

## SELF TESTING NON MAINTAINED EMERGENCY LUMINAIRES



### TECHNICAL CHARACTERISTICS (for LED MODULE Specifications see page 4)

	GRL-37/90	GRL-37/180
OPERATION VOLTAGE	220-240V AC/50-60Hz	
MAXIMUM POWER CONSUMPTION	13.3W/14VA	
BATTERIES (Pb)	12V/7Ah	2x12V/7Ah
BATTERY PROTECTION	From overcharge and deep discharge	
INDICATIONS - CONTROLS	POWER-CHARGE indicator, LAMP FAULT-BATT. FAULT indicator, TEST button	
CHARGING TIME	<24 h	
MINIMUM AUTONOMOUS DURATION	90 min.	180 min.
LIGHT SOURCE	White Power LEDs	
EMERGENCY ILLUMINATION	3200lm	
DEGREES OF COVER PROTECTION	IP42	
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	Aluminum, ABS/PC, PC	
EXTERNAL DIMENSIONS	302 x 94 x 350 mm.	
TYPICAL WEIGHT	4120gr.	6310gr.
GUARANTEE	3 years (1 year for the battery)	

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#### GENERAL

These luminaires are used (ta 40°C) where emergency light is needed. Each luminaire must be connected permanently to the mains power supply.

#### OPERATION DESCRIPTION

When the unit is connected to the mains power supply (after connecting the battery) the indicator LAMP FAULT – BATT. FAULT remains OFF whereas the indicator POWER CHARGE blinks to indicate that the batteries are charging.

When the batteries are fully charged this indicator will light permanently. If this indicator does not light then probably the battery has not been connected. If the batteries are connected and the indicator does not light then contact a qualified service technician for assistance. The charging procedure is monitored by a microprocessor and is based on a 3 stage cycle thus ensuring a fast and full charge of the battery. The charge current is supplied by a high efficiency switch mode power supply which ensures perfect charging even during the fluctuations of the mains power supply.

#### BATTERY CUTOFF

The unit enters this state during the power supply failure and when the battery has been

fully discharged. In this state the luminaire draws the least power from the battery in order to prevent deep discharge.

#### MANUAL TESTING

Is accomplished by briefly (<1 sec.) pressing the TEST button. This permits the user to test the good operation of the luminaire's emergency circuit. The unit simulates a power failure and the lamps are lit using the batteries. This manual test does not affect the automatic test.

#### DIMMING OPTION

When the luminaire is in emergency mode, with corresponding pressings of the button, we can choose the illumination of 100%, 50%, 33% or turned off, either to increase the autonomy time or not to consume the battery power unnecessarily. This option is canceled when the network is restored.

#### LAMP TESTING

The luminaire tests the good condition of the lamps in emergency mode and warns the user for probable malfunction. If a lamp is found faulty then the LAMP FAULT indicator starts to blink. To verify which lamp is faulty use the TEST button. If

the faulty lamp is replaced then the error is automatically restored and the indicator is turned OFF.

### AUTOMATIC EMERGENCY CIRCUIT TEST

The unit automatically tests the emergency circuit every 15 days (if the battery and mains power are connected) . During this test the lamps are turned ON for 3 seconds using the batteries. In some cases this function might not be acceptable (i.e in cases this function might not be acceptable (i.e in cinema theaters) so the installer must take this into account during the installation.

### AUTOMATIC DURATION TEST

This test is conducted every 6 months by simulating a power failure, if the battery and mains power supply are connected. The unit lights the lamps using the charged battery and counts the time until the stated duration. If the lamps are ON during the end of the test then the unit is restored to its normal operation (lamps OFF and battery charging). If the lamps go OFF before the end of the test then the unit is restored to its normal operation but the LAMP FAULT / BATT. FAULT indicator is lit to show that there is a problem with the battery and that the battery must be replaced. Let it be noted that this duration test is also done during every long power failure. If the power failure lasts for a long time and the luminaire has entered the BATTERY CUTOFF mode and the duration measured is not correct then the fault indicator will light when the power is restored.

### ERASING ERRORS

Erasing errors is accomplished with a prolonged pressing of the TEST button (>5 sec) when the unit is connected to the mains power supply. The fault indicated with the indicator LAMP FAULT / BATT. FAULT will be erased. If the cause of the fault has not been restored (i.e burned lamp) then the indicator will light again. If the fault was caused by a low emergency duration and you erase the error then this will be indicated again during the next duration test after 6 months. In this case (for duration errors) it is vital to replace the battery before erasing the error (the error is automatically erased if the

mains power and the battery are disconnected).

### WARNING !!!

1. Every test, installation or maintenance procedure must be done only by qualified personnel.
2. The unit must be connected to the mains power supply using a line fuse rated accordingly.
3. The replacement of the battery and the light source must be done using parts of the same type, by the manufacturer or by a competent person.
4. If the luminaire must be isolated from the mains power supply for more than 2 months then the batteries must be disconnected by removing the battery connectors.
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.**



### Battery replacement

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

1. Follow the step 2 of the installation procedure.
2. Disconnect the cables and remove the old battery.
3. Connect the new battery with the same type (step 3 of the installation procedure) and place it in the position of the old one.
4. Follow the step 6 of the installation procedure and power the device.

