

# INSTALLATION & SAFETY INSTRUCTIONS

## LKBH3-1A



### 3W Slim LED Emergency Bulkhead

Please read these instructions and retain them for future reference.

#### Important information:

It is recommended that this fitting is installed by a qualified electrician ensuring the installation complies with current IEE wiring regulations & local building control.

- This product is designed for connection to a 220-240V mains supply.
- Only mount on level and stable surfaces.
- We cannot accept responsibility for any claims arising from a poor installation.
- Always switch off mains supply before installation.
- The light fitting is Class II and does not require an earth connection.

#### General safety instructions:

- To clean: Ensure that the fitting is disconnected from the mains and cannot be unintentionally reconnected.
- Do not use in areas in which there is a danger of explosion.
- Do not use near flammable materials.
- Do not place in water or other liquids.
- Never operate with wet hands.
- Never cover the equipment.
- Never operate when the casing is open, or when the wiring casing is missing or damaged, or when the protective screen is defective.
- Never spray this unit, and never attempt to clean it with a steam pressure cleaner as this can damage the insulation and seals.
- Never attempt to repair this unit yourself. Repairs should only be carried out by a qualified electrician.
- If the supply cable is damaged, stop using the unit immediately & consult a qualified electrician.
- If diffuser is broken, stop using the unit immediately & consult a qualified electrician.

#### Testing Instructions:

- Emergency light fittings must be inspected and tested regularly in accordance with local codes of practice. For safety reasons, tests should be carried out during daylight hours.
- The minimum recommended test schedule is as follows:  
After installation, allow minimum 24 hours to ensure full battery charge. Then interrupt the supply and check after 3 hours that the fitting is still illuminated.
  1. Daily check that the charge indicator LED is working
  2. Every month, interrupt mains for a short period and check that fitting lights
  3. Six-monthly, check 1 hour duration
  4. At the end of year 3 and subsequently every year, check 3 hour duration: batteries must be replaced when they can no longer support 3 hour duration
  5. Complete the record sheet on installation and retain in a maintenance file
  6. Update the file with ongoing test records for inspection by a fire officer or other duly authorised person

INSTALLER:		LOCATION:				INSTALLATION DATE:					
Month	Test	1st Year		2nd Year		3rd Year		4th Year		5th Year	
		signed	date	signed	date	signed	date	signed	date	signed	date
1	short										
2	short										
3	short										
4	short										
5	short										
6	short										
7	short										
8	short										
9	short										
10	short										
11	1hr										
12	3hr										

#### Cleaning:

Before cleaning the fitting, disconnect the power cable and allow the fitting to cool down sufficiently. Clean with a dry or slightly moist, clean, lint-free cloth and a mild detergent if required. Do not use cleaners that contain abrasives or solvents.

#### Maintenance:

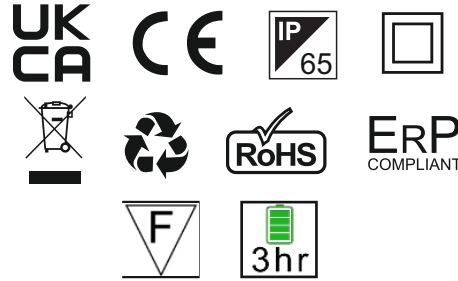
- Check power cable and housing of the fitting for damage before use. If the diffuser is damaged, unit must be replaced immediately.
- Clean any dirt from the housing or the diffuser immediately, it could potentially cause overheating.

#### Correct Disposal of this product:

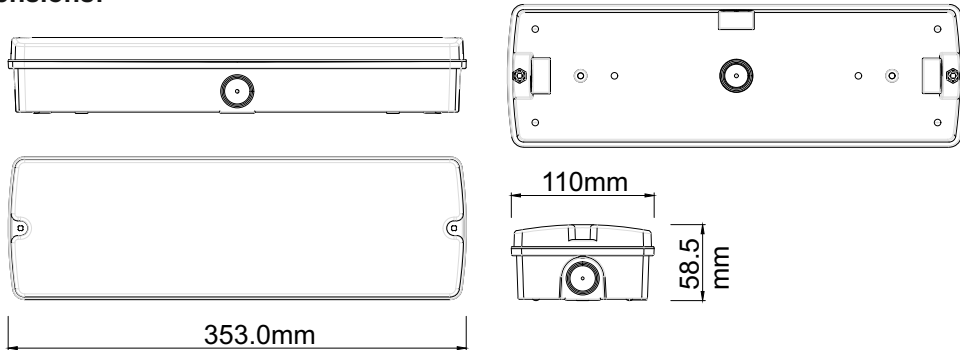
This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.



