European manufacturer

olympia electronics
SAFETY & SECURITY SYSTEMS
for a safer world!

ADDRESSABLE SELF TESTING NON-MAINTAINED EMERGENCY CEILING MOUNTED LUMINAIRES

CE

TECHNICAL CHARACTERISTICS *(for LED MODULE specifications see page 8)*

	GR-292/M/HL/ADR	GR-293/M/HL/ADR
OPERATION VOLTAGE	220-240V AC / 50-60Hz	
MAX. SUPPLY CURRENT	19.5mA AC	
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	
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		

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 lux.

Thank you for your trust in our products
Olympia Electronics - European manufacturer

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

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 charge failure due to shortcut

The recharging device will recharge the battery normally after the short circuit is removed and the batterie(s) are reinstalled.

Battery Cut-off

The device enters this mode when the mains power supply has failed and battery has lost its

energy. During this mode the device enters in idle state and battery consumption is negligible, in order to be protected from deep discharge.

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.

Addressable communication

The luminaire has the ability to be connected to GR-6500 panel. In order to do so, the luminaire's address has to be unique in the same bus. For more details see page 3 (installation instruction).

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

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
B: Including remote test mode
C: Including inhibiting mode
F: Automatic test gear complying with IEC 61347-2-7 denoted EL-T
180: 3 hour duration

X	0	A	B	C	F	1	8	0

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 power supply failure.

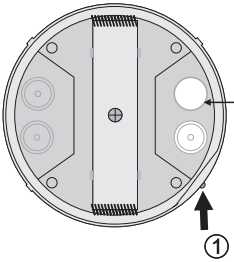
Connectors:

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

INSTALLATION INSTRUCTIONS

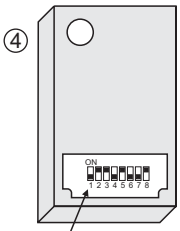


②

Power Connection

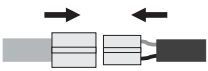
③

Communication Connection



⑥

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 Drill a hole and pass the 2 signal cables on the A, B terminals minding the correct polarity.

④ Set the luminaire's address through the DIP switch. See table at pages 5 to 7.

⑤ Refit the reflector (mind the correct orientation), tighten the screw securely and the luminaire is ready for mounting.

⑥ Place the battery's connector to the corresponding connector of the luminaire.

⑦ 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.

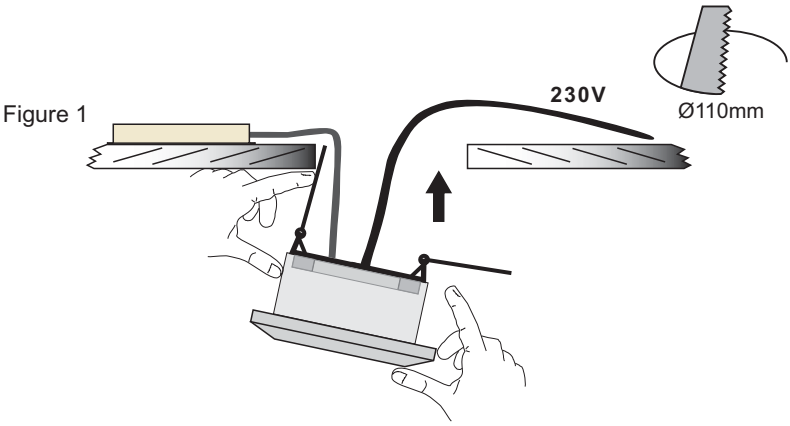
1. Remove the luminaire from the suspended ceiling (figure 3 on page 4).
2. Remove the battery pack from the suspended ceiling.
3. Disconnect the connector and remove the old battery pack.
4. Connect the new battery pack (step 4 of the installation instructions) and place it in the position of the old 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)*:

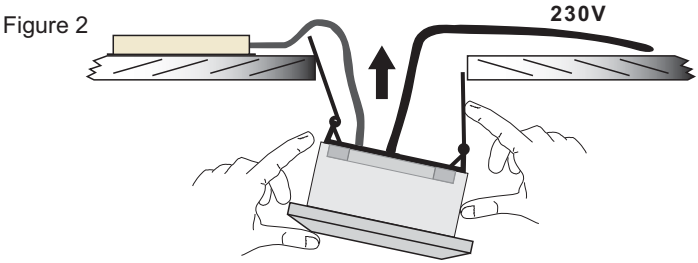
Step 1
Pass the battery pack into the ceiling then bend the springs, to get into the hole of the suspended ceiling, as you can see to the next figure.

