

# SELF TESTING MAINTAINED EMERGENCY LUMINAIRES



## TECHNICAL CHARACTERISTICS *(for LED MODULE Specs. see page 5)*

	GR-421/12L	GR-421/24L	GR-423/12L	GR-423/24L
OPERATION VOLTAGE	220-240V AC/50-60Hz			
MAXIMUM POWER CONSUMPTION	3W/6.5VA	4W/7VA	3W/6.5VA	4W/7VA
BATTERY (Ni-Cd)	3.6V/0.6Ah		3.6V/1Ah	
BATTERY PROTECTION	From overcharge and deep discharge			
INDICATIONS - CONTROLS	Charge, lamp fault, fault indication LED, TEST button			
CHARGING TIME	24h			
MINIMUM AUTONOMOUS DURATION	90min		180min	
ILLUMINATION SOURCE	12 white LEDs	24 white LEDs	12 white LEDs	24 white LEDs
ILLUMINATION (230V / EMERGENCY)	100lm / 100lm	200lm / 200lm	100lm / 100lm	200lm / 200lm
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	Bayblend FR3010, transparent polycarbonate			
EXTERNAL DIMENSIONS	272 x 121 x 50 mm			
TYPICAL WEIGHT	470gr.	480gr.		560gr.
GUARANTEE	3 years (1 year for the battery)			

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### GENERAL

These luminaires are used indoors (ta 40°C) where emergency light is needed.

Each luminaire must be permanently connected to mains power supply.

In normal operation the led strip lights and the battery is charging.

In case of a mains power supply failure the luminaire will light the led strip automatically in emergency mode. When the mains power supply is restored the device turns to normal operation.

### Battery Cut-off

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

### Battery Charging

The battery charging is completely controled. 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.

### Manual Test

The manual test can be conducted only if the mains power supply and the battery is connected. By pressing the test button briefly an operation test is initiated. 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

The Automatic Autonomous Test is conducted and measures the luminaire's back up operation. This test is conducted automatically every six months. In order to be performed, the mains power supply and the battery should be connected (the battery should be charged). If the battery is not charged, the test is postponed until the battery is completely charged. If during the Automatic Autonomous Test the luminaire's duration is lower than the nominal, then 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 first page. During emergency mode, a LED strip test is also performed.

## Resetting Errors

Push the Test button for 5 seconds, to delete all the indicated LED errors. Then the luminaire enters regular operation mode.

**Indication LED status (with connected mains power supply).**

### AC Charge

**On:** Charge current OK.

**Off:** No battery (No charging current or disconnected battery).

### Lamp Fault

**On:** Faulty LED strip.

**Off:** LED strip OK.

### Battery Fault

**Off:** Battery OK.

**Blink (With AC Charge LED ON):** Autonomy or low battery problem

**(the battery must be replaced).**

**Blink (With AC Charge LED Off):**

No charging current or disconnected battery.

## 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. In case of battery or light source replacement, these must be replaced by 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 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 and 3 of the installation procedure.

2. Disconnect the connector and remove the old battery.

3. Connect the new battery with the same type (step 5 of the installation procedure) and place it in the position of the old one.

4. Follow the step 7 of the installation procedure and power the device.

## INSTALLATION

To install the luminaire follow the installation instructions on page 5.

