



for a safer world

SELF TESTING MAINTAINED EMERGENCY LUMINAIRES WITH WHITE POWER LEDs



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

| | GR-315/4P/A | GR-315/6P/A | GR-316/4P/A | GR-316/6P/A |
|------------------------------------|---|---------------|---------------|-----------------|
| OPERATION VOLTAGE | 220-240V AC/50-60Hz | | | |
| MAXIMUM POWER CONSUMPTION | 4.7W/5.1VA | 6.2W/6.5VA | 5.3W/5.7VA | 6.2W/6.5VA |
| BATTERIES (Ni-Cd) | 4.8V/1.5Ah | 4.8V/3Ah | | 4.8V/4Ah (NiMH) |
| BATTERY PROTECTION | From overcharge and deep discharge | | | |
| INDICATIONS - CONTROLS | Charge, Lamp Fault, Battery Fault indication LED, TEST Button | | | |
| CHARGING TIME | 24h | | | |
| MINIMUM AUTONOMOUS DURATION | 90min | | 180min | |
| ILLUMINATION SOURCE | 4 power LEDs | 6 power LEDs | 4 power LEDs | 6 power LEDs |
| ILLUMINATION (230V AC / emergency) | 175lm / 350lm | 245lm / 480lm | 175lm / 350lm | 245lm / 480lm |
| DEGREES OF COVER PROTECTION | IP 40 | | | |
| 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 | ABS, PC / PC | | | |
| EXTERNAL DIMENSIONS | 353 x 143 x 57 mm | | | |
| TYPICAL WEIGHT | 790gr. | 880gr. | | 920gr. |
| GUARANTEE | 3 years (1 year for the battery) | | | |

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

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 (L1 connected to L) 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 (powered by its battery). When the mains power supply is restored the device turns to normal operation.

Battery Charging

The battery charging is completely controlled. In this case, the best possible battery maintenance is achieved, 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 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 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 technical characteristics. 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).

Charge

On: Good charge current.

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

Lamp Fault with L1 connected to L

On (with LED strip off): Faulty LED strip (must be replaced).

On (with LED strip on): Problem in the back up circuit of the LED strip (must be checked by an authorized personnel).

Off: Good LED strip.

Battery Fault

Off: 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.

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 lamp 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.**

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 defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

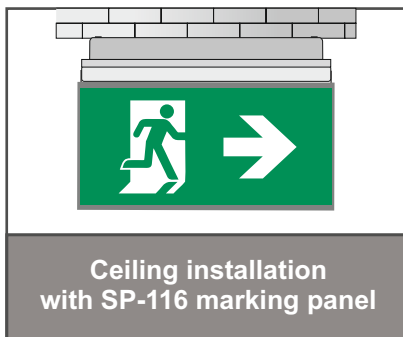
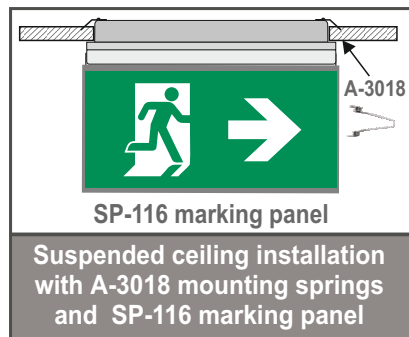
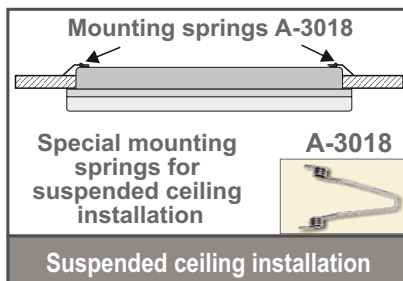
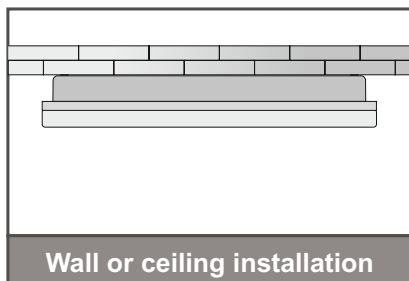
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INSTALLATION METHODS



NOTE: LED= Light Emitting Diode
LABELING EXPLANATION:

- X:** Self contained
- 1:** Maintained (*)
- A:** Including test device
- G:** Internally illuminated
- *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.

↓

| | | | | | |
|---|---|---|---|---|----|
| X | 1 | A | G | * | 90 |
|---|---|---|---|---|----|

(*) 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.

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.

MARKING PANEL SP-116

A marking panel SP-116 can be installed on the luminaire in 3 different locations. This marking panel is installed perpendicular to the diffusor 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 luminaire. The following panels are available after request.



