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manufacturer



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WATERPROOF SELF TESTING MAINTAINED EMERGENCY LUMINAIRES



TECHNICAL CHARACTERISTICS (for LED MODULE Specs. see page 4)

	GR-938/4P	GR-938/6P	GR-939/4P	GR-939/6P
OPERATION VOLTAGE	220-240V AC/50-60Hz			
MAXIMUM POWER CONSUMPTION	4.6W/5 VA	5.8W/6.2 VA	5.2W/5.5 VA	6.1W/6.4 VA
BATTERIES (Ni-Cd)	4.8V/1.5Ah	4.8V/3Ah		4.8V/4Ah(Ni-MH)
BATTERY PROTECTION	From overcharge and deep discharge			
INDICATIONS - CONTROLS	Charge, lamp fault, fault indication LED, TEST button			
CHARGING TIME	24 h			
MINIMUM AUTONOMOUS DURATION	90 min		3 h	
ILLUMINATION SOURCE	4 white power LED's	6 white power LED's	4 white power LED's	6 white power LED's
ILLUMINATION (MAINS / EMERGENCY)	175lm / 350lm	245lm / 480lm	175lm / 350lm	245lm / 480lm
DEGREES OF COVER PROTECTION	IP65			
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3			
OPERATION TEMPERATURE RANGE	5 to 40 °C			
RELATIVE HUMIDITY	Up to 95%			
CONSTRUCTION MATERIALS	ABS/PC, PC			
EXTERNAL DIMENSIONS	360 x 145 x 73 mm			
TYPICAL WEIGHT	915gr.	1005gr.		1060gr.
GUARANTEE	3 years (1 year for the battery)			

**Thank you for your trust in our products.
Olympia Electronics - European manufacturer.**

GENERAL

These luminaires are used in places where emergency luminaires are needed. Each luminaire must be permanently connected to mains power supply. In normal operation the led strip lights and the battery is charging. In case of a mains power supply failure the luminaire will light the led strip automatically in emergency mode. When the mains power supply is restored the device turns to normal operation.

INSTALLATION

To install the luminaire follow the installation instructions on page 3.

OPERATION

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/RESET button briefly (page 3) 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 the luminaire's duration is lower than the named during the Automatic Autonomous Test, 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 technical characteristics. During emergency mode, a LED strip test is also performed.

Resetting Errors

Push the TEST/RESET button for 5 seconds, to extinguish all the indicated LED errors (page 3). Then the luminaire enters regular operation

mode.

**Indication LED status
(with connected mains power supply).**

Charge

On: Good charge current.

Off: No battery (No charging current or disconnected battery).

Lamp fault

On: Faulty LED strip.

Off: Good LED strip.

Fault

Off: Battery OK.

Blink (With Charge LED ON): Autonomy or low battery problem

(the battery must be replaced).

Blink (With Charge LED Off):

No charging current or disconnected battery.

2. The device must be connected to the mains power supply through a fuse depended on the total amount of the line's power load.

3. In case of battery or lamp 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.**



ATTENTION!!!

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

NOTE: LED= Light Emitting Diode

LABELING EXPLANATION:

X: Self contained

1: Maintained (*)

A: Including test device

G: Internally illuminated

***90:** 1.5 hour duration

180: 3 hours duration

Note!! The installer should fill in, on the specification label, the letter **G** if the luminaire is used as a safety sign.



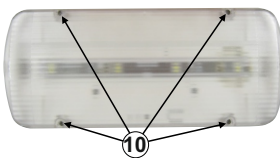
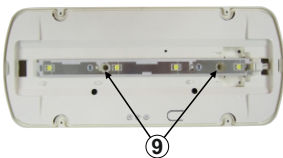
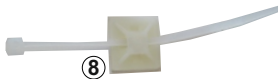
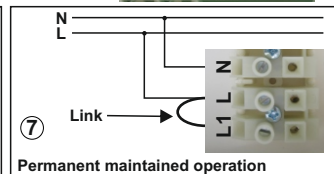
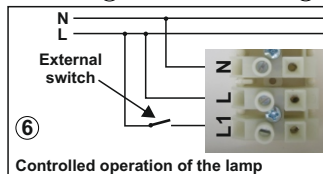
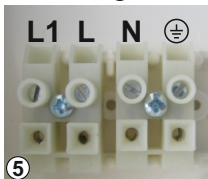
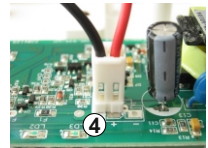
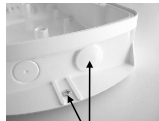
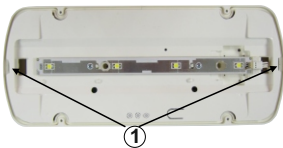
X 1 A G * 9 0

(*) Maintained operation: The luminaire lights its illumination source, when it is powered by the mains power supply or not.

Non Maintained operation: The luminaire lights its illumination source, only in power supply's failure.

INSTALLATION INSTRUCTIONS

- ① Remove the diffusor. Place simultaneously a flat blade screwdriver and pull up gently the reflector.
- ② Install the included plastic cover in to the unused hole and install the base plastic (with the included mounting screws and plugs).
- ③ **Always use in any case round mains cable, with external diameter of 6-9mm (H05RN-F type 2x1mm² or any other type, at least equal to it's mechanical and electrical properties). ATTENTION!! The cable must not be deformed in any way (This requirement is important to ensure the tightness isolation IP 65).** Install the cable gland, pass the round cable thru and tighten it all the way.
- ④ Place the battery's connector to the corresponding connector on the P.C.B.
- ⑤ Connect the mains cables to the respective terminal block (connect the ground wire if required).
- ⑥ **N** for neutral, **L** for live wire and **L1** for the maintained operation. The **L1** wire can be connected to an external switch to control the maintained or non maintained operation of the luminaire.
- ⑦ For permanent maintained operation use two wires to power the luminaire, **N** for neutral and **L** for live wire, and link the **L** and **L1**.
- ⑧ Install the included tie (if needed) to fasten securely the power cables.
- ⑨ Refit the reflector and fasten the two small screws (included).
- ⑩ Finally place the diffusor by using the 4 included screws (tightening torque 1.2 Nm).



Manual TEST or Resetting Errors
 In order to test or reset the device you must carefully remove the diffusor by unfastening the 4 mounting screws. Then push the button as described in the according paragraphs on page 1.

NOTE!! After finishing the installation you must power the luminaire at least for 24 hours for battery charging to perform the named autonomy.

Battery replacement

1. Unfasten the 4 retaining screws (step 10 of the installation instructions) and remove the diffusor.
2. Unfasten the 2 retaining screws step 9 of the installation instructions and remove the reflector.
3. Remove the old battery and place a new one of the same type and characteristics.
4. Replace the removed parts (previous steps 1,2).

LED MODULE CHARACTERISTICS

	GR-938/4P	GR-939/4P	GR-938/6P	GR939/6P
Manufacturer	Olympia Electronics A.E.			
Model Number	2111143		2211143	
Voltage Range	11.6-13.6VDC			
Nominal Power	4W		6W	
Connections	Cable connection between main pcb and led module			
Temperature (tc)	65 °C max. across the board			



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

NOTE! The light source is non-user replaceable.

WARRANTY

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid. Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of deflection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

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