

EMERGENCY LIGHT FITTING

Installation and maintenance instructions



TECHNICAL SPECIFICATIONS:	
Light source (non-replaceable):	White LED
Operating modes:	SA (M) - mains and emergency operation A (NM) - emergency operation
Emergency operation duration:	3 hours
Battery (non-replaceable):	Ni-Cd 800 mAh / 3.6V
Battery charging duration:	24 hours
Power supply:	220 - 240V AC 50Hz
Max. power:	4W
Module:	LED
Visibility:	30 metres
Enclosure IP rating:	IP 20



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.

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 1,0mm² 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 is to be connected with the mains phase wire,
 - **Blue** insulation colour - neutral wire is to be connected with the mains neutral wire
 - **Yellow and green** insulation colour - protective earth wire is to be connected with protective earth wire.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. The green LED indicator (marked POWER) should light up, indicating the connection to AC power supply mains. The yellow LED indicator (marked CHARGE) should light up, signalling the battery charging. The LED marked FAULT should be off.
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

Mains and emergency operation mode - switch set in "SA" position

In this mode the lamp operates when powered by AC supply voltage. Correct operation of the device is also confirmed by lighting up green LED indicator (marked POWER). The battery is continuously topped up for the purpose of possible emergency operation (with the LED marked POWER lighting during battery charging 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.

Emergency operation mode - switch set in "A" position

In this mode the lamp does not operate 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.

Information on lamp operation

The lamp works correctly and is charging the battery, if the LED (described POWER) shines green and the LED (described CHARGE) does not light or shines in green until fully charged battery. If the LED (described FAULT) lights up it means that the lamp is not working correctly - you should contact the manufacturer's service.

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. One time every four years of operation or in the case of negative testing results it is recommended to replace the battery. Obsolete batteries are recyclable products that should be disposed to a recyclable waste collection point.

FAULTY OPERATION AND ITS POSSIBLE DIAGNOSIS

LED indicator (marked POWER) does not light up.

AC mains power failure.

LED lighting fitting (marked FAULT) is on

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 (48h). If after 48 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.

FAULTY OPERATION AND ITS POSSIBLE DIAGNOSIS

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 or press the test button for 30 seconds and check whether the lamp is operating in emergency mode - the green LED indicator turns off, and 13 white LEDs 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.

Worn, damaged lamps including batteries, are subject recycled. In this connection, it should be handed to the point of collection of waste electrical and battery or to the manufacturer.

