

SELF TESTING MAINTAINED EMERGENCY LUMINAIRES WITH WHITE LED's



TECHNICAL CHARACTERISTICS <i>FOR LED MODULE SPECS. see page 3</i>	GR-315/15L/A	GR-315/30L/A	GR-316/15L/A	GR-316/30L/A
OPERATION VOLTAGE	220-240V AC/50-60Hz			
MAXIMUM POWER CONSUMPTION	3.4W/3.8VA	4.5W/4.9VA	3.3W/3.7VA	5.3W/5.6VA
BATTERY (Ni-MH)	3.6V/0.6Ah		3.6V/1.5Ah	
BATTERY PROTECTION	From overcharge and full discharge			
INDICATIONS - CONTROLS	Charge, lamp fault, Battery fault indication LED, TEST button			
CHARGING TIME	24h			
MINIMUM AUTONOMOUS DURATION	90min		180min	
ILLUMINATION SOURCE	15 white LED's	30 white LED's	15 white LED's	30 white LED's
ILLUMINATION (MAINS / EMERGENCY)	105lm / 105lm	210lm / 210lm	105lm / 105lm	210lm / 210lm
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	Bayblend FR3010, transparent polycarbonate			
EXTERNAL DIMENSIONS	353 x 143 x 57 mm			
TYPICAL WEIGHT	670gr.	750gr.		820gr.
GUARANTEE	3 years (1 year for the battery)			

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

INSTALLATION

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

Battery Charging

The battery charging is completely controlled. Thereby, 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

This test can be done by pressing the test button. The light source and the emergency

circuit of the device is monitored. The manual test can be conducted only if the main power supply and the battery is 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 main power supply and the battery should be connected.

Automatic Autonomous Test

The Automatic Autonomous Test is conducted and measures the device's back up operation and emergency duration. This test is conducted automatically every 6 months. In order to be performed, the main power supply and the battery should be connected and 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 nominal then the battery fault led turned on continuously and 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 technical characteristics. During emergency mode, a light source test is also performed.

Resetting Errors

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

Indication LED status (with connected mains power supply).

Charge

On: Good charge condition.

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

Lamp Fault

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.

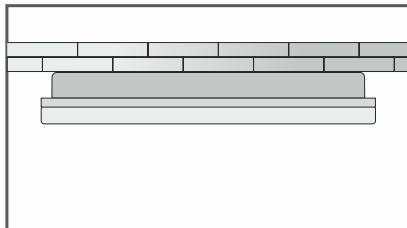
ATTENTION!!!

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 on 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.**

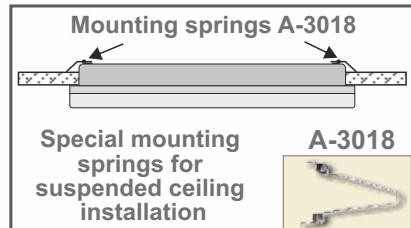


The light source contained in this luminaire shall only be replaced by the manufacturer, or his agent, or a similar qualified person.

Installation methods



Wall or ceiling installation



Mounting springs A-3018

Special mounting springs for suspended ceiling installation

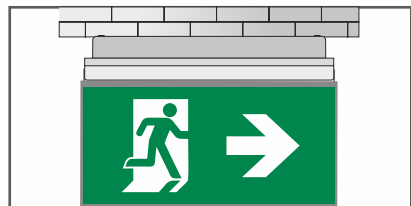
A-3018

Suspended ceiling installation



SP-116 marking panel

Suspended ceiling installation with A-3018 mounting springs and SP-116 marking panel



