic (single layer) insulation.

When energised by a constant mains supply, the battery will be constantly charged whether or not the lamp is illuminated. On failure of the constant mains supply, the fitting will switch automatically using transistorised switching from battery charging to battery discharge powering the lamp whether or not the lamp was illuminated before the power failure.



**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 February 2014). 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.

**INDUSTRIAL BATTERIES:**

Within certain products Eterna Lighting Ltd places lead acid, lithium ion, nickel cadmium & nickel metal hydride batteries on the market. Industrial batteries are subject to waste regulation under the Waste Batteries and Accumulators Regulations 2009 and should be disposed of responsibly. Purchasers may be able to dispose of their waste industrial batteries locally via legitimate licensed trade waste contractors. Eterna is obliged to take back, free of charge and within a reasonable time, waste industrial batteries of the same chemistry supplied to a Purchaser, for treatment and recycling and is required to do this in any calendar year new industrial batteries are placed on the market. In certain circumstances, this may include batteries not originally supplied by Eterna. If any Purchaser requires Eterna to take back Industrial batteries, please email: [technical@eterna-lighting.co.uk](mailto:technical@eterna-lighting.co.uk), who will then advise on the necessary arrangements for the receipt, proper treatment and recycling of, the waste industrial batteries.

**CLEANING:**

Clean this fitting only with a soft dry cloth. Do not use any chemical or abrasive cleaners.

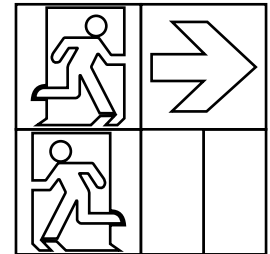
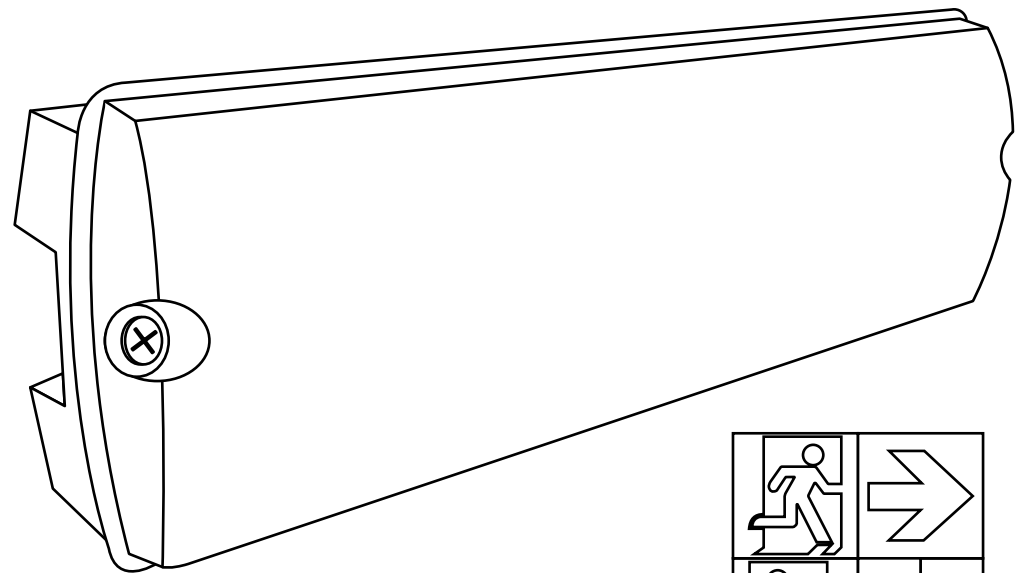
**IF YOU EXPERIENCE PROBLEMS:**

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.

# eterna.

## INSTALLATION INSTRUCTIONS

### E14BH1 110V IP65 3W Maintained Bulkhead



Huxley Close, Wellingborough, Northamptonshire, UK, NN8 6AB  
Unit B4D, Airport Business Park, Cloghran, Co. Dublin, Ireland, K67X 7H9

**Email:** [sales@eterna-lighting.co.uk](mailto:sales@eterna-lighting.co.uk) / [technical@eterna-lighting.co.uk](mailto:technical@eterna-lighting.co.uk)  
**Visit our website:** [www.eterna-lighting.co.uk](http://www.eterna-lighting.co.uk)

**Pack contents:** 1 x Emergency bulkhead, 1 x maintenance check record, ISO 7010 legend set

## A guide for qualified electricians

Made in China

Issue 1125

**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 light fitting must be installed in accordance with the Building Regulations making reference to the Wiring Regulations BS7671.

