

## INSTRUCTIONS MANUAL

### EMERGENCY LIGHTING KITS FOR CONSTANT CURRENT LED LUMINAIRES

Type: **emerLED**

These electronic emergency lighting units uses sensitive electronic components. It should be handled with the same care as a mobile phone. In order to achieve a long life and correct performance it is necessary to follow some guidelines in compliance with the manufacturer's recommendations.

#### PERFORMANCE CHARACTERISTICS

	emerLED 12-50V 3W 1h emerLED 30-220V 3W 1h	emerLED 12-50V 3W 3h emerLED 30-220V 3W 3h
Operating time	1 hour	3 hours
Battery	4,8 V 1,8 Ah NiCd	4,8 V 4,5 Ah NiCd
Mains voltage	230 + / -10%	
Frequency	50 / 60 Hz	
Ambient temperature	5 - 50 °C	
Charge time	48 hours	
Electrical protection	Class I	
Protection rating	IP 20	
Cable preparation	Section 0,5 - 1,5 mm <sup>2</sup> ( Bared 8 mm )	
According to	EN 61347-2-7	
Self-test according to	EN 62034	
Valid for installations	DIN 0108 / EN 50172	

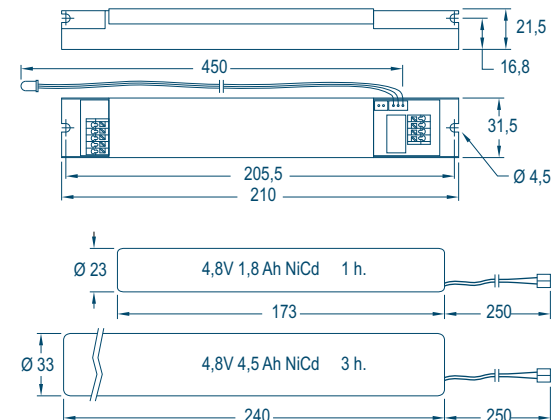
In case of mains failure emerLED emergency units are designed to check the 2 pins ± of the LED module. See eLED modules combinations listed in the ELT catalogue. Any other combination must be tested prior to installation.  
The maximum operating current in the LED module has to be lower than 2,5A.

Model	Operating voltages under normal conditions	LED module not connected or defective
emerLED 12-50V 3W 1h	min. 12Vdc / max. 50Vdc	max. 60V
emerLED 12-50V 3W 3h		
emerLED 30-220V 3W 1h	min. 30Vdc / max. 220Vdc	max. 250V
emerLED 30-220V 3W 3h		

More information on luminous flux in emergency operation is available on our catalogue.

#### MOUNTING

LED indicator and battery cables must not be tied to the rest of the mains and lamp cables.  
In order to accomplish EMC requirements is recommended to use as short as possible cables between the mains entrance and the lighting emergency unit.  
Do locate the battery in the coldest place of the installation. It must not exceed 50°C.  
Emergency lighting units must not be in contact with materials which might ignite, melt or otherwise alter at 60°C.  
Emergency lighting units must not be used in hazardous environments.



#### ELECTRICAL INSTALLATION

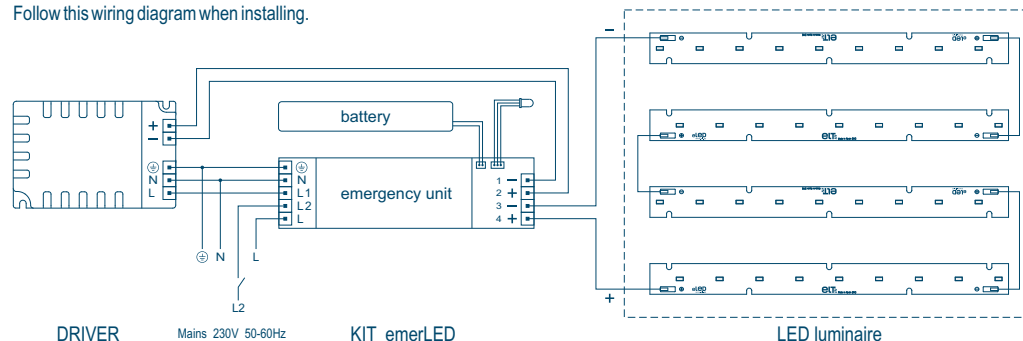
Emergency lighting units must be installed according to local regulations and standards applicable to electrical installations and emergency lighting.

The emergency lighting units and luminaires' installation must be done only by qualified experts.

Be sure that the mains voltage is 230 V ±10% and that earth connector is connected.

Batteries are delivered uncharged. For a functional test it could be enough a 10 minutes time of previous minimum charge. To obtain full performance it must be connected to the mains at least 48 hours.

Follow this wiring diagram when installing.



#### MAINTENANCE

Before proceeding to any maintenance the mains, first, and the battery, second, have to be disconnected from the emergency unit.

Batteries must be replaced if their operating time is lower that 10% of its capacity.

These emerLED kits include an automatic self-diagnosis at regular intervals. Every 8 days the correct performance of the module, the light and the battery is tested. Every 12 weeks the capacity of the batteries is tested simulating a mains failure and making a performance test. That is the reason why there's only need for a visual and periodical inspection of the LED indicator and of the installation.

LED indicator colour	Status	Situation
Green	On	Battery charged and correct functioning.
White	Off > 10 minutes	- Mains failure. - Mains below 160V.
Red	Intermittent flashing	- Battery discharged. - Defective emergency unit.
Red	Intermittent flashing	Defective LED module.
Red	Permanent flashing	Defective battery.