

FAULTY OPERATION AND ITS POSSIBLE DIAGNOSIS

Green LED (POWER) indicator does not light up

AC power failure.

Yellow LED (CHARGE) lights up

Battery during charging process. LED will go off after the battery is full.

Red LED (FAULT) indicator lights up

Battery not connected or damaged.

The luminaire does not operate in emergency mode the required time for a selected model

It is possible that the battery requires a full charge cycle (24h). If after 24 hours of charging the luminaire still does not keep a predefined autonomy, it is possible that the battery is run-down or damaged due to possible incorrect formatting and needs to be replaced.

RECOMMENDED PERIODICAL MAINTENANCE

The luminaire 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 is suggested to check visually if the LED (POWER) indicator in the luminaire lights up in green.

One time each month

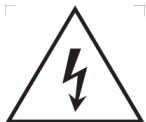
It is necessary to perform a function test by disconnecting the AC power supply and checking whether the luminaire is operating in emergency mode - the green LED indicator should turn off, and LEDs light up.

One time each year

In order to make an autonomy test, disconnect the AC power supply and test if the luminaire operates in emergency mode for a specified time. If the autonomy 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.

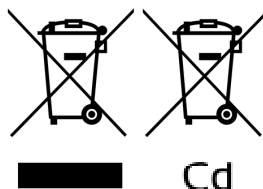
CAUTION!

All damage that might occur as a result of the device being used not in accordance to this instruction will result in loss of guarantee. Used or damaged lamps including batteries, are subject to be recycled. They should be delivered to the point of collection of electrical and battery waste or to the manufacturer.



The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

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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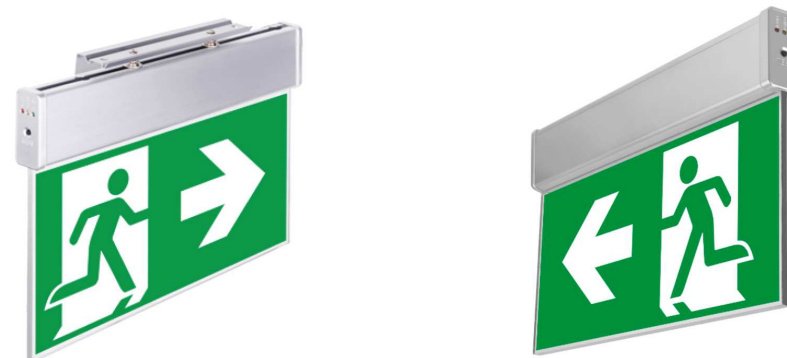
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KTM 97133 - Instruction KASJOPEJA, EN, ver.20221123

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KASJOPEJA LED EMERGENCY LUMINAIRE

Installation and maintenance instructions

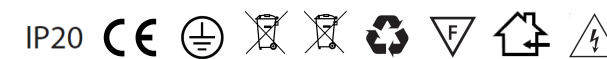


KASJOPEJA LED

TECHNICAL SPECIFICATIONS:

Light source (user non-replaceable):	White LED
Operating modes *:	SA (M) - mains and emergency operation or A (NM) - emergency operation
Test versions:	MT – manual test
Emergency autonomy *:	1h, 2h or 3h
Battery (user non-replaceable) *:	NiCd or NiMH 3.6V 400mAh ÷ 800 mAh
Battery charging duration max.:	24h
Power supply *:	220-240V AC 50Hz (for MT) or 230V AC / 220V DC (for CB)
Max. power:	2W
Module:	Kasjopeja LED
Visibility:	30 metres
Enclosure IP rating:	IP20
Ambient temperature:	10°C ÷ 40°C

*- depending on model



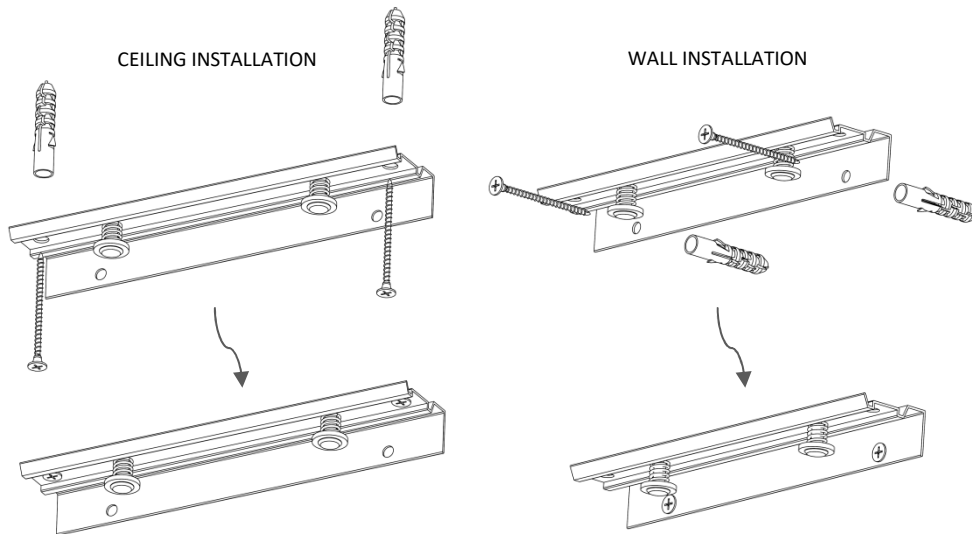
INTRODUCTION

1. The lamp should be installed when power supply is off. Safety rules, construction and electrical installation standards should be followed all the time.
2. The luminaire 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 luminaire.
3. The luminaire should be used indoors.

