

## Emergency Module for LED Downlights

Please read these instructions thoroughly before use and retain for future reference.

The emergency module is only recommended for use with a selection of Kosnic LED downlights as specified on the downlight datasheets.

### Safety Information

- Installation must be carried out in accordance with national building and wiring regulations.
- If you are in any doubt about installing this product, please consult a qualified electrician.
- Before commencing installation or maintenance, turn off and isolate the circuit to be worked on by removing the fuse or switching the circuit breaker off at the distribution board.
- This product is suitable for connection to a 220-240Vac 50/60Hz supply.
- This product is a **Class II** product not requiring an Earth connection, but terminals are provided for continuity.
- This product is an **IP20 independent** driver that does not rely on the enclosure for protection.
- Do not use the emergency module if the cable is damaged.
- The emergency module is not suitable for use on a battery supply with a trickle or intermittent re-charging circuit.
- The emergency module is not protected against supply voltage polarity reversal.
- Insulation between the emergency module supply and battery circuit is double insulation.
- The recharging device will recharge the battery normally after removal of a battery short-circuit
- When cutting holes, drilling or screwing take care not to damage existing wiring or pipework.

### General Installation Information

- The emergency module (A) is supplied with two leads (B), with and without an earth wire.
- Select the appropriate lead for the class of luminaire, open the terminal cover on the emergency module and connect between the terminals at (C) and the terminals on the luminaire (D):

**Brown (L) – Live**

**Blue (N) – Neutral**

**Green/Yellow (⊕) – Earth**

- Replace the terminal cover on the emergency module.
- Connect the mains switched and unswitched supply to the terminals in the connector block (E) as follows:

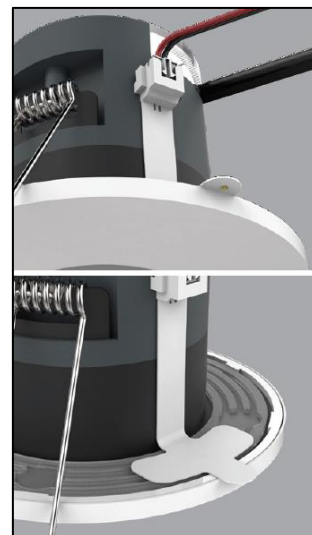
**Brown (L) – Switched Live for Normal Switching Operation**

**Black (L1) – Un-switched Live for Permanent Emergency Module Supply**

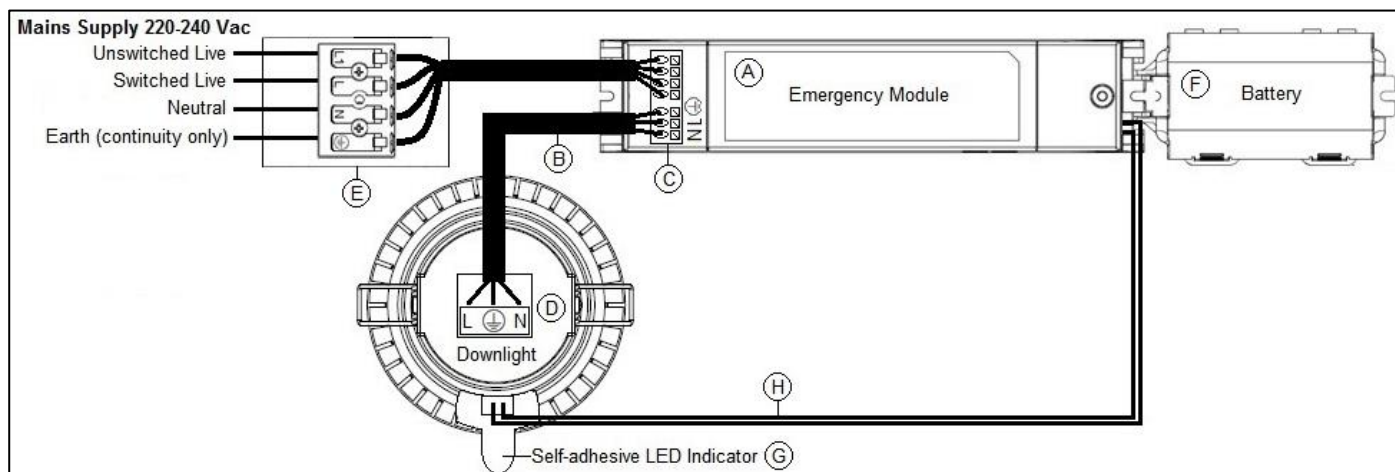
**Blue (N) – Neutral**

**Green/Yellow (⊕) – Earth**

- Secure the supply cables and close the cover on the connector block (E).
- Open the cover on the battery pack (F) and write the commissioning date on the battery label.
- Connect the battery pack (F) lead to the emergency module (A) connector lead.
- Stick the Maintained or Non-Maintained emergency luminaire label on the luminaire as appropriate.
- The emergency module is supplied with a self-adhesive LED indicator (G), shown opposite, which can be stuck to the back of the downlight bezel such that it can be seen at the edge of the bezel when installed.
- Connect the indicator lead (H) between the self-adhesive LED indicator (G) and the emergency module (A).
- Install as necessary and reconnect the power.
- The battery leaves the factory in a charged state but may take up to 24 hours to fully charge for a 3-hour test. Charge for 5 minutes before performing a functional test to ensure there is some charge in the battery.



### Installation Diagram





## Replacing the Battery Pack

- Write the commissioning date on the new battery label.
- Disconnect the battery pack (F) lead from the emergency module (A), open the battery pack and replace the battery within.
- Connect the battery pack (F) lead to the emergency module (A) connector lead.
- The battery leaves the factory in a charged state but may take up to 24 hours to fully charge for a 3-hour test. Charge for 5 minutes before performing a functional test to ensure there is some charge in the battery.

Product Code	CEL03LIC/N
Input Voltage	220-240 Vac 50-60 Hz
Input Current (max)	40 mA
Output Voltage	27-180 Vdc
Output Current	10-75 mA
Open Circuit Voltage	200 Vdc
Maximum Working Voltage	200 Vdc
Protection	IP20, Class II, Independent driver
Input to Battery Protection	Double Insulation
Battery	Li-Ion KBAT2200LI4
Battery Voltage	7.2 V
Battery Capacity	2200 mAh
Battery Charge Voltage	8.5 Vdc
Battery Charge Current	30-210 mA
Battery Discharge Voltage	6.0-8.4 Vdc
Battery Discharge Current	350-600 mA
Charging Time	24 h
Battery Life	4 Years
Emergency Conversion Time	1 s
Emergency Operation Time	>3 h
Test Function	Manual
Length x Width x Depth	273 x 46 x 25 mm
Maximum Case Temperature (°C)	75 °C
Ambient Temperature Range (°C)	0 to 45 °C



The Waste Electrical & Electronic Equipment Regulations (WEEE) requires that products bearing this symbol must not be disposed of with household waste as they may contain substances harmful to the environment. The Local Authority can provide advice on recycling.