ISO 9001

European manufacturer

olympia electronics
SAFETY & SECURITY SYSTEMS
for a safer world!

WATERPROOF SELF TESTING MAINTAINED EMERGENCY LUMINAIRES WITH LEDs

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

	GR-1938/4P	GR-1938/6P	GR-1939/4P	GR-1939/6P
OPERATION VOLTAGE	220-240V AC/50-60Hz			
MAXIMUM POWER CONSUMPTION	4.7W / 5.1VA	6.2W / 6.5VA	5.3W / 5.7VA	6.2W / 6.5VA
BATTERY (Ni-Cd)	4.8V/1.5Ah	4.8V/3Ah		4.8V/4Ah (NiMH)
BATTERY PROTECTION	From overcharge and deep discharge			
INDICATIONS	Charge, Lamp Fault, Battery Fault LED			
CHARGING TIME	24h			
MINIMUM AUTONOMOUS DURATION	90min		180min	
ILLUMINATION SOURCE	4 power LED	6 power LED	4 power LED	6 power LED
ILLUMINATION (MAINS / EMERGENCY)	175lm / 350lm	245lm / 480lm	175lm / 350lm	245lm / 480lm
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	Bayblend FR3010, transparent polycarbonate			
EXTERNAL DIMENSIONS	313 x 118 x 66 mm			
TYPICAL WEIGHT	725gr.	810gr.		862gr.
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 (L1 connected to L) the led strip lights and the battery is charging.
In case of a mains power supply failure the luminaire willn 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.

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

This test can be done by placing the test card on the side of the indications (page 4) and remove it instantly an operation test is initiated. The light source and the emergency circuit of the device is monitored. The manual test can be conducted only if the main power supply and the battery is connected. During this test period all indication LEDs are OFF.

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

923193903_09_003

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
Place the test card A-1900 on the side of the indications (page 4) and remove it after the reset is conducted (the indications light in sequence), to delete all the indicated LED errors. 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, maintainance or testing must be done by authorized personnel only.
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 safety sign
***90:** 1.5 hour duration
180: 3 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.

X 1 A G 1 8 0

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. Follow the step 1 of the installation insrtuctions and remove the diffusor.
2. Remove the reflector (step 1 of the installation instructions).
3. Remove the old battery and place a new on 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 Unclip the plastic latches with a flat blade screwdriver, unfasten the 2 screws (not all the way, *step 10 B*) and remove the diffusor. Place a flat blade screwdriver to the recesses and pull up gently the reflector.

② Install the base plastic (with the included mounting screws and plugs). **WARNING!! To preserve the IP65 rating, fit the screws with the metallic washers and plastic rings which are included.**

③ **Always use in any case round mains cable, with external diameter of 5-10mm (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 gasket and make a hole in the center by using a small screwdriver. Pass the round cable through the gasket. Install the second included gasket in to the unused hole.

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.

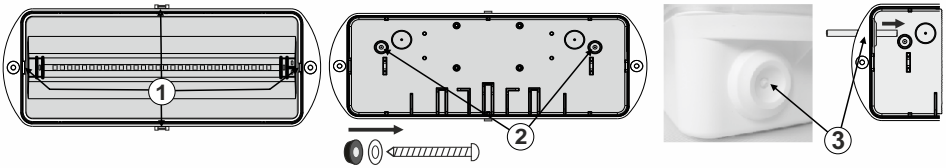
⑥ **N** for neutral, **L** for live wire and **L1** for the maintained operation. The **L1** wire can be connected to an external switch to control the maintained or non maintained operation of the luminaire.

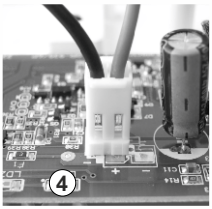
⑦ For permanent maintained operation use two wires to power the luminaire, **N** for neutral and **L** for live wire, and link the **L** and **L1**.

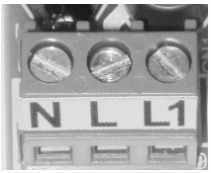
⑧ Install the included tie to fasten securely the power cables.

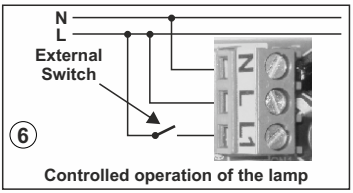
⑨ Refit the reflector (mind the holes of the indications).

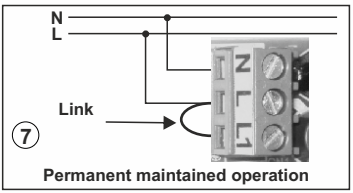
⑩ Finally place the diffusor (mind the holes of the indications). **Attention!! First the plastic latches (A) must be secured *(click sound)* and then fasten the 2 screws (B) (tightening torque 1.2 Nm).**

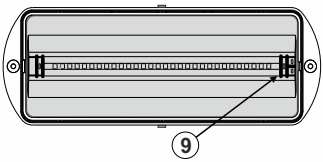


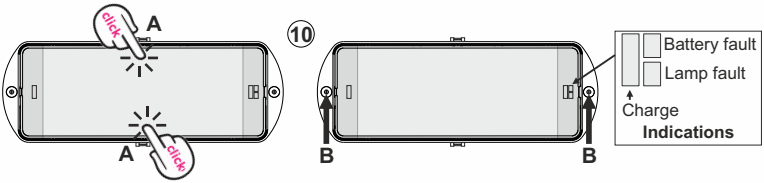


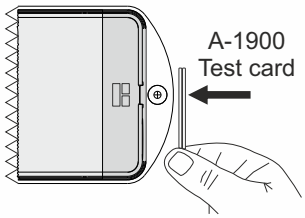












Manual TEST or Resetting Errors with the A-1900 Test card (not included and is available only on request). In order to test or reset the device you must place the card on the side of the indications and remove it instantly for TEST or remove it after the reset is conducted (the indications light in sequence).

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 defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

HEAD OFFICE

72nd km. O.N.R. Thessaloniki-Katerini
P.C. 60300 P.O. Box 06 Eginio Pierias Greece
www.olympia-electronics.gr
info@olympia-electronics.gr

LED MODULE CHARACTERISTICS				
	GR-1938/4P	GR-1939/4P	GR-1938/6P	GR-1939/6P
Manufacturer	Olympia Electronics S.A.			
Model Number	1509153/4P		1509153/6P	
Voltage Range	11.6-13.6 V DC			
Nominal Power	4W		6W	
Connections	Non reversible connection between main pcb and led module			
Temperature (tc)	65 °C max. across the board			