LKBH3-1A	
Wattage	3W
Lumens	170 lm (mains) / 120lm (battery)
LED Colour Temp	6000K
Beam Angle	120°
Voltage	220-240V AC 50Hz
Operating Temp	-20°C to +40°C
IP Rating	IP65
IK Rating	IK10
Battery run time	>3 hours runtime on mains failure
Battery Spec.	NiCd 3.6V 800mAh
Construction	White Polycarbonate
H x W x D	110 x 350 x 70mm
Warranty	5 years (excluding battery)
Protection Class	Class II



### Dimensions:



### Recommendations:

- Installation should be carried out in accordance with the latest IEE (BS7671) Regulations & the latest Buildings Regulations. Please consult a qualified electrician.
- Guidance on the installation of Emergency lighting in the UK is available from the BSI, regulation: BS 5266-1:2016.
- This unit is Class II rated and does not require an earth connection. A loop through earth terminal is provided if required.
- Not suitable for use with dimmers.
- The fitting is suitable for use in ambient temperatures of -20 to +40 degrees C. If the fitting is installed in locations where the temperature may vary beyond these temperatures or reach these limits for prolonged periods, the battery life may be shortened and should be tested more regularly.
- This fitting can be used indoors and outdoors.
- High voltage insulation test equipment must not be used on this fitting and may cause irreparable damage.
- It is recommended that 100mm of air space is left around the unit.
- This unit has no replaceable parts.
- The battery must be charged for 24 hours before the fitting can be commissioned.

### Installation Instructions:

1. Ensure the electrical supply is switched OFF before working on this fitting.
  2. A key switch or other suitable security switch should be installed to simulate a power failure to the fitting for monthly testing.
  3. Release the front cover by unscrewing the cover screws. To release the gear tray, push the tabs protruding through. The gear tray hangs on hinges for convenient fitting and wiring.
  4. Choose a suitable cable entry point on either side of the fitting. Using a hole saw, drill out the required knockout.
  5. Insert the supplied grommet in the cable entry hole to stop cables being frayed. Alternatively, 20mm conduit or a compression gland can be used in these knockouts.
  6. Drill out the 2 screw holes in the indicated positions in the base of the fitting.
  7. Mark mounting holes on the ceiling, using the fitting as a template. Drill out 5mm holes and insert the supplied wall plugs or suitable plasterboard plugs if in a plasterboard ceiling.
  8. Screw the fitting to the ceiling.
  9. Feed the supply cable into the fitting.
  10. Connect the 2 PIN connector from the battery to the circuit board.
  11. Mark the battery with the commissioning date with a permanent marker.
  12. Strip the wires and connect as follows:
13. **Non-Maintained Operation:** The fitting is supplied from a Permanent Live & N only to charge the battery. The light remains off until mains power is lost, when it will fail over to the battery for at least 3 hours. A green LED illuminates on the LED board to indicate the battery is charging. (fig.1)
  14. **Maintained Operation - Unswitched:** The fitting is permanently on. Connect the brown, live conductor the Permanent Live and insert the supplied loop between L and L1. If mains power is lost, it will fail over to the battery for at least 3 hours. A green LED illuminates on the LED board to indicate the battery is charging. (fig.2)
  15. **Maintained Operation - Switched:** In switched operation, a 240V switch feed can be installed to the Switched Live. Connect the brown, live conductor to L and the switch line to L1. If mains power is lost, it will fail over to the battery for at least 3 hours. A green LED illuminates on the LED board to indicate the battery is charging. (fig.3)

fig 1

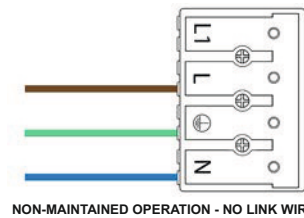


fig 2

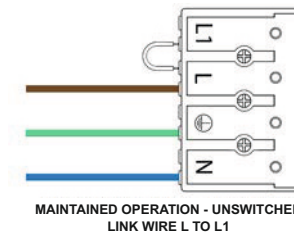
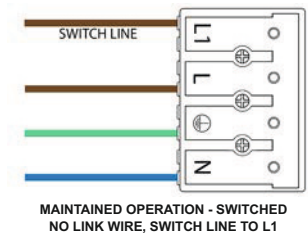


fig 3



16. Please ensure the fitting is disconnected when carrying out insulation resistance testing at voltages above 250V.
17. Replace the cover.
18. Switch on the power supply and check the green battery charge indicator inside the diffuser illuminates.
19. When first installed, allow 24 hours minimum to obtain full battery charge.
20. After the charging period, disconnect the mains supply to ensure that the fitting illuminates in emergency mode for at least 3 hours.



#### WARNING:

This luminaire MUST be disconnected before it is installed, subjected to any high voltage or subjected to insulation resistance testing. Otherwise irreparable damage may occur to the internal components.