Ceiling installation with SP-116 marking panel

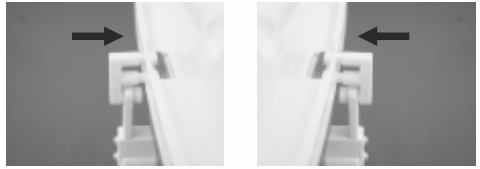
MARKING PANEL SP-116

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

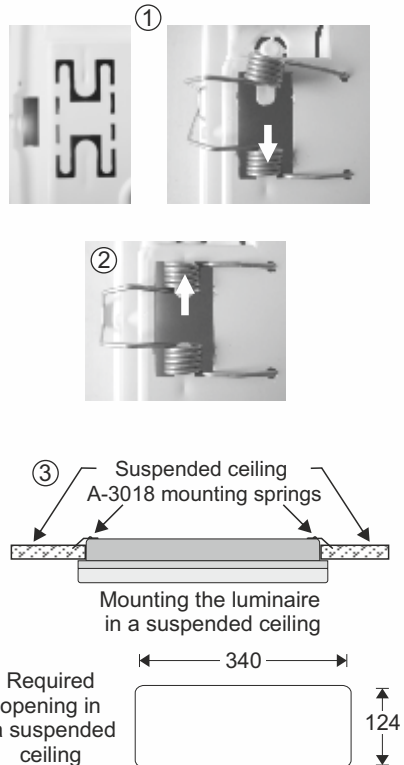
The luminaire can be surface mounted on walls or ceilings or in suspended ceilings. For suspended ceilings installations, the A-3018 special accessories are required which can be found in the catalog and must be ordered separately.

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.

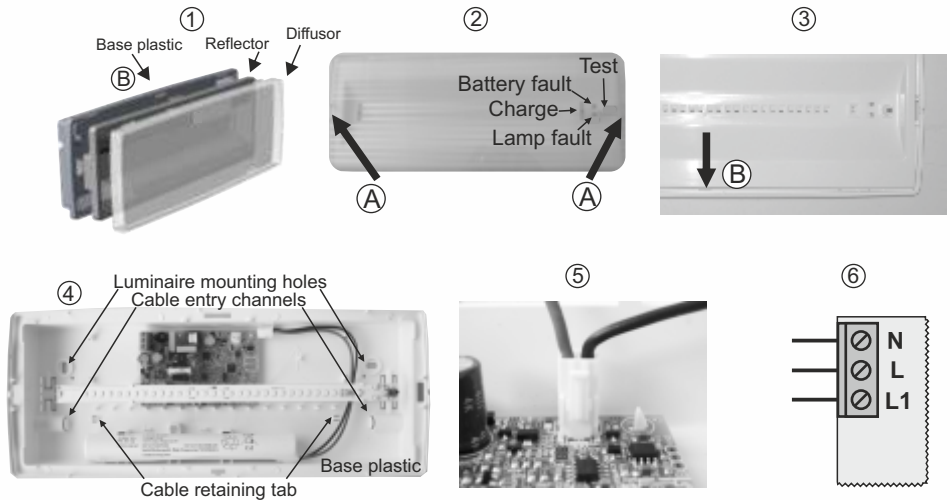
The luminaire's placement to the suspended ceiling must be done after the connection with power supply cables.



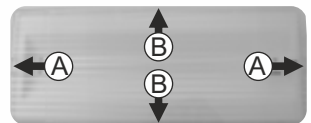
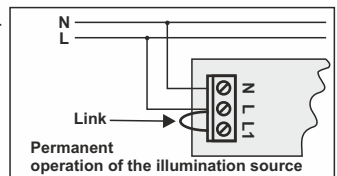
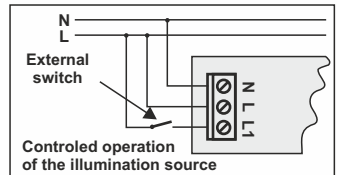
NOTE!! After finishing the installation you must power the luminaire at least for 24 hours for battery charging to perform the nominal autonomy.

LED MODULE CHARACTERISTICS	GR-315/15L/A	GR-315/30L/A	GR-316/15L/A	GR-316/30L/A
Manufacturer	olympia electronics S.A			
Model Number	0404153/15L	0404153/30L	0404153/15L	0404153/30L
Voltage Range	8,5-10,5 V DC			
Nominal Power	980mW	2W	980mW	2W
Connections	fixed connection between main pcb and led module			
Temperature (tc)	47 °C max. across the board			

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 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 diffuser, 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: LED= Light Emitting Diode
LABELING EXPLANATION:

X: Self contained
1: Maintained (*)
A: Including test device
***90:** 1.5 hour duration
180: 3 hour 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 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.