

## RECOMMENDED PERIODICAL MAINTENANCE

The lighting fitting should be tested on regular basis in accordance with valid laws and regulations. The results of the tests should be recorded and stored for the use of a fire safety inspector.

### One time daily

It has to be visually checked if the LED indicator in the lighting fitting lights up green.

### One time each month

It is necessary to disconnect the AC power supply for 30 seconds and check whether the lamp is operating in emergency mode - the green LED indicator turns off, and LEDs in the lamp light up.

### One time each year

Disconnect the AC power supply and test if the lamp operates in emergency mode for a specified time. If the time of emergency operation is not sufficient, the battery needs to be fully recharged and the test is to be carried out again. If the result of the test continues to be negative, the battery needs to be replaced.

### CAUTION!

All damage that may occur as a result of the device being used contrary to this instruction will result in loss of guarantee. **The guarantee shall not cover the light source and batteries.**

## Handling of obsolete equipment



Pursuant to the Act of 29 July 2005 on waste electrical and electronic equipment and the Act of 24 April 2009 on batteries and accumulators, the presented device, after use, due to hazardous substances contained in it, is subject to collection of waste electrical and electronic equipment. Detailed information on WEEE collection can be obtained from municipal authorities.



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## COSMIC LED EMERGENCY LIGHTING FITTING

Installation and maintenance instructions



TECHNICAL SPECIFICATIONS:	
Light source:	Daylight White LED 9W
Operating modes:	SA - mains and emergency operation A - emergency operation
Emergency operation duration:	2 hours
Battery:	Ni - Cd 2500 mAh / 3.6V
Battery charging duration:	24h
Power supply:	220 - 240V AC 50Hz
Enclosure IP rating:	IP 66



## INTRODUCTION

1. The lamp should be installed when power supply is off. Safety rules, construction and electrical installation standards should be observed at all times.
2. The lighting fitting should not be powered with circuits connected to inductive power-receiving devices at the same time. This type of solution may cause damage to the electronic module of the lighting fitting.
3. The lighting fitting should be used indoors.

## INSTALLATION

1. Before installation one has to make sure that the fixture will be connected to 220-240VAC power supply by the use of minimum a 1,5mm<sup>2</sup> wire.
2. The lighting fitting is designed for mains and emergency operation and appropriate wiring connection is required for its correct operation:
  - Brown insulation colour - phase wire - to be connected with L terminal,
  - Blue insulation colour - neutral wire - to be connected with N terminal
  - Yellow and green insulation colour - protective earth wire - to be connected with PE terminal.Before connecting the lighting fitting to mains, connect the battery to the electronic system (white terminal).
3. For operation testing - activate the AC power supply.  
LED indicator should light up green, indicating the connection to AC power supply and battery charging. The lighting fitting is fully operable after at least a 24-hour charging cycle. Disconnecting supply voltage will result in the lighting fitting switching into emergency mode.
4. First-time charge of the lighting fitting (battery) should be carried out continuously for 48 hours. This will allow appropriate formatting of the battery pack. During the first-time charge, no testing should be carried and power supply should not be disconnected for any other purposes. Power supply should be disconnected after 48 hours for the first time. The lighting fitting should complete a full emergency operation cycle, after which it should be connected to power supply for another 36 hours. This sequence shall complete the formatting cycle.

## OPERATION

### Emergency operation mode

With standard wiring mode, described in part "Installation" point 2, the lamp will operate in emergency mode. In this mode the lamp operates when powered by AC supply voltage. Correct operation of the device is confirmed by LED indicator lighting up green. The battery is continuously topped up for the purpose of possible emergency operation. When AC power supply is off, the lamp automatically starts operating in emergency mode and the source of light is activated for the period specific for particular model. In emergency mode, the LED indicator does not light up.

### Mains and emergency operation mode

To enable emergency operation of the lighting fitting, in addition to the standard wiring described in part "Installation" point 2, the Lch and Lsw terminals have to be interconnected. In this mode the lamp operates when powered by AC supply voltage. Correct operation of the device is also confirmed by LED indicator lighting up green. Battery is continuously topped up for the purpose of possible emergency operation. When AC power supply is off, the lamp automatically starts operating in emergency mode and the source of light is activated for the period specific for particular model.

### Information on lamp operation

The lamp is operating correctly and is ready for emergency operation if the LED indicator lights up green. Battery charging is indicated by LED indicator lighting up red.

### Battery

The lamp is equipped with a rechargeable Ni-Cd battery. Please remember to carry out the correct first-time charge cycle. It is crucial with this type of batteries - it determines the battery capacity and its life during subsequent operation.

Battery charging is indicated by the LED indicator lighting up green. It is recommended to discharge and then recharge the battery one time every three months, even if it has not been used, in order to prolong its life. It is recommended to replace the battery one time every four years of operation or in case of negative testing results. Obsolete batteries are recyclable products that should be disposed to a recyclable waste collection point.

## FAULTY OPERATION AND ITS POSSIBLE DIAGNOSIS

### LED indicator does not light up and the lamp does not produce light output

AC mains power failure.

### LED lighting fitting lights up red, the lamp does not produce light output (e.g. in mains and emergency mode)

The battery is disconnected or damaged.

### The lighting fitting does not operate in emergency mode the required time for the selected model

It is possible that the battery requires a full charge cycle (24h). If after 24 hours of charging the lamp still does not maintain a given operation time, it is possible that the battery is worn out or damaged due to possible incorrect formatting and needs to be replaced.