Figure 1



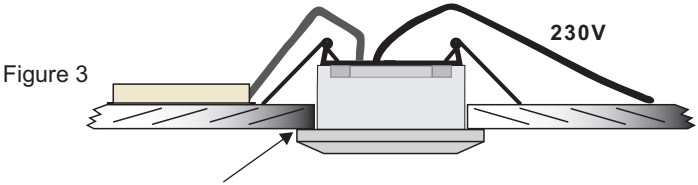
Step 2
Push up the luminaire, as shown in figure 2.

Figure 2



Step 3
Continue to push upwards until the lamp locks.

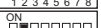
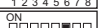
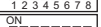
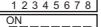
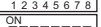
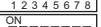
Figure 3



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

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

CAUTION : Do not view directly with bare eyes.

Address	Dipswitch setting	Address	Dipswitch setting	Address	Dipswitch setting	Address	Dipswitch setting
1		31		61		91	
2		32		62		92	
3		33		63		93	
4		34		64		94	
5		35		65		95	
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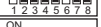
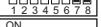
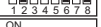
7		37		67		97	
8		38		68		98	
9		39		69		99	
10		40		70		100	
11		41		71		101	
12		42		72		102	
13		43		73		103	
14		44		74		104	
15		45		75		105	
16		46		76		106	
17		47		77		107	
18		48		78		108	
19		49		79		109	
20		50		80		110	
21		51		81		111	
22		52		82		112	
23		53		83		113	
24		54		84		114	
25		55		85		115	
26		56		86		116	
27		57		87		117	
28		58		88		118	
29		59		89		119	
30		60		90		120	

Address	Dipswitch setting	Address	Dipswitch setting	Address	Dipswitch setting	Address	Dipswitch setting
121		151		181		211	
122		152		182		212	
123		153		183		213	
124		154		184		214	
125		155		185		215	
126		156		186		216	
127		157		187		217	
128		158		188		218	
129		159		189		219	
130		160		190		220	
131		161		191		221	
132		162		192		222	
133		163		193		223	
134		164		194		224	
135		165		195		225	
136		166		196		226	
137		167		197		227	
138		168		198		228	
139		169		199		229	
140		170		200		230	
141		171		201		231	
142		172		202		232	
143		173		203		233	
144		174		204		234	
145		175		205		235	
146		176		206		236	
147		177		207		237	
148		178		208		238	
149		179		209		239	
150		180		210		240	

Address	Dipswitch setting
241	
242	
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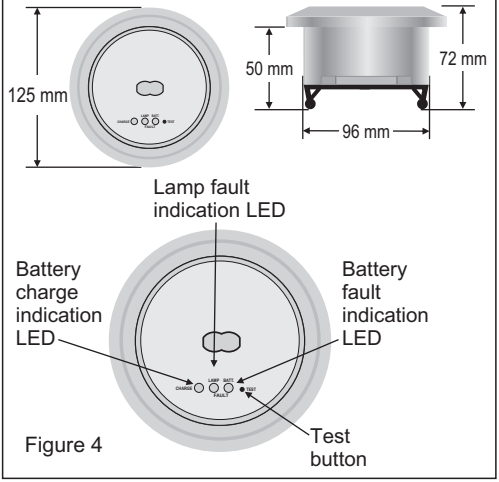
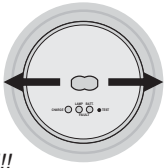


Figure 4

GR-292/M/HL/ADR

(Escape Route)

Corridor lighting

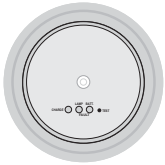


ATTENTION!!!
During installation follow this light direction.

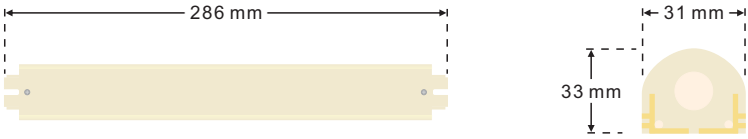
GR-293/M/HL/ADR

(Anti-Panic Area)

Open area lighting



A-290/BAT



LED MODULE CHARACTERISTICS		
	GR-292/M/HL/ADR	GR-293/M/HL/ADR
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 	

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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