advance
LED lighting solutions

Installation Sheet

PART CODE: EMBULK1SUR
DESCRIPTION: 3W LED Emergency Bulkhead
PART CODE: EMBULK1SUR/ST
DESCRIPTION: 3W LED Emergency Bulkhead/Self Test

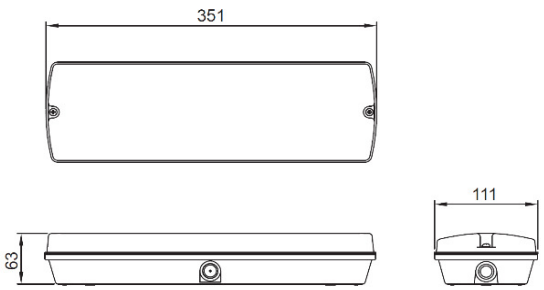
IMPORTANT INFORMATION

- It is recommended that luminaires are installed and fitted by a qualified electrician ensuring the installation complies to the current IEE wiring regulations.
- These instructions should be read carefully and retained after installation for future reference and maintenance.
- Do not install this product on damp or newly plastered surfaces.
- The LEDs in this fitting are not replaceable.
- Ensure all electrical connections are secure and that there are no loose strands.
- This product is NOT dimmable.

PRODUCT SPECIFICATION

Electrical Classification:	Class II
Voltage:	240V / 50Hz
Ingress Protection:	IP65
Rated Wattage:	3W
Lumens:	150lm

DIMENSIONS

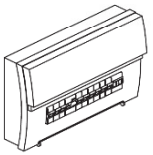


GUARANTEE

This product is guaranteed for a period of 4 years (battery 2 years) from the date of purchase.
The guarantee is invalid in the case of improper use, improper installations or tampering. Should the product fail during the guarantee perios it will be replaced free of charge, subject to correct installation and return of the faulty unit. The provider is not responsible for any costs associated with the replacement of this product.

APPROVALS & CLASSIFICATIONS

IP65 0.3m **3W**



ALWAYS SWITCH OFF
THE MAINS SUPPLY
BEFORE INSTALLATION
OR SERVICING

SUGGESTED METHOD OF INSTALLATION

Read Instructions and check you have all the tools and accessories to complete the installation correctly.

STEP 1

Isolate the mains supply before connecting. Unpack the luminaire and check that you have all the tools to install the luminaire safely and in compliance with current electrical standards. Ensure there are no obstructions or services in the way.

STEP 2

Remove diffuser by removing both fixing screws.

STEP 3

Unclip gear tray and rotate upwards.

STEP 4

Drill out cable entry blank and feed mains cable through hole.

STEP 5

Position and fix the luminaire body to a suitable solid surface. (i) Mark hole position. ii) Drill holes. iii) Fit Rawl Plugs. iiii) Fix into position. Do not install this fitting on newly plastered areas. Fix in 2 pos'ns.

STEP 6

Ensure that the luminaire has a continuous live supply to "L" (Un-Switched Live). The "Maintained" emergency luminaire can be "switched" via connection "LS" (Switched Supply). Terminate the mains cable into the terminal block mounted on the PCB ensuring that the correct polarity is observed. Ensure all conductors are fully sleeved and insulated, see FIG.1

STEP 7

Ensure that the battery cells are connected.

STEP 8

Rotate and re-clip gear tray back into position.

STEP 9

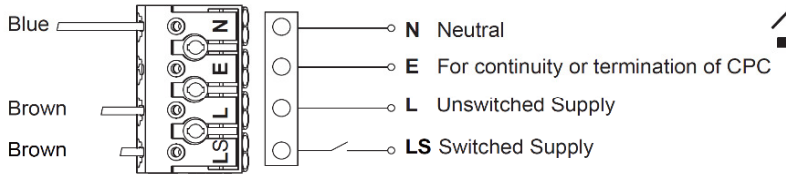
Replace diffuser removed in step 2 and secure with fixing screws.

STEP 10

Turn on mains power supply and test luminaire for correct operation.

This product may contain substances that can be hazardous to the environment if not disposed of properly. Electrical and electronic equipment should never be disposed of with general household waste but must be separated for its correct treatment and recovery. Where possible recycle your packaging.

