

SELF TESTING NON-MAINTAINED EMERGENCY CEILING MOUNTED LUMINAIRES



TECHNICAL CHARACTERISTICS (for LED MODULE specifications see page 2)

	GR-292/M/HL	GR-293/M/HL
OPERATION VOLTAGE	220-240V AC / 50-60Hz	
MAX. SUPPLY CURRENT	19.5mAAC	
MAXIMUM POWER CONSUMPTION	4.9W / 5.2 VA	
MINIMUM POWER FACTOR (λ)	0.9	
U-OUT	6V	
BATTERY	4.8V/4Ah, NiMH (4KRMT 23/62)	
INSULATION BETWEEN SUPPLY & CONTROL TERMINALS	Basic insulation	
INSULATION BETWEEN SUPPLY & BATTERY CIRCUIT	Basic insulation	
WORKING VOLTAGE AT WHICH THE INSULATION IS DESIGNED	500V	
BATTERY PROTECTION	Deep discharge and overcharge protection	
BATTERY VOLTAGE RANGE	4-6V	
BATTERY SUPPLY CURRENT DURING EMERGENCY	(Vbat=4.8V):650mA	
BATTERY CHARGE CURRENT RANGE	130 - 200mA (normal charge) / 20 - 30mA (trickle charge)	
BATTERY DISCHARGE CURRENT RANGE	550 - 730mA	
INDICATIONS - CONTROLS	Charge, lamp fault, battery fault, TEST button	
CHARGE TIME	24 hours	
MINIMUM DURATION	3 hours	
LIGHT SOURCE	1 white power LED	
EMERGENCY ILLUMINATION	330lm	
DEGREES OF COVER PROTECTION	IP20	
IMPACT RESISTANCE IK	IK08	
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	
Prated/Irated	2.3W/760mA	
CONTROL GEAR MAX.TEMPERATURE (tc)	80°C at Q2	
RELATIVE HUMIDITY	Up to 95%	
CONSTRUCTION MATERIAL	ABS/PC	
EXTERNAL DIMENSION	Ø125 x 72 mm	
WEIGHT	737gr.	
GUARANTEE	3 years (1 year for the battery)	
CONTROL GEAR WITH AUTOMATIC TEST FUNCTION	EL-T	
Controlgear is suitable for LED module only		
The controlgear has mains-connected windings of transformer		

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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 GR-292/M/HL is suitable for corridors lighting and the GR-293/M/HL 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.

Manual Test

This test can be done by pushing the test button. The light source and the emergency circuit of the device are monitored. The manual test can be conducted only if the main power supply and the battery are 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

This test monitors the device's back up operation and emergency duration. The BATTERY FAULT LED blinks during the test, indicating this process to the user. This test is conducted automatically every six months. In order to be performed, the mains power supply should be connected and the battery must be 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 turns on continuously indicating that the battery must be replaced.

Resetting Errors

Push the Test button for >10 seconds, to delete all the indicated LED errors. Then the device enters regular operation mode.

Test Switch

Pressing the test switch less than 5 seconds will initiate a light source test (last for 3 secs). If the test switch is pressed for more than 10 seconds, the device will be reset (delete all errors).

ATTENTION!!!

1. Operations for installation or maintainance 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.**

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

180: 3 hour duration

X0AF180

(*) **Non Maintained operation:** The luminaire turns on illumination source, only in case of power supply failure.

Connectors:

CN1: Power supply & communication signals

CN2: Non user connector

CN3: Non user connector

CN5: Battery connector

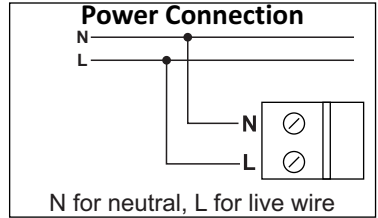
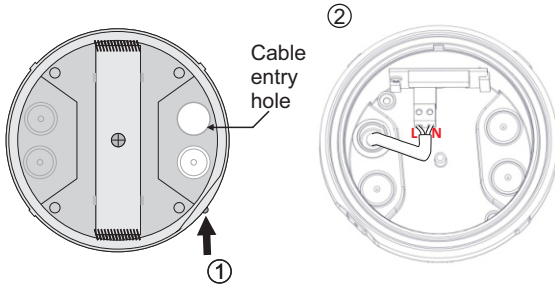
Status of LEDs

LEDs	Description of indication
CHARGE	Battery charging, battery charged, disconnected battery
LAMP FAULT	Operation check, lamp fault, normal operation
BATT. FAULT	Autonomy test, autonomy fault, normal operation
Note	Blinking, constantly on, off

LED MODULE CHARACTERISTICS

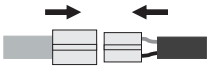
	GR-292/M/HL	GR-293/M/HL
Manufacturer	Olympia Electronics S.A.	
Model Number	0212195	
Voltage Range	2.7-3.3V DC	
Nominal Power	2.3W	
Connections	Non reversible connection between main pcb and led module	
Temperature (tc)	75 °C max. across the board	
LED Module Type	BUILT IN	

INSTALLATION INSTRUCTIONS



④

Battery Connection



BEWARE of electric shock after reflector removal. Plastic base could contain live parts if connected to mains supply.

