

WATERPROOF SELF TESTING NON-MAINTAINED EMERGENCY CEILING MOUNTED LUMINAIRES



TECHNICAL CHARACTERISTICS *(for LED MODULE specifications see page 5)*

	GR-290/WP/M	GR-291/WP/M	GR-292/WP/M	GR-293/WP/M
OPERATION VOLTAGE	220-240V AC / 50-60Hz			
MAXIMUM POWER CONSUMPTION	4.3W / 4.7 VA			
BATTERY (NiMH)	4.8V/1.2Ah			
INSULATION BETWEEN SUPPLY & CONTROL TERMINALS	Basic insulation			
BATTERY PROTECTION	Deep discharge and overcharge protection			
INDICATIONS - CONTROLS	Charge, lamp fault, battery fault			
CHARGE TIME	24 hours			
MINIMUM DURATION	1.5 hour			3 hours
LIGHT SOURCE	1 white power LED			
EMERGENCY ILLUMINATION	300lm			150lm
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			
EXTERNAL DIMENSION	Ø125 x 65 mm			
WEIGHT	442gr.			
GUARANTEE	3 years (1 year for the battery)			

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GENERAL

This device is used indoors (ta 40°C) in places where emergency luminaires are needed. Each device must be permanently connected to mains power supply. The luminaires GR-290/WP/M and GR-292/WP/M are suitable for corridors lighting and the GR-291/WP/M and GR-293/WP/M for open area lighting. In normal operation the battery is charging. In case of a mains power supply failure, the device enters emergency mode and the illumination LED turns on. 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. 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 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 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 the 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, maintenance or testing must be done by authorized personnel 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.**

Connection to module (After request)

This luminaire 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 3 of the installation procedure in page 3. Also refer to the user's manual of each module for additional information.

NOTE: LED= Light Emitting Diode

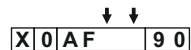
LABELING EXPLANATION:

- X:** Self contained
- 0:** Non maintained (*)
- A:** Including test device
- B:** Including remote test mode
- C:** Including inhibiting mode
- F:** Automatic test gear complying with IEC 61347-2-7 denoted EL-T
- 90:** 1.5 hour duration
- 180:** 3 hour 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 turns on illumination source, only in case of

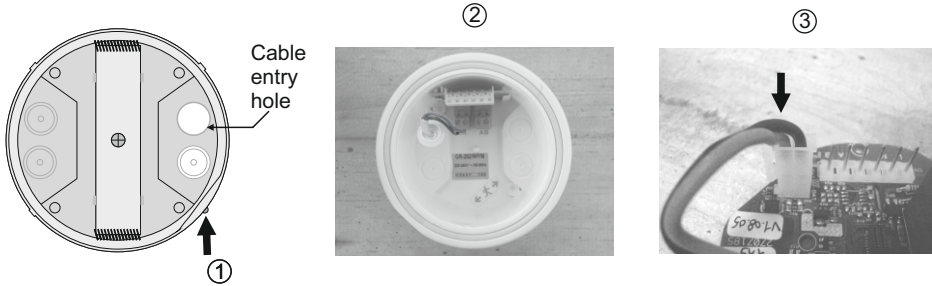
Note!! If a module will be used (except the fault relay module), then the installer should fill in, on the specification label, the letters **B** and **C**.



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

INSTALLATION INSTRUCTIONS



- 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 rating).** 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. Detach the power terminal, connect the wires as shown in the picture and attach the power terminal (10A max). If you use a module pass the 2 signal cables on the A, B terminals Minding the correct polarity. Depending on the module that will be used, the cables that will be used, have different names. In A, signal +L, C are also connected, while signals -L, NC/NO in the terminal B.
- 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 for at least 24 hours in order to completely charge the battery. The rated autonomy duration can be achieved after that time.

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.

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.

