GR-578/L/18/ST/WP WATERPROOF SELF TESTING MAINTAINED EMERGENCY LUMINAIRE

TECHNICAL CHARACTERISTICS (*for LED MODULE Specs. see page 5*)	
OPERATION VOLTAGE	220-240V AC/50-60Hz
MAXIMUM POWER CONSUMPTION	12W / 12.5VA - PF: 0.95/230V for luminaire
BATTERY (Ni-Cd)	4.8V/3Ah
BATTERY PROTECTION	From overcharge and deep discharge
INDICATIONS - CONTROLS	Charge LED, Lamp Fault LED, Battery LED
CHARGING TIME	24 h
MINIMUM AUTONOMOUS DURATION	180 min
ILLUMINATION SOURCE	White LEDs
LIGHT SOURCE INTENSITY (230V AC/emerg.)	850lm / 425lm
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, EN 1838
OPERATION TEMPERATURE RANGE	5 to 40 °C
RELATIVE HUMIDITY	Up to 95%
CONSTRUCTION MATERIALS	Painted steel plate (RAL 7036), Bayblend FR3010, transparent polycarbonate
EXTERNAL DIMENSIONS	635 x 635 x 105 mm
TYPICAL WEIGHT	10640gr (double side)
GUARANTEE	3 years (1 year for the battery)

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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 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.

OPERATION

Battery Charging

The battery charging is completely controlled. In this case, 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 mains 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 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: Charge current OK.
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: LED strip OK.
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, 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.**

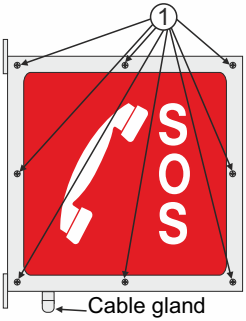
INSTALLATION
To install the luminaire follow the installation instructions on page 3.

NOTE: LED= Light Emitting Diode
LABELING EXPLANATION:
X: Self contained
1: Maintained (*)
A: Including test device
G: Internally illuminated safety sign
***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.

INSTALLATION INSTRUCTIONS

1. Remove the front cover by unscrewing the retaining screws. Remove the acrylic plate.
2. **Always use in any case round mains cable, with a diameter of 12-14mm (H05RN-F type 4x1mm² 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 IP65).** Pass the round cable through the cable gland and tighten it all the way.
3. Unfasten the screw to remove the plastic cap (photo1) and connect the battery's cable as shown in the photo 2. Replace the plastic cap and fasten the retaining screw.
4. Connect the mains cables as shown in figures 5 and 6. Yellow wire to GND, blue to N, brown to L and black for maintained operation. The black wire can be connected to an external switch to control the maintained or non maintained operation of the luminaire. For permanent maintained operation use three wires to power the luminaire, GND for ground N for neutral, L for live wire and link the brown and black wire to the same terminal.
5. Refit the acrylic plates and the front cover by srewing the removed screws in step 1.
6. Power on the device.



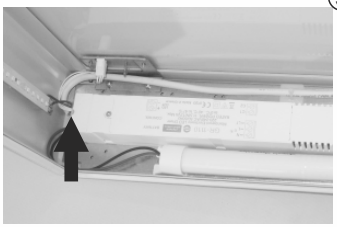


Photo 1

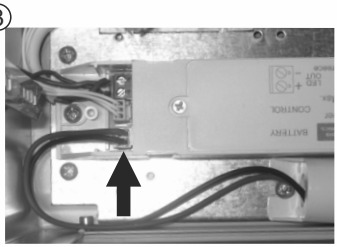
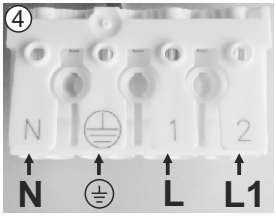
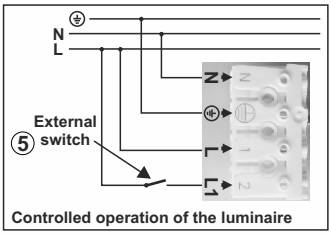
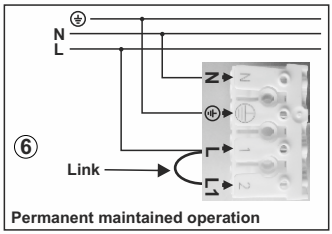