Initial installation

1. Untighten the screw 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).** Make a hole in the center of the gasket 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). Supply voltage polarity is irrelevant.
3. Refit the reflector (mind the correct orientation), tighten the screw securely and the luminaire is ready for mounting.
4. Place the battery's connector to the corresponding connector of the luminaire.
5. Mount the luminaire on the ceiling.

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 pack 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 on page 4).
2. Remove the battery pack from the suspended ceiling.
3. Disconnect the connector and remove the old battery pack.
4. Connect the new battery pack (step 4 of the installation instructions) and place it in the position of the old one.
5. Place the removed parts back 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.

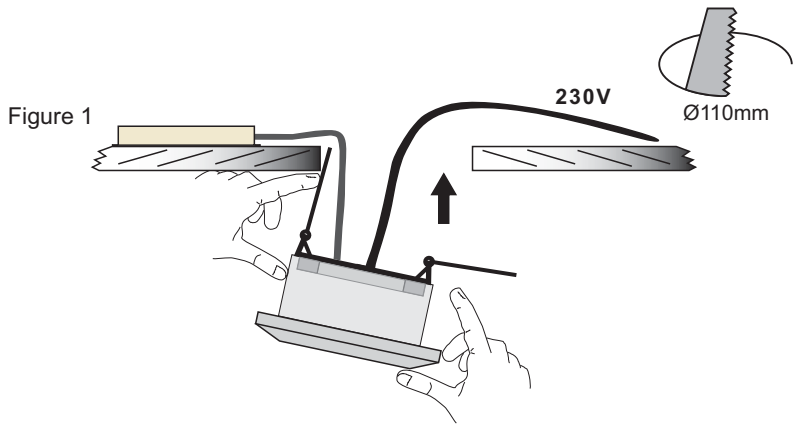
With this variation, it is ensured that the non synchronized Automatic Autonomous Test for two or more luminaires installed in one area, is not conducted in the same day.

Mounting the lamp in suspended ceiling.

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

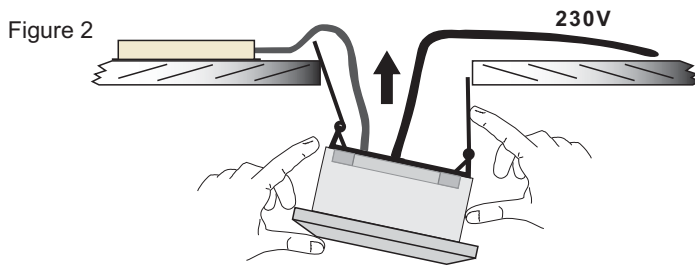
Step 1

Pass the battery pack into the ceiling then bend the springs, to get into the hole of the suspended ceiling, as you can see to the next figure.



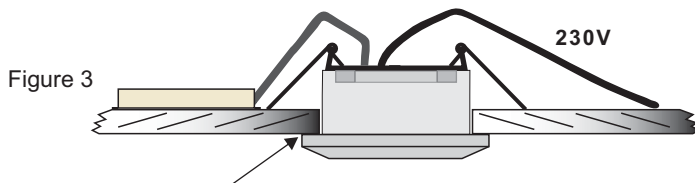
Step 2

Push up the luminaire, as shown in figure 2.



Step 3

Continue to push upwards until the lamp locks.

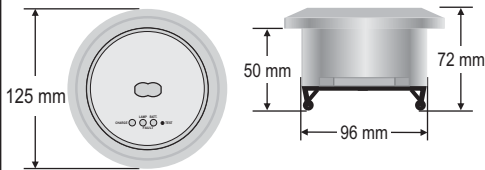


If you want to pull off the device, put a flat blade screwdriver, between the device and the ceiling.

NOTE: The length of the battery pack cable is 70 cm.



CAUTION : Do not view directly with bare eyes.



Lamp fault indication LED

Battery charge indication LED

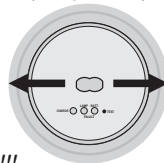
Battery fault indication LED

Test button

Figure 4

GR-292/M/HL (Escape Route)

Corridor lighting

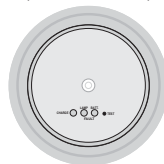


ATTENTION!!!

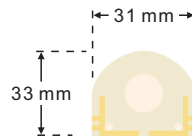
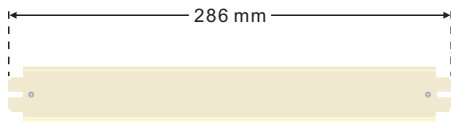
During installation follow this light direction.

GR-293/M/HL (Anti-Panic Area)

Open area lighting



A-290/BAT



Do NOT stare at operating light source. The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 0.4m is not expected. $E_{thr} = 718 \text{ lux}$.



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 deflection. 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.com

info@olympia-electronics.gr