

WATERPROOF SELF TESTING EMERGENCY LUMINAIRE



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

GR-940/15L	
OPERATION VOLTAGE	220-240V AC/50-60Hz
MAXIMUM POWER CONSUMPTION	4.1W /4.5VA
BATTERIES (Ni-Cd)	3.6V/3Ah
BATTERY PROTECTION	From overcharge and deep discharge
INDICATIONS	Charge, Lamp Fault, Battery Fault indication LED
CHARGING TIME	24h
MINIMUM AUTONOMOUS DURATION	480min
ILLUMINATION SOURCE	15 white LEDs
ILLUMINATION (MAINS / EMERGENCY)	105lm / 105lm
DEGREES OF COVER PROTECTION	IP 65
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	363 x 145 x 73 mm
TYPICAL WEIGHT	945gr.
GUARANTEE	3 years (1 year for the battery)

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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 (L1 connected to L) 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 (powered by its battery). 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 Charging

The battery charging is completely controlled. Thereby, the best possible battery maintenance is achieved, as well as the elongation of its duration. When the battery has completely charged, it charges with a maintenance current.

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.

Manual Test

The manual test can be conducted only if the mains 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.

Tests

Normally the illumination source and the autonomy tests are programmed by the control panel and the test results are sent to the control panel.

Automatic Operational 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 mains power supply and the battery should be connected.

Automatic Autonomous Test

The Automatic Autonomous Test is conducted and measures the device's back up operation

and emergency duration. This test is conducted automatically every 6 months. In order to be performed, the mains power supply and the battery should be connected and fully charged. If the battery is not fully charged, the test is postponed until the battery is completely charged. If during this test, the autonomy is less than nominal then the battery fault led turned on continuously and 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 technical characteristics. During emergency mode, a light source test is also performed.

Resetting Errors

Push the TEST/RESET button for 5 seconds, to delete 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 condition.

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

Lamp Fault with L1 connected to L

On (with LED strip off): Faulty LED strip (must be replaced).

On (with LED strip on): Problem in the back up circuit of the LED strip (must be checked by an authorized personnel).

Off: Good LED strip.

Battery 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.

ATTENTION!!!

1. Operations for installation, maintenance or testing must be done by authorized personnel only, after a mains interruption.
2. The device must be connected to the mains power supply through a fuse dependent 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.



NOTE: LED= Light Emitting Diode

LABELING EXPLANATION:

X: Self contained

1: Maintained (*)

A: Including test device

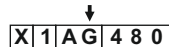
G: Internally illuminated

***480:** 8 hours duration

(*) 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.

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




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

Battery replacement

It can be done only by a competent person and after the mains interruption.

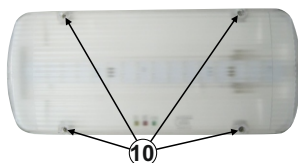
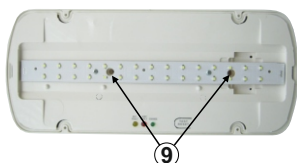
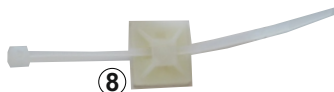
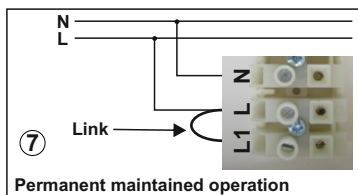
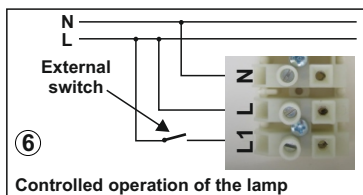
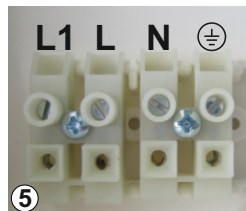
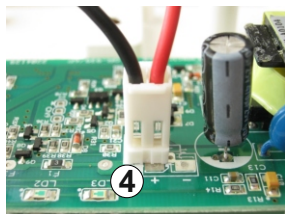
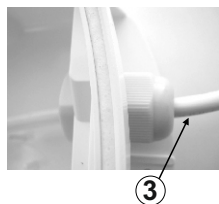
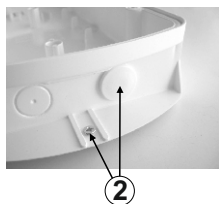
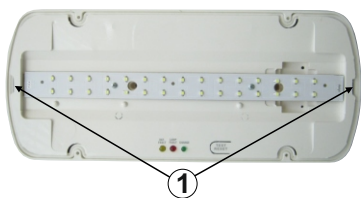
1. Unfasten the 4 retaining screws (not all the way) (step 10 of the installation instructions) and remove the diffusor.
2. Unfasten the 2 retaining screws (step 9 of the installation instructions) and remove the reflector.
3. Remove the old battery and place a new one of the same type and characteristics.
4. Replace the removed parts (previous steps 1,2).

 *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.*

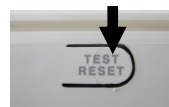
INSTALLATION INSTRUCTIONS FOR WALL OR CEILING MOUNTING

- ① Remove the diffuser. Place a flat blade screwdrivers 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 IP65 rating).** Install the cable gland, pass the round cable through 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 diffuser 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 diffuser by unfastening the 4 mounting screws. Then push the button as described in the according paragraphs on page 1 and 2.



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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LED MODULE CHARACTERISTICS

LED MODULE CHARACTERISTICS	
	GR-940/15L
Manufacturer	Olympia Electronics S.A
Model Number	1605163/15L
Voltage Range	8.7-10.8 V DC
Nominal Power	0.975W
Connections	Cable connection with non reversible connectors
Temperature (tc)	45 °C max. across the board