Placing the SP-116 marking panel

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



Mounting methods

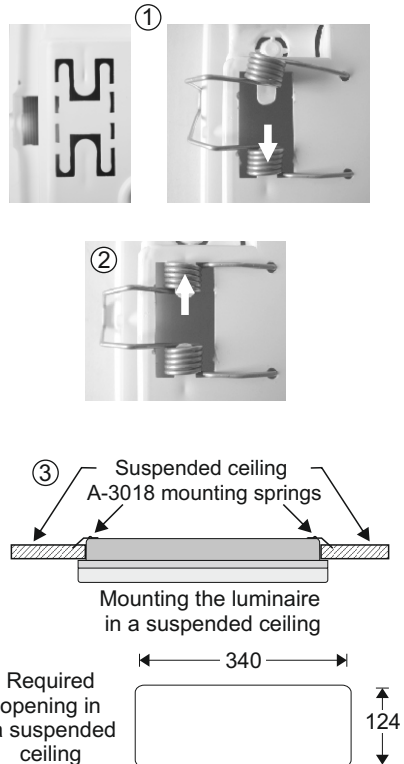
The luminaire can be surface mounted on walls or ceilings or in suspended ceilings. For suspended ceilings installations, the A-3018 special accessories are required which can be found in the catalog and must be ordered separately.

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. *Note! The luminaire is not suitable for mounting on tubular materials or surfaces.*

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.

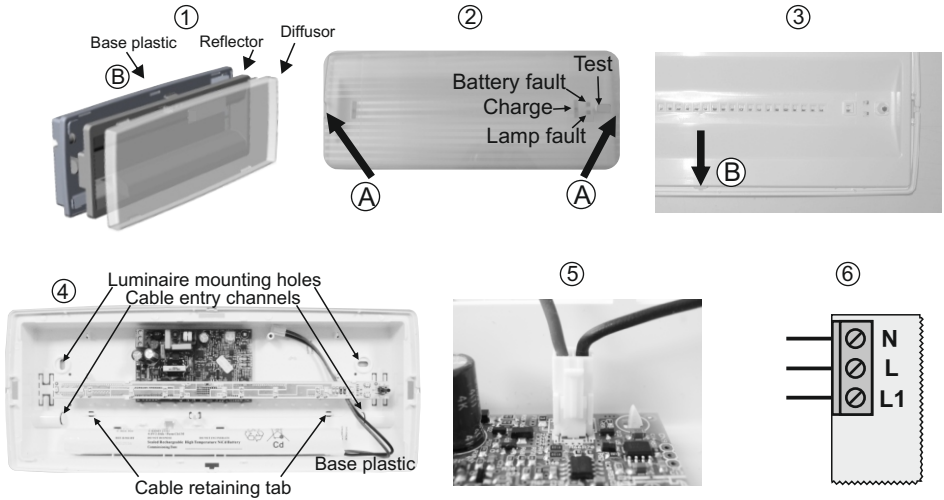
The luminaire's placement to the suspended ceiling must be done after the connection with power supply cables.



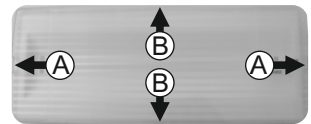
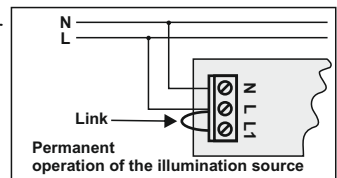
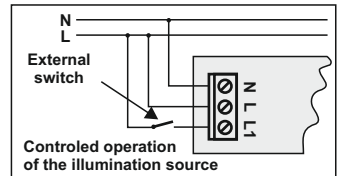
The light source contained in this luminaire shall only be replaced by the manufacturer, or his agent, or a similar qualified person.

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

INSTALLATION INSTRUCTIONS



- ① To install the luminaire you must dismantle it into 3 parts.
- ② Place a flat blade screwdriver in the area **A** to release the diffusor'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 and fasten it to the respective cable retaining tab, with the included tie.
- 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 (especially for the diffusor, first press the points A, A and then the points B, B to apply the plastic hooks) 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-315/4P/A | GR-316/4P/A | GR-315/6P/A | GR-316/6P/A |
| Manufacturer | Olympia Electronics S.A | | | |
| Model Number | 3110153/4P | | 3110153/6P | |
| Voltage Range | 11.6-13.6 V DC | | | |
| Nominal Power | 4W | | 6W | |
| Connections | Non reversible connection between main pcb and led module | | | |
| Temperature (tc) | 65 °C max. across the board | | | |