Installation Instructions: DALI Addressable Emergency Pack for Panels
Code: 09156

Date	Revision
23.06.26	2

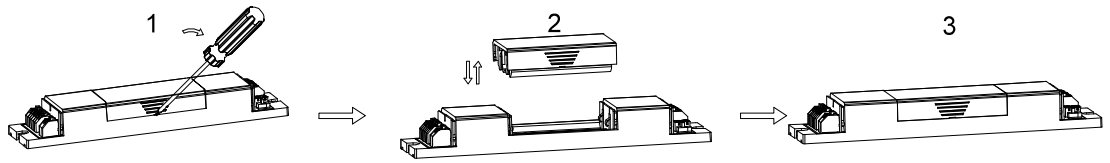
Read these instructions before installation and retain for future reference.
This equipment should be installed by a competent electrician

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.
- Always switch off mains supply before installing.
- Upgrading of MCB may be necessary.
- Not suitable for ATEX hazardous zones (explosive atmospheres).
- Not intended for use by children.
- Indoor use only, not suitable for outdoor use.
- Ony 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.

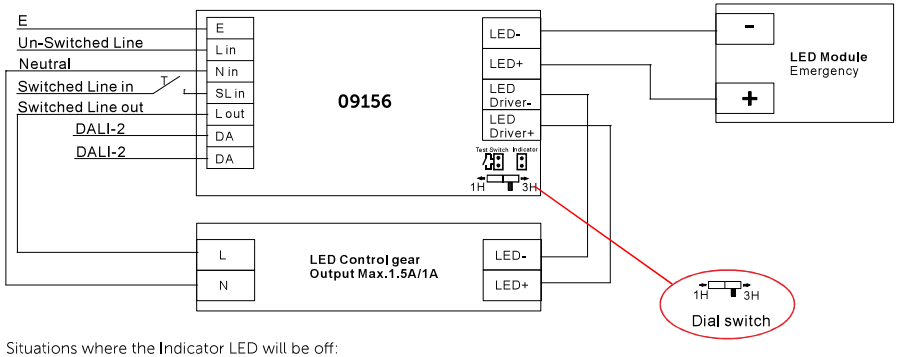
This product may contain substances that can be hazardous to the environment if not disposed of properly. Electrical and electronic equipment should never be disposed of with general household waste but must be separated for its correct treatment and recovery. Where possible recycle your packaging.



Battery Replacement

Step 1: As shown in the diagram, insert a screwdriver into the hole and rotate to pry the battery box loose.
Step 2: Take out the battery cartridge to be replaced upwards.
Step 3: Snap the new battery cartridge down to complete the battery cartridge installation.

Wiring Diagram

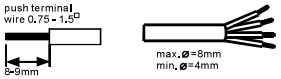


- Rated Supply Voltage:220-240VAC
- Mains frequency 50/60Hz
- Ambient Temperature: 0-35°C
- Maximum Casing Temperature: 70°C

Situations where the Indicator LED will be off:
1. Mains power is OFF, luminaire goes into emergency mode.
2. Battery is disconnected when mains power is ON.
3. Battery is re-connected whilst mains power is ON.
(In this case, the AC mains power must be re-set).

Please note:
With SLin connected, the luminaire is in MAINTAINED mode.
With SLin disconnected, the luminaire is in NON-MAINTAINED mode.

Requirements for wires:
Wire diameter: 0.75 – 1.5mm2
Stripped back: 8 – 9mm



Function switching:



1. Emergency operation test type can be changed using the switch as shown.
2. Push the switch to the left (1H) if standard (manual) test function is required.
3. Push the switch to the right (3H) for self-test functionality.
4. Ensure desired switch position is selected before connection of the battery and the mains supply.

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Testing

DALI Control:
A DALI command from a suitable control unit can be used to initiate function and duration tests at individually selected times. Status flags are set for report back and data logging of results.
When a DALI bus has not been connected or when a DALI bus is connected but the DALI default DELAY and INTERVAL times have not been re-set by sending appropriate DALI commands, then the 09156 will conduct self-tests in accordance with the default times
These default times are factory pre-set, in accordance with the DALI standard EN 62386-202, to conduct an automatic function test every 7 days and a duration test every 52 weeks. Since the DELAY time is factory pre-set to Zero, all units are tested at the same time. Test times can be changed with a command over the DALI bus.
The DELAY and INTERVAL time values must be re-set when the emergency system test times are to be scheduled by a DALI control and monitoring system.
Note that once the default values have been set to Zero, tests will only be conducted following a command from the control system. If the DALI bus is disconnected the 09156 does not revert to self-testing mode.

Addressing:
For single handed addressing using this method it is necessary to send a broadcast ident command every 3 to 9 seconds. During this command the LEDs will be switched off and the indication LED will flash the 6 bit binary address preceded by a 3 second start indication period.

Rest Mode / Inhibit Mode:
Emergency operation is automatically started when the mains supply is switched off.
If the Rest Mode is activated, the discharging of the battery will be minimized by switching off the LED output.
If the Inhibit Mode has been activated before the mains supply is switched off, Rest Mode will be automatically switched on if the mains supply is switched off within 15 minutes. REST Mode and Inhibit Mode can be initiated by the DALI controller. The REST command has to be sent after the mains supply has been disconnected and whilst the 09156 is in emergency operation. The inhibit command has to be sent while the 09156 is supplied by mains.
After a mains reset the 09156 exits the Rest Mode.Rest Mode and Inhibit Mode can both be disabled by sending the RE-LIGHT/RESET inhibit command.

Indicator LED System status is locally by a bi-color indicator LED.

LED Indication	Status	Description
Permanent Green	Standby ,System OK	Mains Operation, battery is charged
Fast flashing Green (0.25s on 0.25s off)	Function test underway	Function test underway
Slow flashing Green (1s on 1s off)	Duration test underway	Duration test underway
Permanent Red	Lamp failure	Open Circuit or Short circuit or LED failure
Fast flashing Red (0.25s on 0.25s off)	Battery capacity failure	Battery failed duration test
Slow flashing Red (1s on 1s off)	Battery fault	Incorrect battery voltage or Short circuit or Open Circuit
Green and Red off	Battery Operation	Emergency mode:Mains disconnected or Mains failure
Slow flashing Red (1s on 3s off)	Battery temperture error	When power on and battery temperature is above 60(±2)℃ or below 0(+2) ℃

Notice:
Fault status:
If an error is detected, the indicator LED will switch to RED. If the error has been corrected, after re-connecting the battery after the mains power off, the indicator LED immediately will switch back to GREEN when mains power is re-applied.
Battery failed duration test:
After an exchange of the battery and holding down the button (>10s) reset the timer, the indicator LED will switch to GREEN.
If the battery temperature is above 60(±2°C) or below 0(+2°C) the battery will stop charging.

Notice 1:
After the first power-on, continuous charging for 24 hours to enter the first inspection, if additional operations are carried out during the continuous charging process, the time of entering the first inspection will be deviated.

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