

110V LED Emergency Maintained Bulkhead Installation Instructions P.1

For models: 110AC50LED



This installation must be carried out by an electrician.

Please read these instructions carefully before installation.

Leave a copy for the user/maintenance engineer for future reference.

Specification

110V LED Emergency Maintained Bulkhead

110V 50/60Hz

0.4 Power Factor

4.5W

8pcs of 5730 LED

200 Lumen output (80lm in emergency mode)

Ni-Cd SC3.6V800mAH Battery

24 Hours charging time

- Before commencing installation or maintenance, ensure electricity is switched off at the mains.
- The nearest illuminated surface must be at least 0.5m from the front of the fitting

Installation Instructions

- Ensure the mains supply is switched off.
- Ensure there is at least 100mm of free space around the luminaire.
- Check for buried cables before drilling fixing holes.
- Remove the diffuser from the body by loosening the two retaining screws.
- Release the gear tray by easing plastic clips away from the metal tray and lifting the metal tray away from the base.
- Fix base to wall or ceiling either direct or via conduit box having made an access hole in the body for the cable.
- Isolate at A.C. supply and connect the unit. An unswitched 110V A.C. supply must be connected to the live (L), earth and neutral (N) terminals on the PCB of maintained and non-maintained versions. On maintained fittings, continuous illumination is provided by the white link cable already connected; this can be replaced by a simple switch for on/off control.
- Plug battery lead into connector on PCB
- Refit the gear tray into the base making sure the plastic clips secure the gear tray correctly.
- Refit diffuser and press each of the 4 'lugs' to ensure they are fully located.
- Check operation, restore the A.C. supply, check the green LED indicator is on, leave for 30 minutes, remove power. The lamp should illuminate for a few seconds.
- Restore the A.C. supply and check that the green indicator LED is on.

Important User Information

- Always switch off mains supply before servicing, fitting or changing lamp.
- DO NOT allow failing lamps to flicker as this will result in excessive heat build-up in the lamps and control gear.
- Allow the lamp and fitting to cool before replacing lamp.
- Check that the correct lamp type and wattage is fitted.
- This product contains high frequency ballasts – DO NOT MEGA TEST

Important Installation Information

- Installation should be carried out in accordance with the latest edition of the I.E.E. wiring regulations (BS7671) and taking into consideration the latest Building Regulations. If in doubt, consult a qualified electrician.
- Ensure that ALL electrical connections are tight with no loose strands, including factory made connections.
- Input voltage – 110V 50HzAC
- Ensure there is adequate free air circulation of at least 100mm around the luminaire. All luminaires run hot. It is the installer's responsibility to consider fire risk and take appropriate precautions.



RoHS



CE

110V LED Emergency Maintained Bulkhead Installation Instructions P.2



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Testing

The emergency light must be tested and inspected regularly in accordance with local codes of practice.

Note: for safety reasons, tests should be carried out during daylight hours.

The minimum recommended test schedule is as follows:

After installation, allow 36 hours to ensure full battery charge, and then interrupt the supply; check after 3 hours that the tube is still lighting.

1. Daily - Check that the charge indicator LED is working.
2. Monthly – interrupt the power supply for a short period and check the lamp remains illuminated.
3. Six-monthly – interrupt the power supply and check the lamp remains illuminated after 1 hour.
4. At the end of 3rd year, and annually thereafter – check 3 hour duration: batteries must be replaced when they can no longer support 3 hour operation.
5. Complete record sheet on installation and retain in maintenance file.
6. Update file with on-going test records for inspection by fire officer or other duly authorised person.

Month	Test	Year 1		Year 2		Year 3		Year 4		Year 5	
		signed	date								
1	short										
2	short										
3	short										
4	short										
5	short										
6	1 hour										
7	short										
8	short										
9	short										
10	short										
11	short										
12	short							x	x	x	x
	3 hour	x	x	x	x	x	x				

110V LED Emergency Maintained Bulkhead Installation Instructions P.3



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Operation

Non-Maintained

• The lamp is normally off and battery on automatic charge (green LED on) when the A.C. supply is healthy. Solid state circuitry automatically switches the lamp on when the A.C. supply is interrupted.

Maintained

• The lamp is normally on when the supply to the switched live is on. The battery is on automatic charge (green LED on). Lamp will switch on or remain on if A.C. supply is interrupted.

Monitoring

• The green LED indicator lamp will be on continuously. It will go out if A.C. supply or charger fails.

Fault Finding and Corrective Action

- Green LED indicator not illuminated: A.C. supply is not connected or battery not connected or the charger has failed.
- Unit is not meeting the required emergency duration: The fitting may need cycling. Discharge then recharge for full 24 hours. Restest. The battery may need replacing if emergency duration is still not achieved.
- Lamp not fully illuminated: If tube ends are blackened, replace tube. If lamp flickers and illumination is low, either the battery pack or (less likely) the PCB needs replacing.

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.

1. Switch off the electricity at the mains.
2. Allow batteries to fully discharge then reconnect to supply and allow to charge for 24 hours.
3. Test again for 3 hours, if light does not remain lit change the battery pack as follows:
4. Remove the diffuser
5. Remove the two screws on the gear tray and open the gear tray.
6. Unplug the battery lead from the circuit board.
7. Pull the battery lead from the circuit board.
8. Write current date on the battery pack.
9. Fit new battery pack into circuit board.
10. Plug battery back 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.

Guarantee

This product is guaranteed for a period of 1 year from the date of purchase. The guarantee is invalid in the case of improper use, tampering, removal of the Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations (BS7671). The guarantee is also invalidated if the luminaire has been Mega tested. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product. reserve the right to alterspecifications without prior notice.