

## SELF TESTING MAINTAINED EMERGENCY LUMINAIRES



| TECHNICAL CHARACTERISTICS       | GR-423/12L/MAR  | GR-423/24L/MAR |
|---------------------------------|---|----------------|
| OPERATION VOLTAGE               | 220-240V AC/50-60Hz   |                |
| MAXIMUM POWER CONSUMPTION       | 3W / 6.5VA  | 4W / 7VA       |
| BATTERIES (Ni-Cd)               | 3.6V/1Ah  | 3.6V/2Ah(NiMH) |
| BATTERY PROTECTION              | From overcharge and full discharge  |                |
| INDICATIONS - CONTROLS          | Charge, lamp fault, fault indication LED, TEST button                                   |                |
| CHARGING TIME                   | 24h   |                |
| MINIMUM AUTONOMOUS DURATION     | 180min  |                |
| ILLUMINATION SOURCE             | 12 white LED's  | 24 white LED's |
| ILLUMINATION (230V / EMERGENCY) | 85/85lm   | 170/170lm      |
| DEGREES OF COVER PROTECTION     | IP 42   |                |
| PRODUCED IN ACCORDANCE WITH     | EN 60598-1, EN 60598-2-22, 55015, 61547, 61000-3-2, 61000-3-3, IEC 60092-306, IEC 60533 |                |
| 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                  | 480gr.  | 560gr.         |
| GUARANTEE                       | 3 years (1 year for the battery)  |                |

Thank you for purchasing this product of Olympia Electronics. A European manufacturer.

### GENERAL

These luminaires are suitable for marine and offshore applications 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.

### INSTALLATION

To install the luminaire follow the installation instructions on page 4.

### 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.

### 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.

### Manual Test

The manual test can be conducted only if the main 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 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 main 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 main 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 extinguish all the indicated LED errors. Then the luminaire enters regular operation mode.

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

#### Charge

**On:** Good charge current.

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

#### Lamp Fault

**n:** Faulty LED strip.

**Off:** Good LED strip.

#### Battery Fault

**ff:** Battery OK.

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

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

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

No charging current or disconnected battery.

### !!!

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 thru 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.**



### Mounting methods

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

### Suspended ceiling installation.

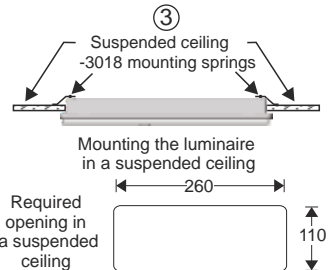
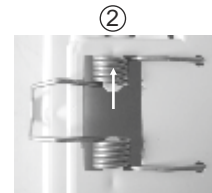
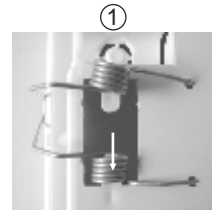
On the bottom of the base plastic of the luminaire there are two H shaped cut outs. These are used to install the A-3018 mounting springs.

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.*

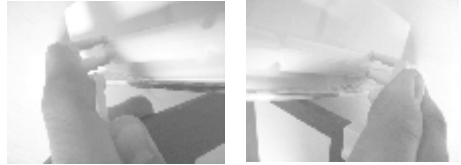


### **MARKING PANEL SP-115**

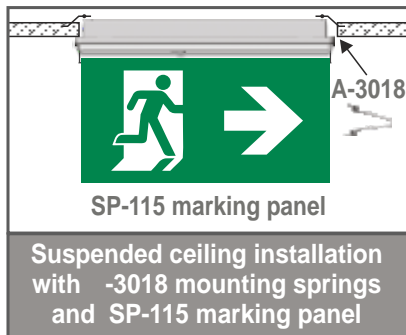
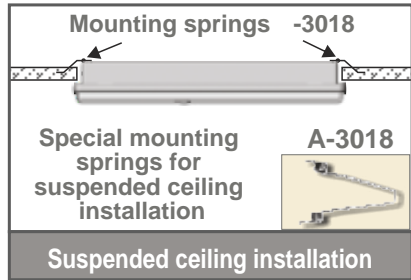
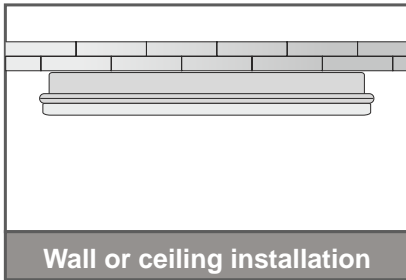
A marking panel SP-115 can be installed on the luminaire in 3 different locations. This marking panel is installed perpendicular to the diffuser of the luminaire, as shown in the pictures below. The panel is pre-printed and has a plastic accessory on each side that is used to fasten the panel to the 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**

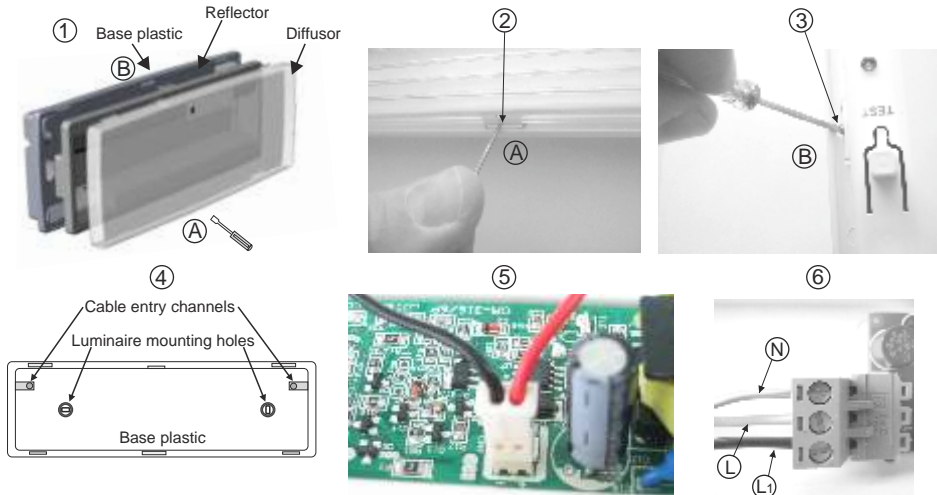
Place the plastic mounting accessories of the marking panel as shown in pictures.



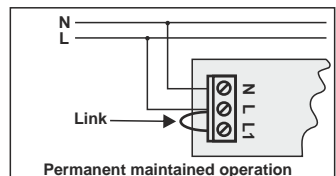
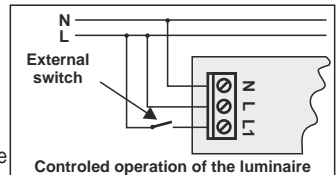
### **Installation methods**



## INSTALLATION INSTRUCTIONS



- ① To install the luminaire you must dismantle it into 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. **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, **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.**

### 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.

**NOTE:** LED= Light Emitting Diode

### LABELING EXPLANATION:

**X:** Self contained **1:** Maintained (\*) **A:** Including test device **180:** 180min 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 lights its illumination source, only in a power supply failure.