

## INSTALLATION INSTRUCTIONS

**A guide for qualified electricians**

**3 HOURS DURATION IN EMERGENCY MODE**

### 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:

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.



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)

Made in China

Issue 1120

**Pack contents:**  
1 x LED fitting  
1 x Maintenance check record



Model:

**TSPOTLIP20**

**IP20 LED Emergency Twinspot**

These instructions are provided as a guideline to assist you.

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

## READ THIS FIRST:

**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.

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

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

This unit is suitable for indoor and outdoor use only.

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

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

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 termination.

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.

## LAMP REPLACEMENT:

This luminaire has sealed LED lamps and is maintenance free, no lamp replacement is required.

## 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 and allow batteries to fully discharge then reconnect to supply and allow charging for 24 hours.
- 02) Test again for 3 hours, if light does not remain lit, then change the battery pack as follows:
- 03) Unclip and remove front cover plate.
- 04) Unplug the battery lead.
- 05) Remove the two screws from the back of case that secure the battery pack in place and lift the battery pack out of the fitting.
- 06) Write current date on the new battery pack and fit new battery pack securing in place with the screws, nuts and washers previously removed.
- 07) Reconnect battery.
- 08) Replace and fix front cover plate.
- 09) Restore power and allow charging for 24 hours.
- 10) Perform full operation check and update test record.

## REPLACEMENT BATTERY TYPE:

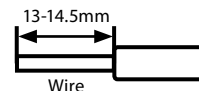
3.6V 4.5Ah NI-CD batteries.

## 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, they should write to the Operations Director, Eterna Lighting Ltd, Huxley Close, NN8 6AB, who will then advise on the necessary arrangements for the receipt, proper treatment and recycling of, the waste industrial batteries.

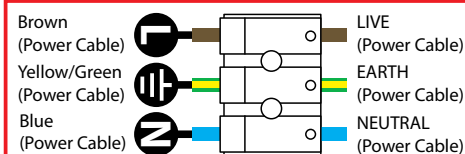
## INSTALLATION:

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



Choose the location of your new fitting giving consideration to all of the points listed above.

- 01) Unclip and lift off front cover.
- 02) Make cable entry hole using an appropriate hole cutter and drill out fixing points in back of housing.
- 03) Using the back of the fitting as a template, mark and drill out fixing holes on your mounting surface.
- 04) Prepare fixing points to mounting surface as appropriate.
- 05) Fitting a cable gland will also be necessary if moisture or weather-proofing is required.
- 06) Thread the supply cable through the gland and into the fitting.
- 07) Secure the back of the fitting to the mounting surface using suitable fixings.
- 08) Connect the un-switched supply cable to terminals marked L E N.



- 09) Mark the current date on the battery pack.
- 10) Connect the battery lead.
- 11) Refit the front cover.
- 12) Restore the power and check fitting is working correctly. Three green LED lights should always be present indicating the fitting is charging and the lamp is healthy.

## 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.**

## IMPORTANT NOTES:

The ballast and control gear must be operated only within the enclosure supplied. The gear must not be operated outside of the enclosure.

The battery charging circuit and DC ballast 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. Both the mains and battery supplies incorporate fuse protection, see fitting for location and rating.



## INSTALLATION, MAINTENANCE AND OPERATION CHECK RECORD

Product Description:

Installation  
Date:

Installation  
Test Duration:

Installed  
By:

[illegible]