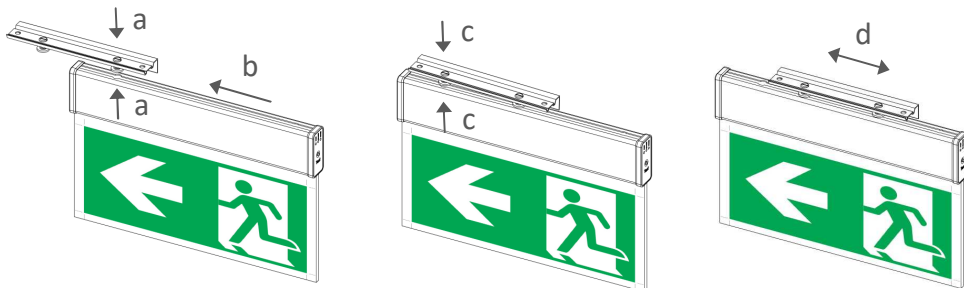
INSTALLATION

1. Before installation one has to make sure that the luminaire will be connected to 220-240VAC power supply by the use of a minimum 1,5mm² wire.
2. Connecting the battery:
 - the battery should be already connected;
 - if it is not connected, one need to remove housing's plastic end cap from the signal panel's side, then slide off housing's aluminium cover and insert white battery plug into its socket; after connection one need to slide the housing's cover and the cap back into their positions.

- Using a supplied mounting bracket the luminaire can be mounted either on ceiling or on wall.
- In order to fix the installation bracket, one need to use screws (max. Ø6 for a ceiling installation or max. Ø5 for a wall installation), according to the below drawings.



- Before installing the luminaire's housing one need to stick desired pictograms on to a diffuser plate.
- Then, one need to insert installation bracket's spring grips, one after another, into the housing's profile, by means of dedicated round hole in its upper part, according to the below drawings (a – inserting first grip, b – sliding the luminaire, c – inserting second grip, d – positioning the luminaire).



Important – one need to install the luminaire in a way that makes the information label visible for people who will carry out testing in future.

- Prepare power cable and connect all the wires to the appropriate terminal block entries.
- The description of luminaire's wires:
L - phase wire - brown or black insulation colour; power source for Maintained operation and battery charging; presence signaled by the green LED
N - neutral wire - blue insulation colour
PE - earth wire - yellow and green insulation colour
Important – one need always to remember about connecting the protection earth wire (**PE**)
- EMERGENCY OPERATION.** If a luminaire is made as Non-Maintained version (A/NM), after proper wiring (connecting L, N and PE wires, NM jumper removed) it should be constantly supplied by power - voltage drop will result in emergency mode activation, the luminaire will light up.
- MAINS AND EMERGENCY OPERATION.** If a luminaire is made as Maintained version (SA/M), after proper wiring (connecting L, N and PE wires) it should be constantly supplied by power - voltage drop will result in emergency mode activation, the luminaire will switch from mains to battery supply, being still lit up.
- It is suggested to indicate the date of installation on the label attached to the battery pack or in another place visible for maintenance staff.

- For quick operation testing – switch on the AC power supply. The green LED indicator should light up, signaling proper work and battery charging.
- First-time charge of the luminaire battery pack 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 out and power supply should not be disconnected for any other purpose. Power supply should be disconnected after 48 hours for the first time. The luminaire 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

In this mode (A / NM) the luminaire does not light when powered by AC supply voltage. Correct operation of the device is confirmed by LED (POWER) indicator lighting up in green. The battery is being continuously trickle charged for the purpose of a possible emergency operation, what is signalled by LED (CHARGE) indicator lighting up in yellow. When AC power supply is off, the luminaire automatically starts operating in emergency mode and the source of light is activated for the period specific for a particular model.

Mains and emergency operation mode

In this mode (SA / M) the luminaire lights up when powered by AC supply voltage. Correct operation of the device is also confirmed by LED (POWER) indicator lighting up in green. The battery is being continuously trickle charged for the purpose of possible emergency operation, what is signalled by LED (CHARGE) indicator lighting up in yellow. When AC power supply is off, the luminaire automatically starts operating in emergency mode and the source of light is switched from mains to battery supply, for a period specific for a particular model.

Information on lamp operation

The luminaire operates correctly and charging circuit works if the LED (POWER) indicator lights up in green. During basic charging cycle, additionally LED (CHARGE) indicator lights up in yellow, it goes off after a battery is fully charged. If green LED (POWER) is off, it means that the luminaire is not operating with AC supply on. If LED (FAULT) indicator becomes red, it means that the luminaire is not working correctly, e.g. the battery is not connected, damaged or worn.

Battery pack

The luminaire is equipped with a rechargeable Ni-Cd or Ni-MH battery pack. Please remember to carry out the correct first-time charge cycle. After such a formatting cycle it achieves its capacity and is prepared to perform a possible full time emergency operation. It is recommended to replace the battery once every four years of operation or in a case of poor test results. Obsolete batteries, similarly to packaging, fluorescent lamps or electronics, are recyclable products that should be disposed to a recyclable waste collection point.

TESTING

KASJOPEJA LED luminaire is equipped with a TEST button, which enables to test emergency operation of the luminaire.

MT manual test function

When the emergency luminaire is connected to mains and there is no voltage drop, pressing and holding TEST button will result in activation of the "voltage drop" mode, the green LED (POWER) will go off and the luminaire should light up. When the button is released - the luminaire will switch back into its standard operation mode.

The above action means that in a case of emergency mode version the luminaire will go from unlit to illuminated. In a case of mains and emergency mode the luminaire will change a power source, from mains to a battery supply, the switch-over moment should be visible as a quick blink – during a very short while the light source will be off.

CB central battery version

Note – CB version can be equipped in a test button, however it is in this case inactive. The button pressing will not cause any luminaire's reaction.

CB version is being monitored directly by a central battery system controller, in a way depending on such system's possibilities and settings.