Photo 2







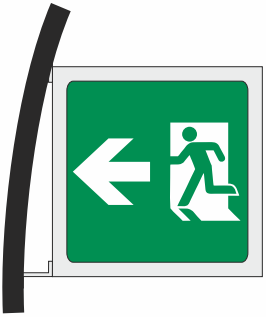
The light source contained in this luminaire shall only be replaced by the manufacturer, or his agent, or a similar qualified person.

NOTE! The light source is non-user replaceable.

MOUNTING

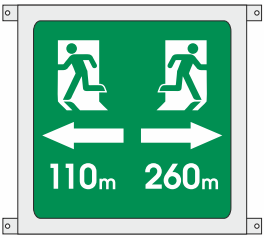
The luminaires of this series can be mounted in parallel to the wall of the tunnel (single sided) for indicating exit routs or vertically to the wall for indicating the position of exit rout or the position of emergency phone. There is also, after request, capability for installation to the wall with an angle.

Mounting Examples



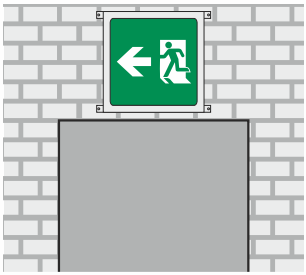
Double sided luminaire mounted vertically to the wall with an angle with indication of exit rout.

Single sided luminaire mounted parallel to the wall with indication for the distance of the exit routs.

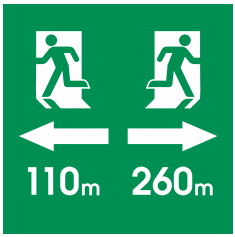


Double sided luminaire mounted vertically to the wall with indication of emergency phone.

Single sided luminaire mounted in parallel to the wall above the exit door.



TYPICAL SYMBOLS



Exit routs

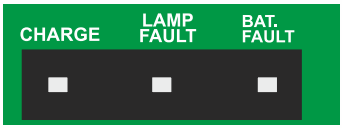
Exit rout

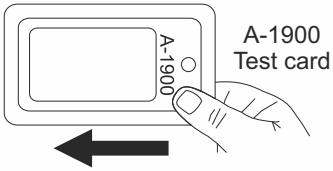
Emergency phone

Except for typical symbols all luminaires can be constructed after request with any other symbols.

Manual TEST or Resetting Errors with the A-1900 Test card (not included and is available only after 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).

LED INDICATIONS

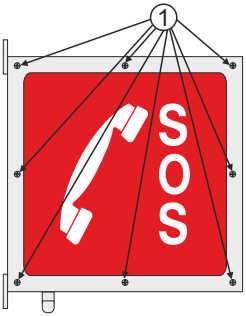


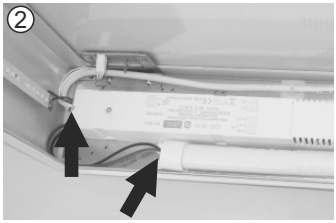


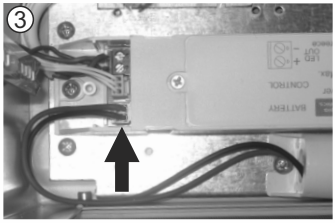
Battery replacement

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

Step 1. Remove the front cover by unscrewing the retaining screws. Remove the acrylic plate.
Step 2. Unfasten the screws to remove the plastic cap and the battery's plastic holder.
Step 3. Remove the old battery and place a new on of the same type and characteristics. Connect the battery's cable as shown in the photo.
Step 4. Replace the removed parts (previous steps 1,2).







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

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LED MODULE CHARACTERISTICS	
	GR-578/L/18/ST/WP
Manufacturer	Olympia Electronics S.A.
Model Number	2609153 + 2709153
Voltage Range	11.6-14.4V DC
Nominal Power	6.76W
Connections	Cable connection with polarity
Temperature (tc)	50 °C max. across the board