

LED Emergency Bulkhead Maintained / Non-maintained c/w Legend Installation Instructions P.1



For model: LFACLED-1

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

- LED Emergency Bulkhead Maintained / non-maintained c/w Legend
- 220-240V
- Class I (must be earthed)
- 4W LED
- 8pcs of 5730 LED
- 200 Lumen output
- 4000K Colour temp.
- 3 Hours emergency duration
- 24 Hours charging time
- 5 Year life expectancy

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.

IMPORTANT: Ensure that ALL electrical connections are tight with no loose strands, including factory made connections.

- Input voltage – 240v 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.
- 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.
- Allow the fitting to cool before servicing.

Installation Instructions

1. Ensure the mains supply is off
 2. Ensure there is at least 100mm of free space around the luminaire
 3. Check for concealed cables before drilling fixing holes
 4. Remove the diffuser from the body by easing each of the 4 lugs off the body clips using a 5mm flat blade screwdriver
 5. Release the gear tray by easing plastic clips away from the metal tray and lifting the tray away from the base
 6. Using the fittings as a template, mark the position of the fixing holes on your mounting surface
 7. Thread the supply cable through an entry point and into the fitting
 8. Make connections to the mains supply according to the following this wiring colour coding
Live - Brown or Red
Neutral - Blue or Black
Earth - Green and Yellow
- Normally the supply will be taken from the lighting circuit and the permanent live connected to the live terminal in the fitting.
9. Write the current date on the battery pack
 10. Connect the battery pack to the circuit board
 11. To operate the fitting in non-maintained mode, remove the link from the terminals 'SW'
 12. If the lamp is to be switched, remove the link from the terminals marked 'SW' and connect the cables to and from your switch
 13. Refit the gear tray into the base making sure that the two clips capture it correctly
 14. Refit the diffuser and press each of the 4 lugs to ensure they are fully located.

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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	signed	date	signed	date	signed	date	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				

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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. Retest. The battery may need replacing if emergency duration is still not achieved.

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 charging 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 from the body by easing each of the 4 lugs off the body using a 5mm flat screwdriver
5. Release the gear tray by easing plastic clips away from the metal tray and lifting the tray away from the base
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. Refit the gear tray into the base making sure the two plastic clips capture it correctly
12. Refit the diffuser and press each of the 4 lugs to ensure they are fully located
13. Restore power and allow charging for 24 hours
14. Perform full operation check and update test record



RoHS



CE

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. If a PIR is used in conjunction with any Red Arrow lighting product we do not accept any responsibility for premature failure of lamps or control gear. Your statutory rights are not affected. We reserve the right to alterspecifications without prior notice.