## WARRANTY

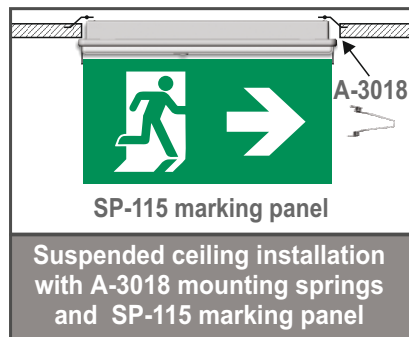
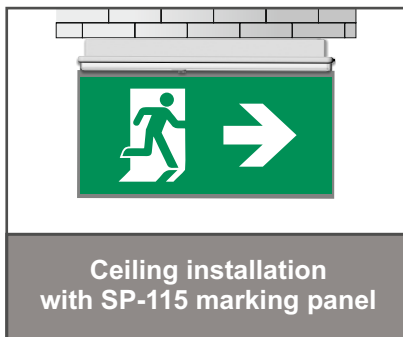
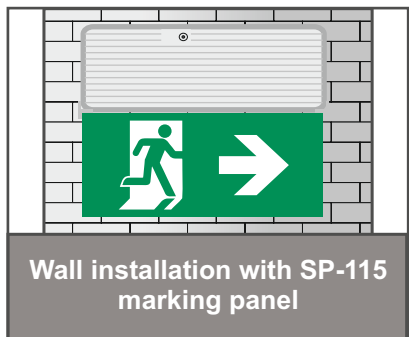
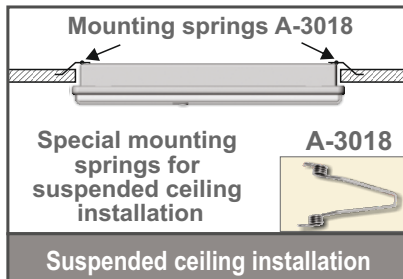
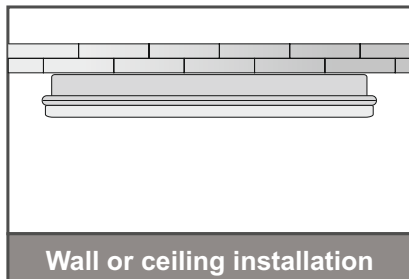
Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical 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.

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## Installation methods



**NOTE:** LED= Light Emitting Diode

**LABELING EXPLANATION:**

**X:** Self contained

**1:** Maintained (\*)

**A:** Including test device

**G:** Internally illuminated safety sign

**\*90:** 1.5 hour duration

**180:** 3 hours duration

Note!! The installer should fill in, on the specification label, the letter **G** if the luminaire is used as a safety sign.

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X	1	A	G	*	9	0
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(\*) Maintained operation: The luminaire lights its illumination source, when it is powered by the mains power supply or not.

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

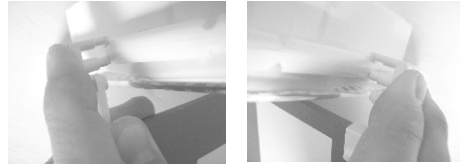
### **MARKING PANEL SP-115**

A marking panel SP-115 can be installed on the luminaire in 3 different locations. This marking panel is installed perpendicular to the diffuser of the luminaire, as shown in the pictures below. The panel is pre-printed and has a plastic accessory on each side that is used to fasten the panel to the luminaires. There are 2 arrow stickers that can be placed in each side of the marking panel to point to the desired direction.



### **Placing the SP-115 marking panel**

Place the plastic mounting accessories of the marking panel as shown in pictures.



### **Mounting methods**

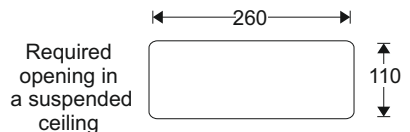
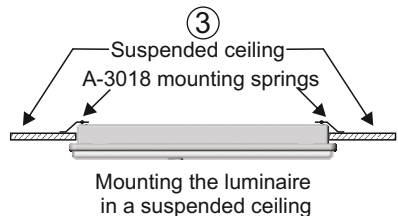
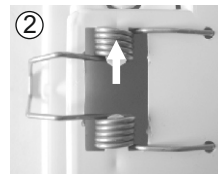
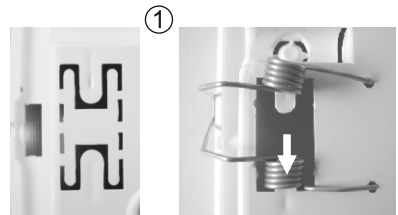
All luminaires, can be mounted either surface or in suspended ceilings.

### **Suspended ceiling installation.**

On the bottom of the base plastic of the luminaire there are two H shaped cut outs. These are used to install the A-3018 mounting springs.

