Installation & Wiring Instructions
CE1R/M and CE1R/DA

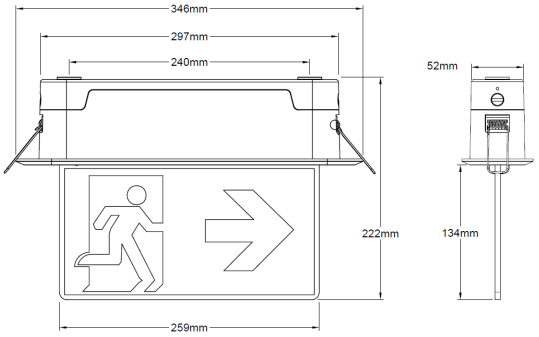
Liteplan emergency lighting

PLEASE READ THESE INSTRUCTIONS BEFORE COMMENCING INSTALLATION & LEAVE WITH END USER

Description:

The CE1R is a compact, architectural blade exit sign. The CE1R is designed to be recessed into the ceiling as shown overleaf.
The battery is a 3.2V 3.8Ah lithium iron phosphate (LiFePO4).
The LEDs are driven at 700mA and provide suitable legend illumination for 3 hours.
The control gear that powers the CE1R/DA operates the DALI-2 protocol.

The unit will recharge the batteries after the test of clause 22.3 of BS EN 61347-2-7:2012.
The product features battery temperature protection in accordance with IEC 61347-2-7: 2012+A12:2022.



Part Codes

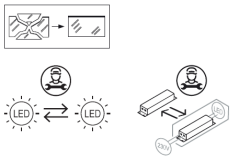
CE1R/M/**	Maintained/Non-maintained basic emergency
CE1R/DA/**	Maintained/Non-maintained DALI-2 self-test
CE1R/LMEM/**	Maintained/Non-maintained Wireless self-test

** Denotes arrow direction required. AU for arrow up, AD for arrow down and ALAR for arrow left/arrow right

Specification:

Input Voltage	230-240 Volts AC 50/60 Hz
Power Standard Charging *	5.7W 34mA λ = 0.71
Power Standard Charged *	0.2W 11mA λ = 0.07
Power DALI Charging *	5.4W 30mA λ = 0.75
Power DALI Charged *	0.3W 8mA λ = 0.15
Duration	3-hours
Min. Battery Temperature	0°C
Max. Battery Temperature	55°C
Ta	5°C to 25°C
Battery Fuse	Internal
Discharge Current	900mA nominal
Discharge Voltage Cut-off	2.5V
Ingress Protection	IP40
Battery Pack	3.2V 3.8Ah LiFePO4
Charge Current	225mA nominal
Recharge Period	24-Hours
Overall Weight	0.82Kg

* LiFePO4 control gear will initially charge the battery and then spend 90% of its operational life in a 'Charged' or standby state.



The light source and control gear in this luminaire shall only be replaced by the original manufacturer, service agent or a similarly qualified person.

Important

It is recommended that the unit is installed by a competent person ensuring the installation complies with the necessary standards. Liteplan accept no responsibility for injury, damage or loss, which may arise as a result of incorrect installation, operation or maintenance.

The product requires an un-switched supply for charging the battery..

ISOLATE MAINS SUPPLY AND DISCONNECT THE BATTERY BEFORE INSTALLATION OR MAINTENANCE.

Installation:

1. Cut power to the area via the breaker.
2. Remove the gear tray from the housing.
3. Install the mains cables and, where required, the DALI bus cables as shown overleaf.
4. Once permanent power is assured, connect the battery connectors and the connector(s) from the mains/DALI terminal block(s) to the gear tray.
5. Fit the light source to the body of the CE1R tightening the two screws as shown overleaf.
6. Click the body to the first fix part.
7. Fit the legend panel to the body, ensuring that the charge LED meets its viewing hole. This should follow the guidance of BS-5266
8. Install the CE1R to the ceiling as shown overleaf.
9. Reinstate power to the fitting.
10. See Testing and Commissioning section.

The battery within this luminaire is servicable and should be replced with the Liteplan part number 1/LP38/S/TE. This change should be carried out by a qualified professional.

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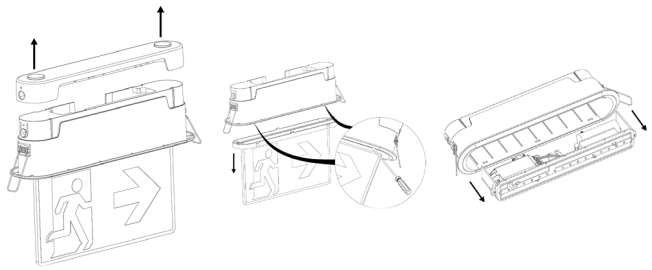
Litemesh LiFePO4 DALI 2 CE UK CA

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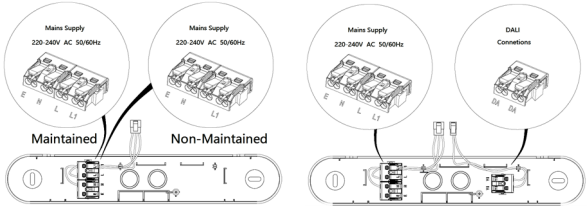
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Figure one



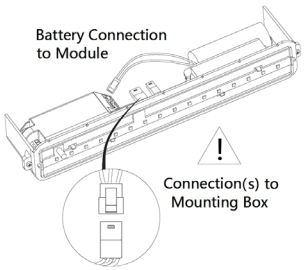
1- Take the fitting apart as shown in the above diagrams.

Figure two



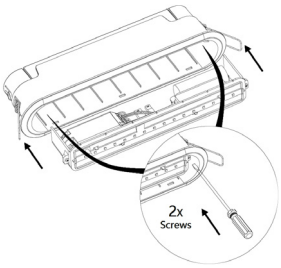
2 - Fit mains supply cables to the terminals as shown. Either maintained or non-maintianed operation. Connect DALI cables if required. (DALI versions only).

Figure three



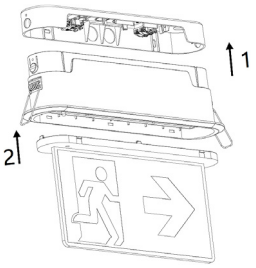
3 - Once mains supply is present, connect the 3-way battery cable connector together.

Figure four



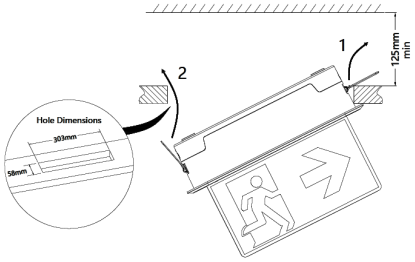
4 - Fit the gear tray back into the body, tightening the screws as shown.

Figure five



5 - Click the body back into the first fix section, ensuring the the connector(s) from the mains/DALI terminal blocks have been connected to the gear tray. Click the legend to the body ensuring it is the correct way round and oberving the position of the charge LED.

Figure six



6 - Install the assembled CE1R into the ceiling cutout. A minimum void depth of 125mm must be observed.

Testing/Commissioning:

- Ensure all connections are made, including the batterythe load is connected.
- Switch on the Un-switched Supply (L1) - Check the charge LED illuminates.
- Switch on the switched supply (L) - Check the central load illuminaites (maintained units only)
- Switch off the Un-switched Supply (L1) - Check the charge LED extinguishes and the central load LED illuminates.
- Switch on the Un-switched Supply (L1).

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