

Installation Instructions: Emergency Bulkhead DALI (09152)

Important Information

We recommend that luminaires are installed by a qualified electrician ensuring the installation complies with current IEE wiring regulations & local building control.

- On emergency fittings, all tests should be carried out in accordance with current emergency lighting regulations.
- BELL Lighting will not accept responsibility for any claims arising from poor installation.
- The operating temperature should be between 0°C and 35°C for emergency fittings.
- Do not cover with insulation. Ensure that there is adequate free air ventilation around the fitting.
- Always switch off mains supply before installing.
- Upgrading of MCB may be necessary.
- Mount to a stable, secure surface that is rated for the weight of the luminaire.
- Not suitable for ATEX hazardous zones (explosive atmospheres).
- Not intended for use by children.
- Indoor use only, not suitable for outdoor use.
- Only use battery as supplied.
- Ensure the battery is fully inserted before use.
- Allow the battery to fully charge for 24 hours before performing the initial discharge test.
- If the lighting fails within 3 hours of an emergency discharge test, the battery is to be replaced. Contact your local distributor for a suitable replacement.
- The light source of this luminaire is not replaceable, when the light source reaches end of life, the whole luminaire must be replaced.

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.

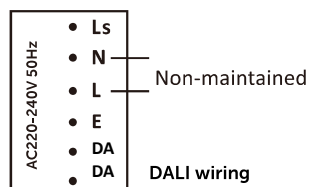


Read these instructions before installation and retain for future reference

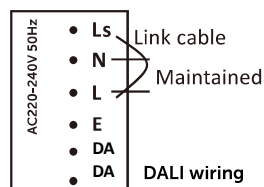
This equipment should be installed by a competent electrician

Installation:

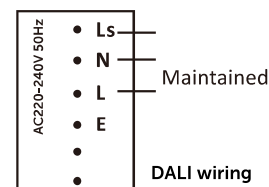
1. Connect mains supply wiring as follows L(Live) N(Neutral)



(Non-maintained operation)

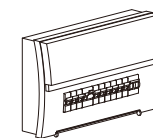
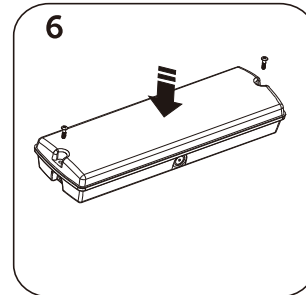
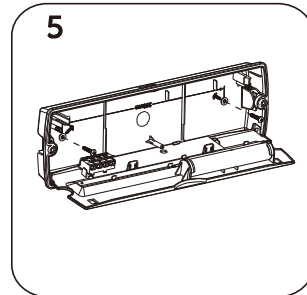
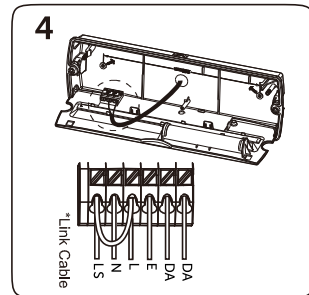
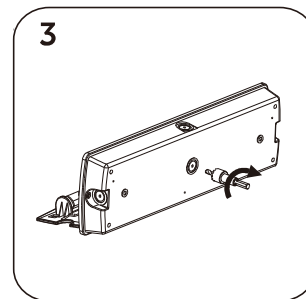
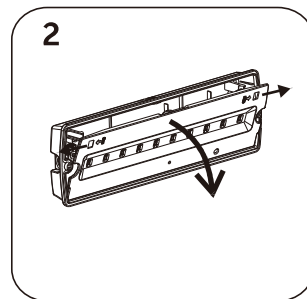
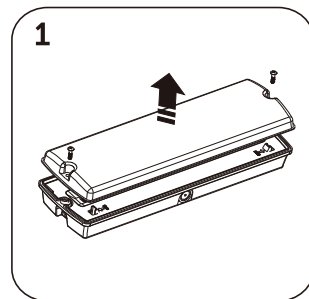


(Maintained operation)



(Switchable maintained operation)

2. Power line & battery wires should be connected securely, and all screws fixed.
3. Switch on 220-240V AC supply and check if the green LED indicator illuminates to confirm charging of batteries.
4. Allow a short period for part charging of the batteries and then isolate the mains supply to the fitting in order to check the correct operation of the fitting in emergency mode. In the first use, after a continuous charge for 24 hours, a mains failure should be simulated to ensure that the fitting works for its specified time (only at a safe & appropriate time). The fitting will be fully charged with 24 hours continuous charging.