1. With a sharp tool remove the appropriate plastic pieces to fit the mounting springs. First place the edges of the mounting spring to the respective holes and install the one end of the coil to the support axis.
2. Install the other end of the coil to the other support axis.
3. Bend the springs and place the luminaire to the respective suspended ceiling's hole.

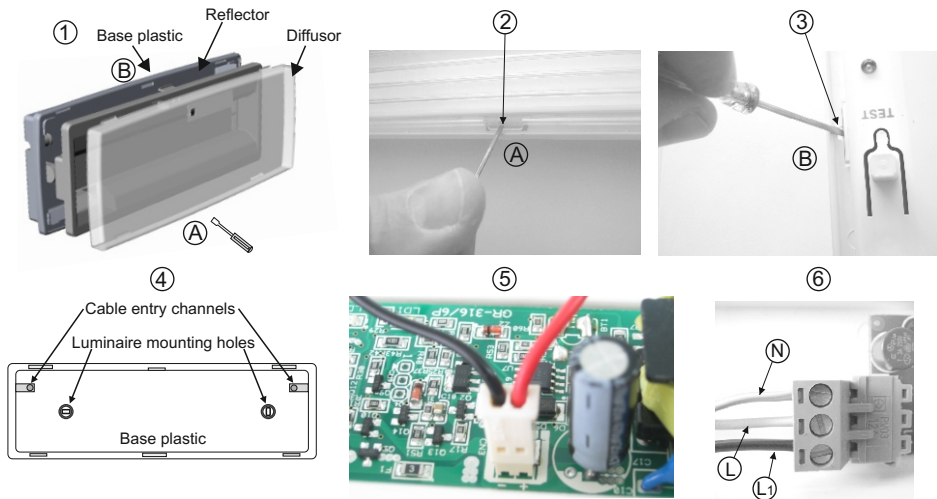
*The luminaire's placement to the suspended ceiling must be done after the connection with power supply cables.*



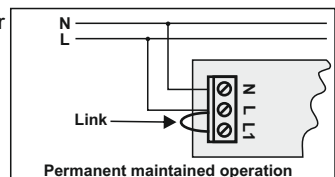
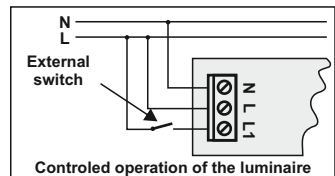
*The light source contained in this luminaire shall only be replaced by the manufacturer, or his agent, or a similar qualified person.*

**NOTE!** *The light source is non-user replaceable.*

## INSTALLATION INSTRUCTIONS



- ① To install the luminaire you must dismantle it to 3 parts.
- ② Place a flat blade screwdriver in the area **A** to release the diffuser's plastic hook.
- ③ Place a flat blade screwdriver in the area **B** to release the reflector's plastic hook.
- ④ Use the included mounting parts to mount the base plastic. Pass the mains cable through a cable entry channel. The luminaire must be connected to a permanent electrical installation to ensure the immobilization of the cable.
- ⑤ Place the battery's connector to the corresponding connector on the P.C.B.
- ⑥ Connect the mains cables to the respective detachable terminal block. N for neutral, L for live wire and L1 for the maintained operation. The L1 wire can be connected to an external switch to control the maintained or non maintained operation of the luminaire.  
For permanent maintained operation use two wires to power the luminaire, N for neutral and L for live wire, and link the L and L1.
- ⑦ Refit the removed parts in steps 2 and 3 (mind the correct orientation) and the luminaire is ready to operate.



### NOTE!!

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

LED MODULE CHARACTERISTICS				
	GR-421/12L	GR-423/12L	GR-421/24L	GR-423/24L
Manufacturer	Olympia Electronics S.A.			
Model Number	0803123		0703123	
Voltage Range	8.7-10.8 V DC			
Nominal Power	0.78W		1.56W	
Connections	Cable connection between main pcb and led module			
Temperature (tc)	45 °C max. across the board			