European manufacturer

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# SPOT LIGHT WATERPROOF SELF TESTING NON MAINTAINED EMERGENCY LUMINAIRES WITH WHITE LEDs

CE

## TECHNICAL CHARACTERISTICS FOR LED MODULE SPECS (see page 4)

| | GR-298/60L/90/WP | GR-298/30L/180/WP |
|---|---|---|
| OPERATION VOLTAGE | 220-240VAC 50-60Hz | |
| MAXIMUM POWER CONSUMPTION | 3.3W / 3.7VA | |
| BATTERY (Ni-MH) | 4.8V/1.2Ah | |
| BATTERY PROTECTION | Deep discharge and over charge protection | |
| INDICATIONS - CONTROLS | Charge, lamp fault, battery fault, TEST button | |
| CHARGE TIME | 24 hours | |
| MINIMUM DURATION | 1.5 hour | 3 hours |
| LIGHT SOURCE | 60 white LEDs | 30 white LEDs |
| EMERGENCY ILLUMINATION | 450lm | 220lm |
| 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 MATERIAL | ABS/PC, PC | |
| EXTERNAL DIAMENTION | Ø125 x 65 mm | |
| WEIGHT | 455 gr. | |
| GUARANTEE | 3 years (1 year for the battery) | |

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## GENERAL

These devices are used in places where emergency luminaires are needed. The luminaires GR-298/60L/90/WP and GR-298/30L/180/WP are suitable for open area lighting. Each device must be permanently connected to mains power supply. In normal operation the battery is charging. In case of a mains power supply failure the device will light the illumination led 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 2.

### 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.

### Battery Cut-off

The device enter in this operation when the mains power supply fails and battery has lost its energy. During this operation the device enters the idle state and battery consumption is negligible, in order to be protected from deep discharge.

### Automatic Operational Test

It 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. The BATTERY FAULT LED blinks during the measurement, indicating this process to the user. This test is conducted automatically every six months. In order to be performed, the main 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.

**ATTENTION!!!**
1. Operations for installation, maintainance or testing must be done by authorized personel only.
2. The device must be connected to the mains power supply through a fuse dependent by the total amount of the line's power load.
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. In case of inactive use for a period greater than 2 months, disconnect the battery by pulling out the battery's connector.

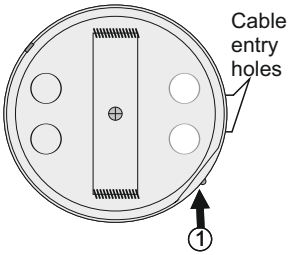
5. **It is not allowed to discard batteries into common trash bins, they must be discarded only in battery recycling points. Do not incinerate.**

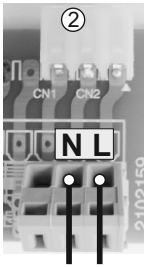
**NOTE:** LED= Light Emitting Diode
**LABELING EXPLANATION:**
**X:** Self contained
**0:** Non maintained **(*)**
**A:** Including test device
**90:** 1.5 hour duration
**180:** 3 hour duration

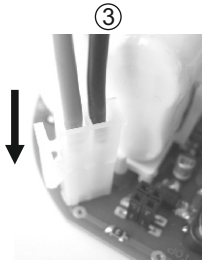
(*) Non Maintained operation: The luminaire lights its illumination source, only in power supply's failure.
Maintained operation: The luminaire lights its illumination source, when it is powered by the mains power supply or not.

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

## INSTALLATION INSTRUCTIONS




**Initial installation** **230V AC**

① Untighten the screw but do not remove it and pull up the reflector.
② **Always use in any case round mains cable, with a 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 IP 65).** Install the included gaskets in to the cable entry holes *(verify that are not deformed)*. Make a hole in the center by using a small screwdriver. Pass the round cable through the gasket. Tighten the cable gland to form the seal. Detach the power terminal, connect the wires as shown in the picture 2 and attach the power terminal.
③ Place the battery's connector to the corresponding connector on the P.C.B.
④ Refit the reflector (mind the correct orientation), tighten the screw securely and the luminaire is ready for mounting.

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

**Mounting the luminaire in suspended ceiling.**
Set up the luminaire to the suspended ceiling as it is shown bellow *(Required opening 110mm)*:
**Step 1**
Bend the springs, to get into the hole of the suspended ceiling, as you can see to the next figure.

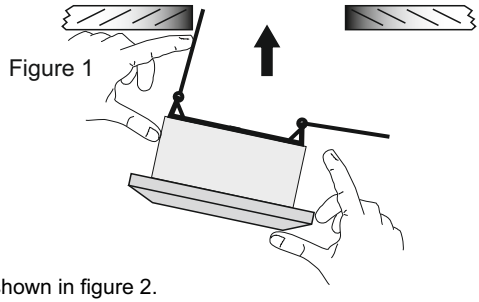
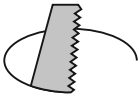


Figure 1


Ø110mm

**Step 2**
Push up the luminaire, as shown in figure 2.

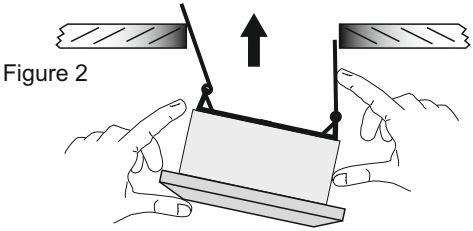


Figure 2

**Step 3**
Continue to push upwards until the lamp locks.

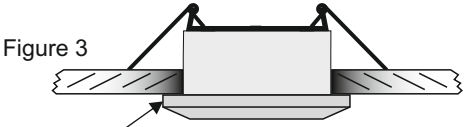


Figure 3

If you want to pull off the device, put a flat blade screwdriver, between the device and the ceiling.