**Turn Off
Power Supply**

RECOMMENDED ROUTINE TEST PROCEDURE

The following test are designed to ensure the continued protection of your premises and occupants. Because of the possibility of a failure of the normal lighting supply occurring shortly after a period of testing, all tests should, whenever possible, be undertaken at times of least risk, e.g. during daylight hours.

ONCE A DAY

Visual inspection of battery charge led.

ONCE A MONTH

Each unit should be energised from its battery for adequate time to ensure, by simulation of a failure of the normal lighting supply, the emergency mode is functioning correctly.

ONCE EACH YEAR

All units should be placed into emergency mode and checked that the duration provided by the battery meets the specified time period.

Specification

1. Maximum Ambient Temperature : 35°C
2. Operating relative humidity: less than 90%.
3. Rated voltage: 220-240V 50/60Hz.
4. Wattage: 3.3W.
5. Conversion time: 1 second.
6. LED:SMT 2835 LED*8pcs.
7. Lumens: 140lm.
8. Emergency duration: more than 180 minutes.
9. Battery: LiFePO4 3.2V 1800mah
10. Recharge time: 24 hours.



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DALI/SELF-TEST LUMINAIRES ONLY

The luminaire will adopt a self-test (automatic test) mode if it is not connected to a DALI bus, or the DALI communication is missing. On completion of the self-commissioning check, the self-test program starts with the first function and duration tests being carried out after randomly generated delay times which will occur as shown below.

Delay time to initial function test randomly generated value between 0 and 7 days

Delay time to initial duration test randomly generated value between 4 and 52 weeks

Subsequent function and duration tests occur after the test interval settings as follows:

Function test interval 7 days . Duration test interval 52 weeks

DALI/Self-test luminaires will respond to DALI commands from a suitable control unit, and these commands can be used to initiate function and duration tests at prescribed times. The status flags for the luminaire are set after a test, for reporting and logging of the results.

DALI /Self-test luminaire local bi-colour LED indicator status

Green LED	Permanently on	System OK/mains operation mode
	Slow flash	Duration test/commissioning
	Fast flash	Function test
Red LED	Permanently on	LED luminaire fault
	Slow flash	Battery/test failure
	Fast flash	Battery charging failure

Slow flash – a flash every 1 second, Fast flash – a flash every 0.25 second

A test switch is applied which can be used to:

Operation	Function
Press 200ms-1s	Initiate a 5S seconds function test
Press 3-10S	Initiate a duration test Note: This duration test can only be conducted when the battery is charged full. The duration test can be stopped by DALI controller if need.

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Testing & Commissioning for Emergency Luminaire

- Ensure the Load is connected.
- Connect the battery.
- Switch on the Unswitched Supply - Check the Charge LED illuminates.
- Switch on the Maintained Supply - Check the LED illuminates as normal.
- Switch off the Maintained Supply.
- Switch off the Unswitched Supply - Check the Charge LED extinguishes and the load LED illuminates at a reduced output.
- Enter the commissioning date on the Battery Pack. Switch on the Unswitched Supply

Luminaire Ref/Location			In Case of difficulty, contact the Installation Engineers:- Tel: _____									
Full Recharge Time 24 Hours			Duration 3 Hours				Lamp Type - LED					
ROUTINE TEST RECORD												
Monthly Test	Year 1		Year 2		Year 3		Year 4		Year 5			
	Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date		
Functional												
Functional												
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Three Hour												