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

Suitable for indoor or outdoor use.

This product is suitable for installation with normal flammability e.g wood, plasterboard and masonry.

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 (e.g. to a ceiling joist) and safely connected to the mains supply (lighting circuit).

Ensure that the fitting will be accessible after installation for maintenance.

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 Wiring Regulations (see above).

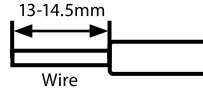
You are advised at every stage of your installation to double-check any electrical connections you have made. After you have completed your installation there are electrical tests that should be carried out: these tests are specified in the Wiring Regulations (BS7671) referred to in the Building Regulations.

The batteries supplied with this fitting are a consumable part and therefore may be outside of any warranty offered.

**INSTALLATION:**

**DANGER! Please note that there are two live supplies, one switched and one permanent; please ensure you isolate both before you undertake any work on the emergency fitting.**

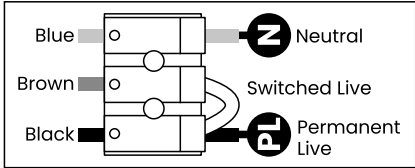
**NOTE: Wires should be stripped 13-14.5mm for best fit with the push-fit terminal block.**



- 01) Undo the screws at each end of the diffuser and lift off.
- 02) Press the tabs protruding from the gear tray to open.
- 03) Make the cable entry and fixing holes as required. Inside the back of the fitting, there are markings to assist you.
- 04) Using the back of the fitting as a template, mark the position of the fixing holes on your mounting surface.
- 05) Make fixing holes and fit plugs as appropriate.
- 06) Secure the back of the fitting to the mounting surface using suitable fixings (not supplied).
- 07) Apply a silicon sealant to the fixings if moisture or weather-proofing is required.
- 08) Fitting a cable gland will also be necessary if moisture or weather-proofing is required.
- 09) Thread the supply cable through the entry point and into the fitting.
- 10) Make connection to the mains supply according to the colour code below. Take care not to leave any strands protruding from the terminals and that the terminals clamp onto the bare wire and not onto the insulation.

N - Neutral (Blue/Black)  
L - Permanent Live (Brown/Red)

**This product is double insulated. Do not connect any part to Earth.**



**MAINTAINED VERSION ONLY:**  
**NOTE:** to convert the maintained fitting to non-maintained operation, remove the link between terminals "PL" and "SL".  
**NOTE:** if the lamp is to be switched, remove the link from between the terminals "PL" and "SL" and connect cable from your switch into 'SL'.  
**NOTE:** if the link has been left in place, the fitting should also light. If you have connected a switch across the terminals, test the operation of your switch.

- 11) Mark the current date on the battery pack.
- 12) Connect the battery pack to the circuit board.
- 13) Close the gear tray and press back onto the clips.
- 14) Replace the diffuser and tighten securely.
- 15) Restore the power supply. The LED should light to indicate correct charging.

**OPERATION CHECKS:**

Periodic testing should be carried out to ensure emergency lighting is operating correctly. Interruption of the supply, causing the fitting to be energised from the battery, should be carried out by the operation of a local keyswitch or other isolation device. During this period all fittings should be examined visually to ensure that they are functioning correctly. At the end of the test period the supply shall be restored and all indicator lamps or devices checked to ensure that the normal supply has been restored.

**DAILY:**  
Visual inspection of the battery charge LED.

**EACH MONTH:**  
Isolate the power supply for a period sufficient to ensure that each lamp is illuminated. Endorse the test record form supplied.

**ONCE EACH YEAR:**  
Isolate the power supply and check that the light is still illuminated after 3 hours. Endorse the test record form.

Because of the possibility of a failure of the normal lighting supply occurring shortly after a period of testing of the emergency lighting system or during the subsequent recharge period, all full duration tests shall wherever possible be undertaken preceding time of low risk to allow for battery recharge.

**NOTE:** please keep this instruction booklet and the test record in a safe place. A fire officer or other authorised person may want to see your record of inspection and testing.

**SPECIFICATIONS:**

- Power: Maintained: 3W
- Continuous illumination: >3 hours in emergency operation
- Battery: LiFePO4 3.2V 1000mAh
- Recharge time: 24 hours
- Over-discharge protection: Yes

**LAMP REPLACEMENT:**

**CAUTION, RISK OF ELECTRIC SHOCK**  
**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.