**Surface mounting.**
Install the luminaire according to the following steps:
**Step 1.** Follow the step 1 of the installation instructions.
**Step 2.** Unfasten the retaining screw (Figure 4) and detach the part for suspended ceiling installation.
**Step 3.** Drill 2 holes on the base (Figure 5) using a 4mm drill bit in order to permit the retaining screws to pass. Mark these two drilled points on the required mounting location, drill the holes and install the supplied plastic plugs.
**Step 4.** Install the decorative rim (package included).
**Step 5. ATTENTION!!** In order to sustain the IP 65 rating, fit the washer on to the screw and then fit the insulation ring that is included in the package (Figure 6). Next, use these 2 fasteners to install the unit to the require location. Finally install perimetrically the waterproofing gasket (package included).
**Step 6.** Follow the steps 2,3 and 4 of the installation instructions.

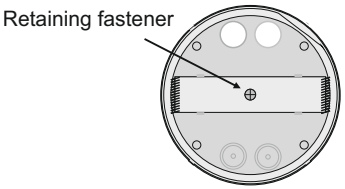


Figure 4

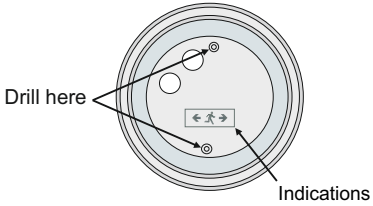


Figure 5

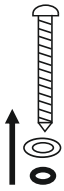


Figure 6

## Status of LEDs

| LEDs | Description of indication |
|---|---|
| CHARGE | ◎: Battery charging, ●: battery charged, ○: disconnected or unfunctional battery |
| LAMP FAULT | ◎: Operation check, ●: lamp fault, ○: normal operation |
| BATT. FAULT | ◎: Autonomy test, ●: battery fault, ○: normal operation |
| Note | ◎: Blinking, ●: constantly on, ○: off |

**Important notice for the installed luminaires in one area !!!**
The installer must connect the battery's connector first and then should power the luminaire.
The time between batteries connection must be, at least 1.5 minute.
With this variation, it is ensured that the non synchronized Automatic Autonomous Test for two or more luminaires installed in one area, is not conducted in the same day.

**Battery replacement.**
*It can be done only by a competent person and after the mains interruption.*
1. Remove the luminaire from the suspended ceiling (figure 3).
2. Follow the step 1 of the installation instructions.
3. Disconnect the connector and remove the old battery.
4. Connect the new battery with the same type (step 2 of the installation instructions) and place it in the position of the old one.
5. Replace the removed parts (step 1 and 4) and power the device.

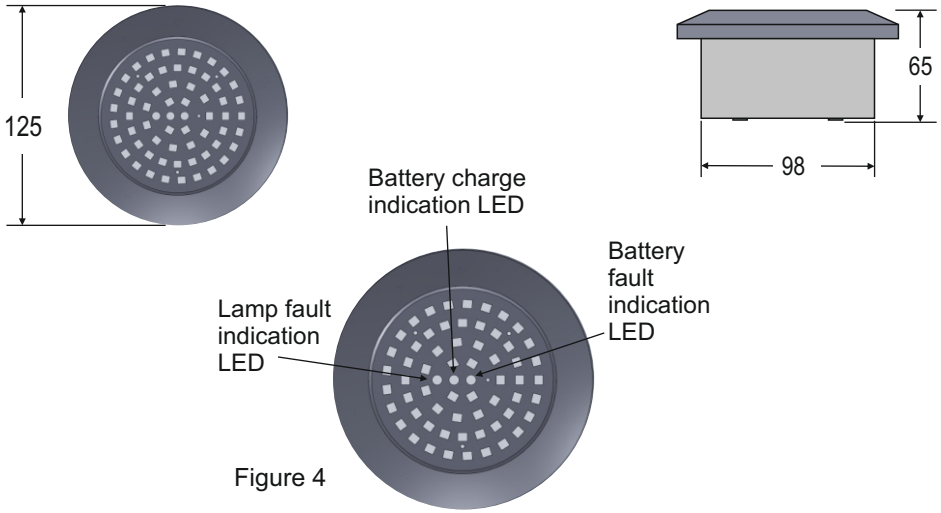


Figure 4

| LED MODULE CHARACTERISTICS | | |
|---|---|---|
| | **GR-298/60L/90/WP** | **GR-298/30L/180/WP** |
| Manufacturer | Olympia Electronics S.A | |
| Model Number | 0402159/60L | 0402159/30L |
| Voltage Range | 14.1-17.5VDC | |
| Nominal Power | 4W | 2W |
| Connections | Non reversible connection between main pcb and led module | |
| Temperature (tc) | 45 °C max. across the board | |

**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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