

3W Universal Emergency Module (UEM03) for LED Luminaires

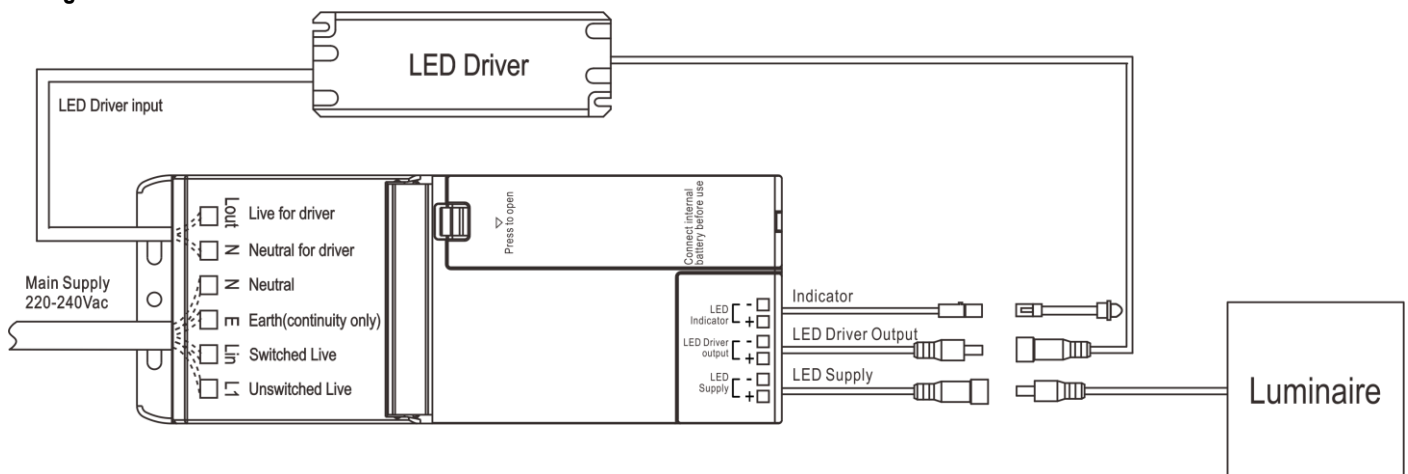
Please read these instructions thoroughly before use and retain for future reference.

- This is a stand-alone, self-contained emergency module requiring manual testing.
- The UEM is suitable for class III luminaires with integrated LEDs and separate LED drivers. The electrical specification is given below.
- Compatibility with luminaires should be verified before committing to an installation.

Safety Information

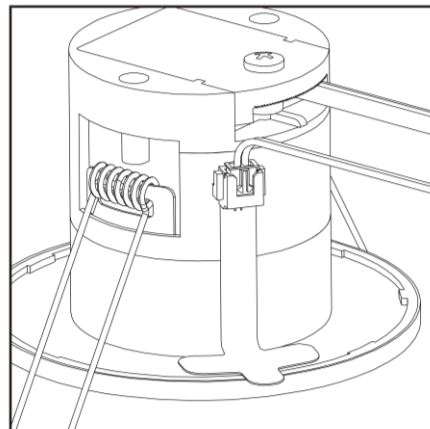
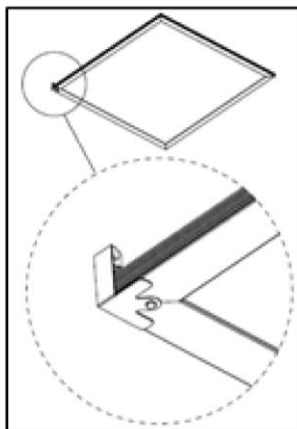
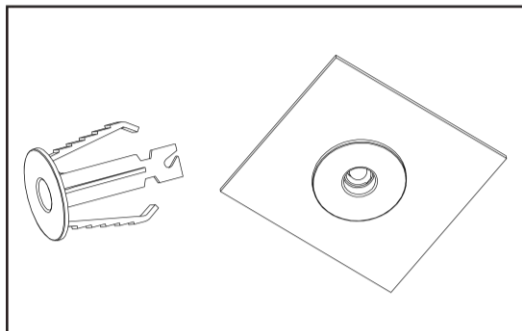
- Installation must be carried out in accordance with national building and wiring regulations.
- If you are in any doubt about installing this product, please consult a qualified electrician.
- The system should be designed and installed such that only authorised personnel can make changes.
- This product is suitable for connection to a 220-240Vac 50/60Hz supply.
- This is a **class II, independent** driver not requiring an earth and is **IP20** rated for indoor use.
- Do not use this emergency module if the cable is damaged.
- This emergency module is not suitable for use on a battery supply with a trickle or intermittent re-charging circuit.
- This emergency module is not protected against supply voltage polarity reversal.
- Insulation between supply and battery circuit is double insulation.
- The recharging device will recharge the battery normally after removal of a battery short-circuit

