

## Universal Emergency Module for LED Luminaires (3W)

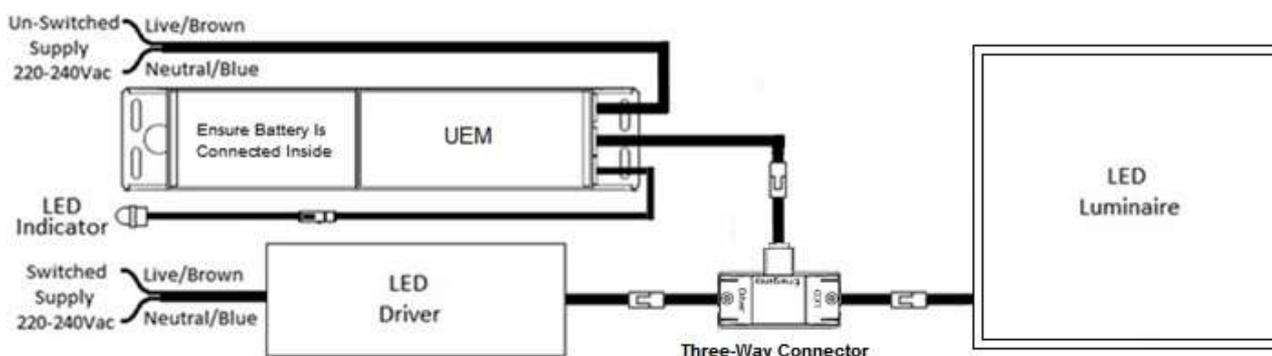
Please read these instructions thoroughly before use and retain for future reference.

The Universal Emergency Module (UEM) is suitable for class III luminaires with integrated LEDs and separate LED drivers. The UEM will adjust the DC voltage output within the UEM's limits to the level required to operate the luminaire and then adjust the current to limit the power to a maximum of 3W to ensure operation time of three hours. Compatibility with luminaires should be verified before committing to an installation.

### Safety Information

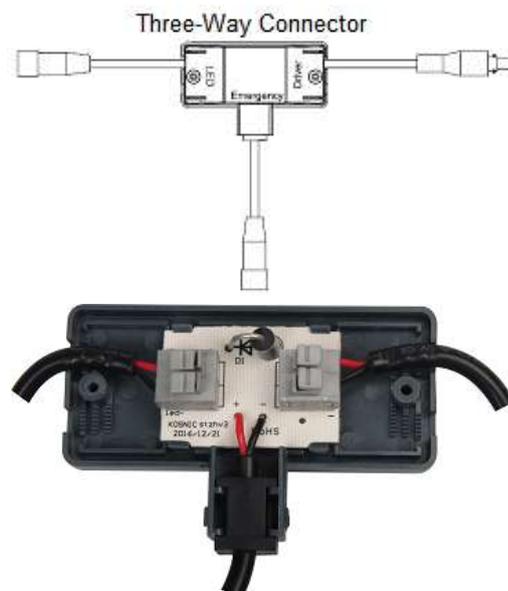
- Installation must be carried out in accordance with national building and wiring regulations.
- If you are in any doubt about installing this product, please consult a qualified electrician.
- This product is suitable for connection to a 220-240Vac 50/60Hz supply.
- This is a **class II, independent** driver and is **IP20** rated for indoor use.
- Do not use the UEM if the cable is damaged.
- The UEM is not suitable for use on a battery supply with a trickle or intermittent re-charging circuit.
- The UEM is not protected against supply voltage polarity reversal.
- Insulation between the UEM 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.

### Installation Diagram



### Installation Information

- The UEM provides power in the event of a cut in the supply and must be wired to the un-switched supply.
- 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 UEM input to the supply as follows:  
**Brown = Un-switched Live (L), Blue = Neutral (N).**
- The UEM is supplied with a Three-Way Connector with DC jacks for use with most Kosnic luminaires and some other luminaire brands. The connector contains a diode to prevent the UEM affecting the supply driver and has the connection marked on the cover.
- In cases where the connectors are not suitable or the polarity of the connectors is different, the Three-Way Connector should be opened and the fitted wires marked for the Driver and LED should be removed. The wires from the Driver and LED should then be connected directly into the terminals. The connections and polarity are marked on the cover.
- Amongst Kosnic luminaires the following colours/markings identify polarity:  
**Red, Grey or White Dashes = Positive (+)**  
**Black, White or White Letters = Negative (-)**
- **It is critical that the connections and polarity for Driver and LED are correctly identified and connected or the diode will prevent the UEM powering the LED luminaire.**
- Connect the UEM output with the flat connector to the green LED charging indicator. If used, the shroud requires a 20mm hole.
- **The battery is supplied disconnected.** To connect or replace the battery, disconnect the UEM from the supply, open the 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 12 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 test the emergency function both the switched and un-switched supply will need to be turned off.
- Replace the battery when the luminaire fails to meet the 3 hour duration requirement in testing.

<b>Product Code</b>	<b>CEW03LIL/N</b>
Input Voltage	220-240Vac 50-60Hz
Input Current (max)	35mA
Output Wattage (max)	3W
Output Voltage	9-58Vdc
Output Current	50-130mA
Open Circuit Voltage	60Vdc
Maximum Working Voltage	58Vdc
Protection	IP20, Class II, Independent Driver
Input to Output Protection	Double Insulation
Battery	Samsung Li-Ion KBAT2600
Battery Voltage	7.4V
Battery Capacity	2600mAh
Battery Charge Voltage	8.5Vdc
Battery Charge Current	30-210mA
Battery Discharge Voltage	6.0-8.4Vdc
Battery Discharge Current	600-700mA
Charging Time	12h
Battery Life	4 Years
Emergency Conversion Time	1s
Emergency Operation Time	>3h
Test Function	Manual
Length	230mm
Width	46mm
Depth	26mm
Maximum Case Temperature	75°C
Ambient Temperature Range	-10°C to 45°C

## Output Characteristics

Load Voltage	18V	23V	28V	33V	38V	43V	48V	53V	54V	55V	56V
Output Current	126mA	122mA	116mA	103mA	86mA	74mA	64mA	56mA	55mA	53mA	52mA
Output Wattage	2.3W	2.8W	3.2W	3.4W	3.3W	3.2W	3.1W	3W	3W	2.9W	2.9W



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.