### Connection to module (After request)

This luminary can be connected to any of the following modules: Remote module, address module, wireless module and fault relay module. If you connect it to a module that supports inhibit or rest mode, you should know that these commands can be cancelled only during normal mode (ie. not in emergency). For installation refer to step 5 of the installation procedure in page 3. Also refer to the user manual of each module for additional information.

## INDICATION LED STATUS (with the mains power supply connected)

POWER / CHARGE		LAMP FAULT / BATT. FAULT	
○	Disconnected battery / not charging	○	Normal operation mode
●	Charged battery	●	Low emergency duration (replace battery)
⚡	Battery under charge	⚡	Lamp fault (Check lamps and replace if needed)

○ Indicator OFF ● Indicator ON ⚡ Indicator Blinking

## INSTALLATION PROCEDURE (For wall mounting only)

Mounting holes

Fig. 1

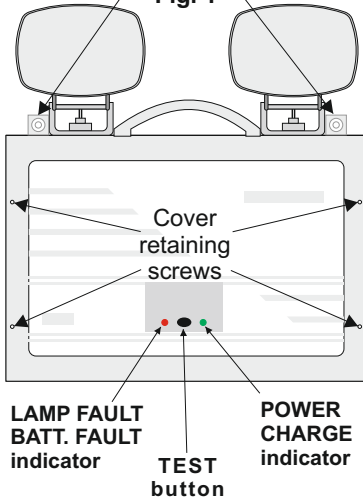


Fig.2

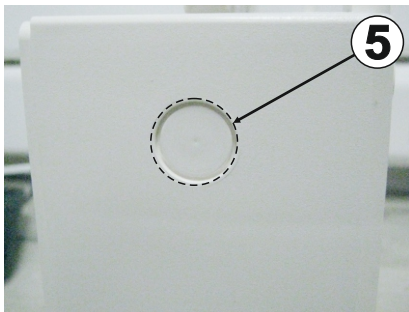
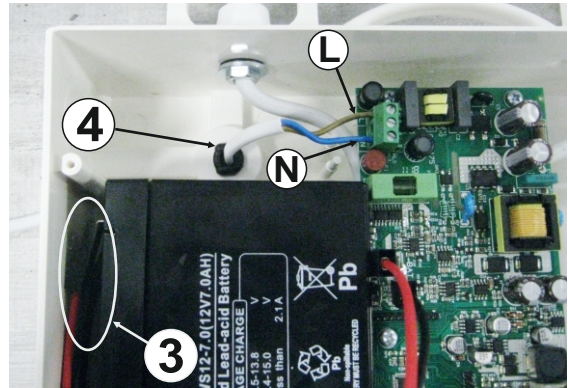


Fig. 3

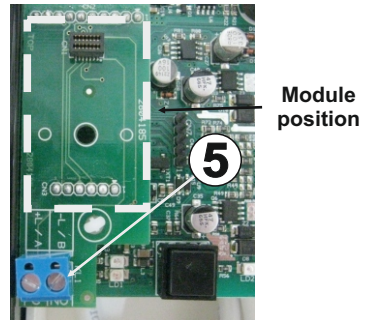


Fig.4

1. Install the included mounting accessories to hook the device from the mounting holes (Fig.1).
2. Unfasten the 4 mounting screws to remove the front plastic cover (Fig.1).
3. Make sure that the battery's cables are connected to the respective poles. Black cable to (-) pole and red cable to (+) pole (Fig. 2).
4. Install the included cable gland or the rubber o-ring. Pass through the mains cable and stabilize it by fastening the cable gland. Connect the wires to the terminal blocks L for live wire and N for neutral (Fig. 2).
5. If you use a module, open a hole in one of the two sides of the luminaire (Fig.3). Install the cable grommet and pass the 2 signal cables on the C,NO terminal (Fig. 4), minding the correct polarity. Depending on the module that will be used, the cables, have different names. In C, signal +L, A are also connected, while signals -L, B in the terminal NO (Fig.4).
6. Refit with care the front plastic cover, by fastening the 4 mounting screws (tightening torque 1N\*m).

### WARNING!!

After the installation has finished, charge the batteries for at least 24 hours so as to obtain the rated autonomy duration.

**NOTE:** LED= Light Emitting Diode

**LABELING EXPLANATION:**

**X:** Self contained

**0:** Non Maintained (\*)

**A:** Including test device

**F:** Automatic test gear complying with IEC 61347-2-7 denoted EL-T

**90:** 1.5 hour duration

**180:** 3 hours duration

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

Note!! If a module will be used (except the fault relay module), then the installer should fill in, on the specification label, the letters **B C**.

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X	0	A	F		9	0
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**LED MODULE CHARACTERISTICS**

	<b>GRL-37/90</b>	<b>GRL-37/180</b>
Manufacturer	Olympia Electronics S.A.	
Manufacturer	1005183	
Voltage Range	17.5-20.5V	
Nominal Power	14W	
Connections	Cable connection between main pcb and led module	
Temperature (tc)	68 °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 defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

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