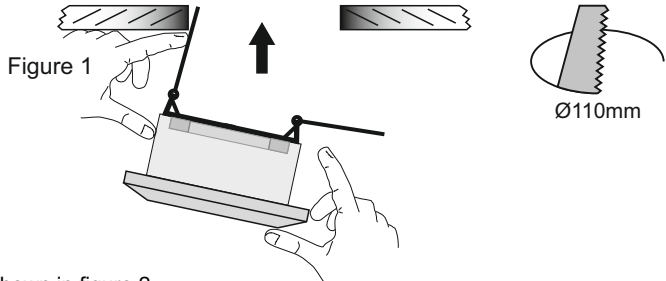
With this variation, it is ensured that the non synchronized Automatic Autonomous Test for two or more luminaires installed in one area, is not conducted in the same day.

MOUNTING THE LAMP IN SUSPENDED CEILING

Set up the lamp to the suspended ceiling as it is shown below (*Required opening 110mm*):

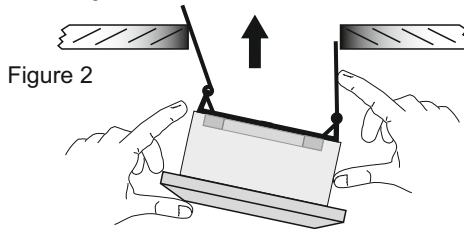
Step 1

Bend the springs, to get into the hole of the suspended ceiling, as you can see to the next figure.



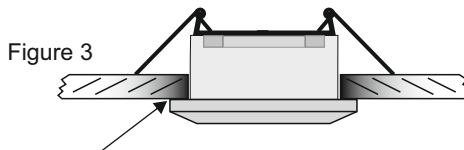
Step 2

Push up the luminaire, as shown in figure 2.



Step 3

Continue to push upwards until the lamp locks.



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

SURFACE MOUNTING

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 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. **ATTENTION!!** Especially for the **GR-290/WP/M** and **GR-292/WP/M** luminaire installation on the ceiling you must align the base with the indications on the luminaire's base (Figure 5).

Step 4. WARNING!! To preserve the IP 65 rating, fit the screws with the metallic washer and plastic ring which are included. Next use the screw to fasten the unit to the surface (Figure 6).

Step 5. Install the decorative rim (package included). Next, use the 2 fasteners to install the unit to the require location.

Step 6. Follow the step3 of the installation instructions.

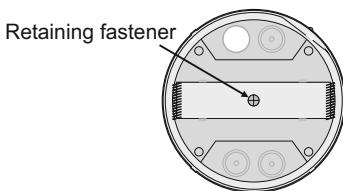


Figure 4

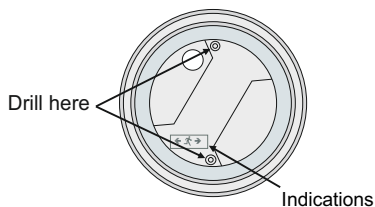


Figure 5

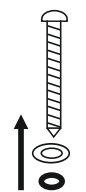


Figure 6

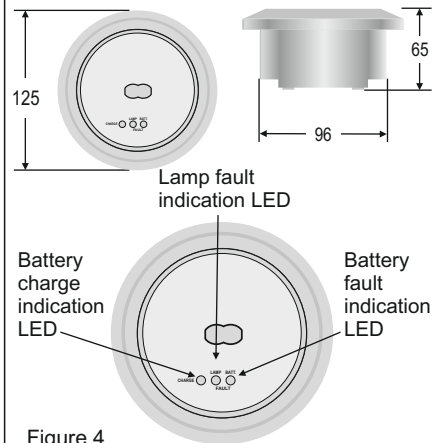
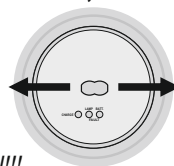


Figure 4

GR-290/WP/M, GR-292/WP/M

Corridor lighting



ATTENTION!!!

During installation follow this light direction.

GR-291/WP/M, GR-293/WP/M

Open area lighting



LED MODULE CHARACTERISTICS				
	GR-290/WP/M	GR-291/WP/M	GR-292/WP/M	GR-293/WP/M
Manufacturer	Olympia Electronics S.A.			
Model Number	0405185			
Voltage Range	3-3,2V DC			
Nominal Power	1,3W			
Connections	fixed connection between main pcb and led module			
Temperature (tc)	60 °C max. across the board			



CAUTION : Do not view directly with bare eyes.



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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