SAAR CERT TÜV CERTIFICATE VALID SYSTEM EN ISO 9001 : 2008

High Quality European based Manufacturers

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SELF-TESTING MAINTAINED EMERGENCY LUMINAIRES

CE

TECHNICAL CHARACTERISTICS	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		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	90min		180min	
ILLUMINATION SOURCE	12 white LED's	24 white LED's	12 white LED's	24 white LED's
ILLUMINATION (230V / EMERGENCY)	85/85lm	170/170lm	85/85lm	170/170lm
DEGREES OF COVER PROTECTION	IP 42			
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	0 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)			

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 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 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 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 named, 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).

AC Charge

On: Good charge current.

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

Lamp fault

On: faulty LED strip.

Off: Good LED strip.

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, maintainance or testing must be done by authorized personel 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.

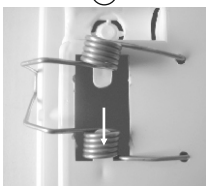
1. With a sharp tool remove the appropriate plastic pieces to fit the mounting springs. First place the edges of the mounting spring to the respective holes and install the one end of the coil to the support axis.

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.

①



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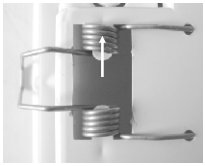

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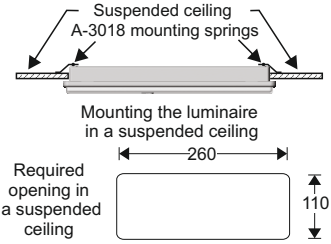


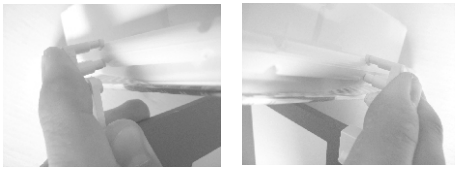
MARKING PANEL SP-115

A marking panel SP-115 can be installed on the luminaire in 3 different locations. This marking panel is installed perpendicular to the 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 luminaires.

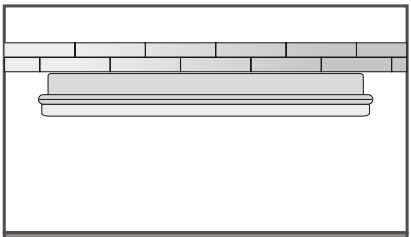
There are 2 arrow stickers that can be placed in each side of the marking panel to point to the desired direction.

Placing the SP-115 marking panel

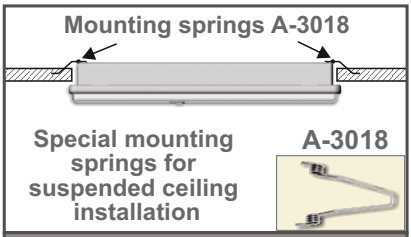
Place the plastic mounting accessories of the marking panel as shown in pictures.



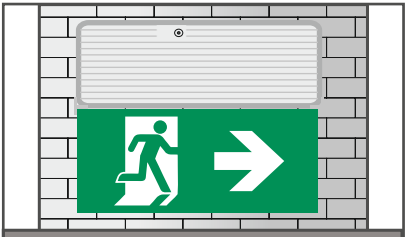
Installation methods



Wall or ceiling installation



Suspended ceiling installation

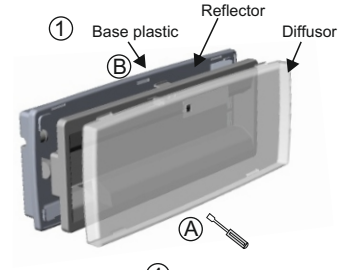


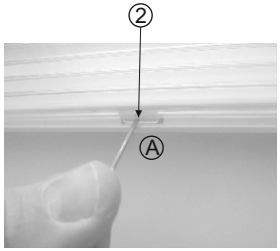
Wall installation with SP-115 marking panel

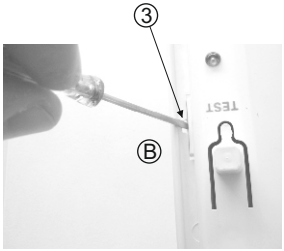
Ceiling installation with SP-115 marking panel

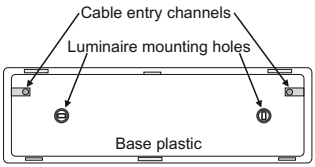
Suspended ceiling installation with A-3018 mounting springs and SP-115 marking panel

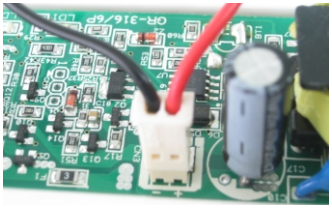
INSTALLATION INSTRUCTIONS

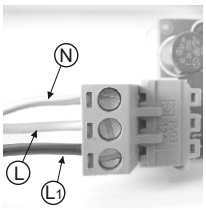




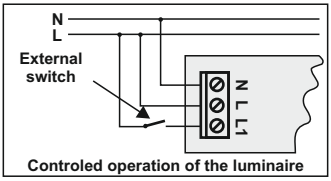


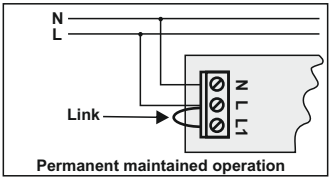






① To install the luminaire you must dismantle it to 3 parts.
② Place a flat blade screwdriver in the area **A** to release the diffusor's plastic hook.
③ Place a flat blade screwdriver in the area **B** to release the reflector's plastic hook.
④ Use the included mounting parts to mount the base plastic. Pass the mains cable thru 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 named 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
***90: 90min duration**
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.