Wiring Schematic



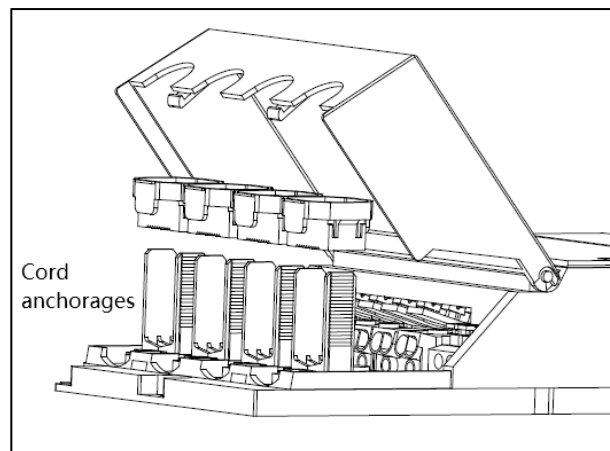
Installation Information

- The UEM provides power in the event of a cut in the supply and must be wired to the switched and unswitched supply. **There must be a permanent supply to the Unswitched Supply Live (L1) as well as the Switched Supply Live (Lin) for the luminaire to work in a normal maintained state.**
- Before commencing installation, turn off and isolate the circuit to be worked on by removing the fuse or switching the circuit breaker off at the distribution board.
- Connect the supply input and driver input to the UEM as follows:
Blue = Neutral for driver (N)
Brown = Live for driver (Lout)
Brown = Switched Live (Lin)
Blue = Neutral (N)
Green/Yellow: Optional Earth Continuity (E)
Brown = Un-Switched Live (L1)
- The UEM is supplied with two connected leads with DC jacks. These are to connect the **LED Driver Output** to the LED Driver Output terminals and to connect the **LED Luminaire Input** to the LED Supply terminals on the UEM. The lead polarity is **Red (+), Black (-)**.
- **It is critical that the connections and polarity for LED Driver Output and LED Supply are correctly identified and connected for the UEM to power the LED luminaire.**
- In cases where the connectors are not suitable, the wires from the LED Driver Output and the LED Luminaire Input may be connected directly into the terminals. The connections and polarity as shown above.
- There is a choice of shrouded or flat **LED indicators**. If used, the shroud requires a 20mm hole. The self-adhesive flat LED indicator may be stuck to a panel edge or the back of the downlight bezel such that it can be seen at the edge of the bezel when installed, as shown.



- Connect the **LED Indicator** to the LED Indicator terminals on the UEM.
- **Use cord anchorages supplied to secure the cables.**
- **The battery is supplied disconnected.** To connect or replace the battery, disconnect the UEM from the supply, open the central battery compartment cover on the UEM and connect the battery cable.
- Write the commissioning date on the battery label.
- Stick the Maintained or Non-Maintained emergency luminaire label on the luminaire where it can be seen.
- Ensure that all electrical connections are tight with no loose strands.
- Replace the battery compartment cover and reconnect the supply.
- 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.
- To fully test the emergency function, the un-switched supply will need to be switched off.
- Replace the battery when the luminaire fails to meet the 3-hour duration requirement in testing.

Product Code	UEM03
Input Voltage	220-240 Vac 50/60 Hz
Input Current (max)	24 mA
Battery Output Wattage (max)	3W
Output Voltage	24-54 Vdc
Output Current	40-95 mA
Open Circuit Voltage	60 Vdc
Maximum Working Voltage	60 Vdc
Protection	IP20, Class II, Independent Driver
Input to Output Protection	Double Insulation
Battery	BAT48LI1
Battery Voltage	3.6 V
Battery Capacity	4800 mAh
Battery Charge Voltage	5.0 Vdc
Battery Charge Current	30-370 mA
Battery Discharge Voltage	3.2-4.2 Vdc
Battery Discharge Current	800-1000 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	185 x 71 x 32 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.