EMERGENCY TERMINATIONS MAINTAINED (FIG.1)

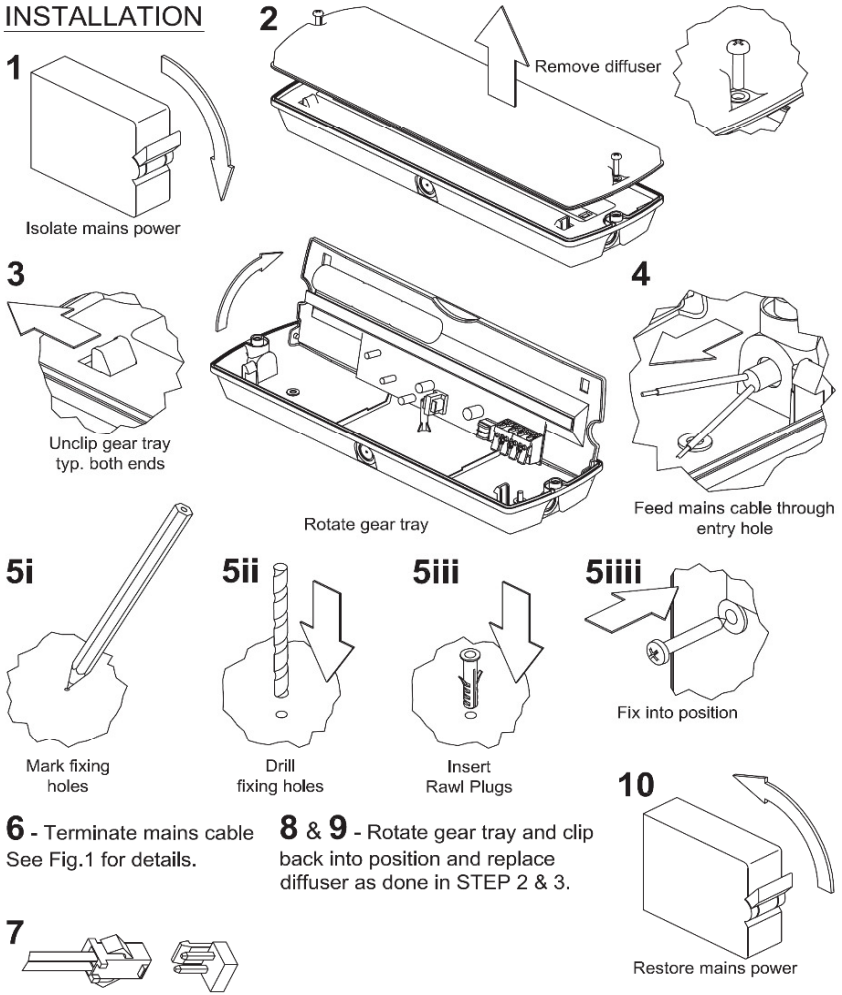


CONNECTIONS - CABLE COLOUR CODING

Brown cable to connection marked 'L' / 'LS' Blue cable to connection marked 'N'

THIS IS A CLASS II DOUBLE INSULATED PRODUCT

INSTALLATION



Specifications for Self Test

Function Test

The function test is carried out every month for 3 minutes. It will check the connection of battery, battery discharging and the connection of LED module.

Duration Test

An initial duration test is carried out at first power on, but after 24 hours charging. The yearly duration test is carried out for 3 hours on one day within the 300th day to the 365th day every year. It will also check the connection of battery and LED module.

A bi-colour indicator will indicate the normal and abnormal status. Green is for conditions are normal and red for the faulty conditions.

LED Colour	Status		On Time (Seconds)	Off Time (Seconds)	Description
Green		Permanent on	/	/	Normal status when mains connected
		Slow flash	1s	1s	Duration test running
		Fast flash	0.2s	0.2s	Function test running
		Normal flash three times only	0.5s	0.5s	Time reset
Red		Permanent on	/	/	Battery failure
		Slow flash	1s	1s	Lamp failure
		Fast flash	0.2s	0.2s	Duration failure - the capacity of the battery is not enough
Both Off		Off	/	/	Emergency mode

A test switch is applied for different functions activated manually.

Duration	Function
Press for <2s	Simulate emergency mode
Press for 3-5s	Start duration test manually. The test can be aborted by pressing off (1-2s).
Press for 5-8s	Start Function test manually for 60s. The test can be aborted by pressing off (1-2s).
Press for >10s	Time Reset

Note:

When the mains is on, the green indicator will be permanent on. It will check the connection of battery and the connection of LED module. If it is a non-maintained fitting, the connection of LED module no need to be checked. When the mains is off, no test will perform.

The luminaries on which we want to perform the function and duration tests must be connected to the mains supply for at least 24 uninterrupted hours. If the mains is off during these tests, the tests will be postponed for 3 days.

When the fault is corrected, the indicator will only be reset to its normal status after mains reconnected or test switch pressed.

An accuracy of the timing of the test interval is ensured that it has an accuracy of ±75 s per week. The timing function will be retained through periods of mains supply failure or interruption for up to 7 days.