

3D LEDs Light Self-Testing Maintained Emergency Luminaires



TECHNICAL CHARACTERISTICS	GR-415/4P	GR-416/4P
TYPE	Maintained	
OPERATION VOLTAGE	220-240V AC/50-60Hz	
MAXIMUM POWER CONSUMPTION	11 VA	14 VA
BATTERY (Ni-Cd)	4.8V/1.5Ah	4.8V/3Ah
CHARGING TIME	24 hours	
MINIMUM DURATION	90 minutes	180 minutes
INDICATIONS - CONTROLS	Charge LED, Lamp Fault LED, Fault LED, TEST button	
BATTERY PROTECTION	Overcharge and full discharge protection	
ILLUMINATION SOURCE	4 Power LEDs	
LIGHT SOURCE INTENSITY	125 lm (230V AC) / 250 lm (Emergency Mode)	
DEGREES OF COVER PROTECTION	IP 40	
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22, 55015, 61547, 61000-3-2, 61000-3-3, EN 1838	
OPERATION TEMPERATURE RANGE	0 to 40 °C	
RELATIVE HUMIDITY	Up to 95 %	
EXTERNAL DIMENSIONS	320 x 310 x 310 mm	
TYPICAL WEIGHT	2820 gr	2900 gr
GUARANTEE	3 years (1 year for the battery)	

Installation

In order for the luminaire to become operational, you have to:

1. Remove the mounting base by removing the 4 retaining screws (figure 1).
2. Place the mounting base to the ceiling by using the mounting accessories (included).
3. Connect the wires to the terminal block according to figure 2.
4. Connect the battery's terminal to the appropriate terminal (figure 3).
5. Refit the luminaire's body by placing the removed screws in step 1 .
6. Power on the luminaire.

Also the luminaire can be used in hanging installation by using the rings on the mounting base.

Battery Cut-off

The luminaire enters in this operation when the mains power supply fails and battery has lost its energy. During this operation the

luminaire enters the idle state and battery consumption is negligible, in order to be protected from deep discharge.

Battery charging

The battery charging is completely controlled. In this case, is achieved the perfect battery maintenance , as well as the elongation of its duration. When the battery has completely charged, it charges with a maintenance current.

Manual Test

The manual test can be conducted only if the main power supply and the battery is connected. By pressing the test button briefly an operation test is initiated. During this test period all indication LEDs are OFF.

Automatic test

This test includes all the operations that provide the manual test and is conducted automatically every 15 days. In order to be

performed, the main power supply and the battery should be connected.

Automatic Autonomous Test

The Automatic autonomous Test is conducted and measures the luminaire's back up operation. This test is conducted automatically every six months. In order to be performed, the main power supply and the battery should be connected (the battery should be charged). If the battery is not charged, the test is postponed until the battery is completely charged. If during the Automatic Autonomous Test the luminaire's duration is lower than the named, then the battery must be replaced.

Back Up Operation

The autonomous duration of battery during emergency mode is at least the one that is stated in the list of the first page. During emergency mode, a LED strip test is also performed.

Resetting Errors

Push the Test button for 5 seconds, to extinguish all the indicated LED errors. Then the luminaire enters regular operation mode.

Indication LED status (with connected mains power supply).

AC Charge

On: Good charge current.
ff: No battery (No charging current or disconnected battery).

Lamp fault

n: faulty LED strip.
Off: Good LED strip.

Fault

ff: Battery OK.
Blink (With AC Charge LED ON): Autonomy or low battery problem **(the battery must be replaced)**.
Blink (With AC Charge LED Off): No charging current or disconnected battery.

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1. Operations for installation, maintenance or testing must be done by authorized personnel only.

2. The device must be connected to the mains power supply thru a fuse dependent by the total amount of the line's power load.

3. In case of battery or light source replacement, these must be replaced by parts of the same type, by the manufacturer or by a competent person.

4. In case of inactive use for a period greater than 2 months, disconnect the battery by pulling out the battery's connector.

5. **It is not allowed to discard batteries in to common trash bins, they must be discarded only in battery recycling points. Do not incinerate.**

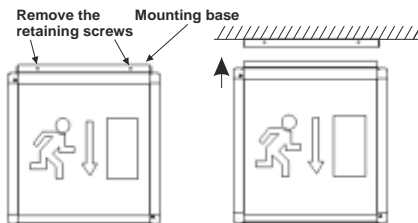


figure 1

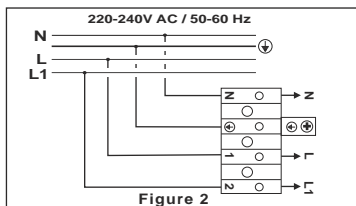


Figure 2

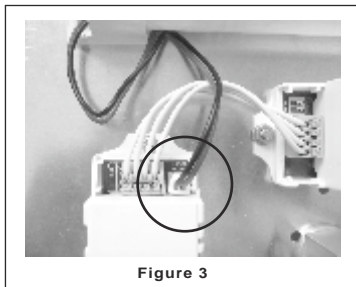


Figure 3