

## Battery Replacement

It can be done only by a competent person and after the mains interruption.

1. Follow step 1 of the installation instructions and remove the diffusor.
2. Follow step 2 of the installation instructions and remove the reflector.
3. Remove the old battery and place a new one of the same type and characteristics.
4. Replace the removed parts (previous steps 1 and 2).

**NOTE:** LED= Light Emitting Diode

**LABELING EXPLANATION:**

X: Self contained

1: Maintained operation (\*)

A: Including test device

E: With non-replacable lamp(s) and/or battery

F: Automatic test gear complying with IEC 61347-2-7 denoted EL-T

90: 1.5 hour duration

180: 3 hours 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 mains power supply's failure.

X 1 A E F 1 8 0

## ATTENTION!!!

The light source of this luminaire is not replaceable when the light source reaches its end of life the whole luminaire shall be replaced.



CAUTION : Do not view directly with bare eyes.

## Technical Characteristics

	SLL-1011	SLL-1013	SLL-1021	SLL-1023
OPERATION VOLTAGE	220-240V AC / 50-60Hz			
MAXIMUM POWER CONSUMPTION	11W / 11.4VA			
SUPPLY CURRENT	52mA			
U-OUT	23V			
Prated	5W			
Irated	350mA			
MAX OPEN CIRCUIT VOLTAGE	23V			
WIRE CROSS SECTION	0.5mm <sup>2</sup> - 2.5mm <sup>2</sup>			
MINIMUM POWER FACTOR	0.94			
BATTERY (Ni-Cd)	4.8V/3Ah		4.8V/6Ah	
INSULATION BETWEEN SUPPLY & CONTROL TERMINALS	Basic insulation			
INSULATION BETWEEN SUPPLY & BATTERY CIRCUIT	Basic insulation			
BATTERY PROTECTION	Deep discharge and overcharge protection / the control gear will recharge the battery normally after the test of 22.3			
MIN MAX. DISCHARGE VOLTAGE	4 - 6V			
MIN MAX. DISCHARGE CURRENT	1000 - 1350mA			
MIN MAX. CHARGE CURRENT	360 - 410mA			
TRICKLE CHARGE VOLTAGE/CURRENT	5.7V / 80mA			
MAX CHARGE VOLTAGE	6V			
INDICATIONS	LED Charge, Lamp Fault LED, Battery Fault LED			
CHARGE TIME	24 hours			
MINIMUM DURATION	1.5 hour	3 hours	1.5 hour	3 hours
LIGHT SOURCE	5 power LEDs			
LIGHT SOURCE LUMINOUS FLUX (MAINS / EMERGENCY)	630lm / 800lm			
LUMINOUS FLUX (MAINS / EMERGENCY)	560lm / 640lm			
DEGREES OF COVER PROTECTION	IP40			
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			
CONTROL GEAR MAX.TEMPERATURE: tc	74 °C at Z3			
RELATIVE HUMIDITY	Up to 95%			
CONSTRUCTION MATERIAL	ABS/PC, PC			
EXTERNAL DIMENSION (L x W x H)	322 x 162 x 58 mm			
WEIGHT	1054gr.	1333gr.	1054gr.	1333gr.
GUARANTEE	3 years (1 year for the battery)			
CONTROL GEAR WITH AUTOMATIC TEST FUNCTION	<b>EL-T</b>			

## LED Characteristics

	SLL-1011	SLL-1013	SLL-1021	SLL-1023
MANUFACTURER	Olympia Electronics S.A.			
MODEL NUMBER	1503195			
VOLTAGE RANGE	13.7-13.9V DC			
NOMINAL POWER	5W			
CONNECTIONS	Fixed connection between main pcb and led module			
TEMPERATURE (tc)	75 °C max. across the board			

## 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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SLL-1011 & SLL-1013



SLL-1021 & SLL-1023

**SLL-1011, SLL-1013,  
SLL-1021 & SLL-1023**  
**SELFTESTING**  
**MAINTAINED/NON MAINTAINED**  
**EMERGENCY LUMINAIRES WITH LENS**  
**FOR ESCAPE ROUTE OR ANTIPANIC AREA**



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

## Package Contents

1	Luminaire
1	Surface mounting accessories
1	Decorative rim
1	Recess mounting accessories
1	Manual

## General

These devices are used indoors (ta 40°C) in places where emergency light is needed. The luminaires SLL-1021 and SLL-1023 are suitable for corridors lighting and the SLL-1011 and SLL-1013 for open area lighting. Each device must be permanently connected to mains power supply. In normal operation the battery is charging. In case of a mains power supply failure, the device enters emergency mode and the illumination LED turns on. When the mains power supply is restored the device turns to normal operation.

### Battery Charging

The battery charging is completely controlled by microprocessor and is protected from complete discharge and overcharge.

### Battery Cut-off

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

### Automatic Operational Test

This test is conducted automatically every 15 days and lasts 3 seconds. In order to be performed, the mains power supply and the battery should be connected. The light source and the emergency circuit of the device are tested.

### Automatic Autonomy Test

The Automatic Autonomy Test tests the device's back up operation and emergency duration. This test is conducted automatically every 6 months and its duration is the stated autonomy duration of the luminaire. In order to be performed, the mains power supply should be connected and the battery must be 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 will permanently be on and the

battery must be replaced.

### Back Up Operation

The autonomy duration of battery during emergency mode must be at least as the one stated in the list of the technical characteristics. During emergency mode, a light source test is also performed.

### ATTENTION!!!

- Operations for installation, maintenance or testing must be done by authorized personnel only.
- The device must be connected to the mains power supply through a fuse that is dependent on the total line's power load.
- In case of battery replacement, it must be replaced by the same type, by the manufacturer or a competent person.
- In case of inactive use for a period greater than 2 months, disconnect the battery by pulling out the battery's connector.
- The control gear within this luminaire is a built in control gear which relies on the luminaire for protection against electric shock.
- The control gear is proof against supply voltage polarity reversal.
- This control gear has mains connected primary windings.
- It is not allowed to discard batteries into common trash bins, they must be discarded only in battery recycling points.**

**Do not incinerate.**

### Connectors

- KL1: Power connector
- KL2: Non user terminal
- CN4: Battery connector
- CN5: LED connector
- CN6: Non user connector
- CN7: Non user terminal

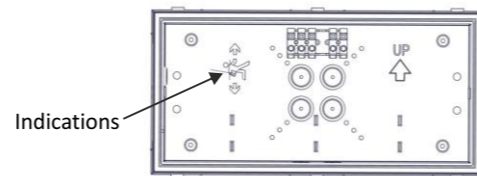
## Indications LED Status

CHARGE (green)	LAMP FAULT (red)	BATT. FAULT (yellow)	Description
			Charging
			Fully charged
			Battery fault or emergency mode
			Operational test
			Light source fault
			Autonomy test
			Duration fault

### Note:

	Permanently ON
	Blink
	Off
	Indifferent

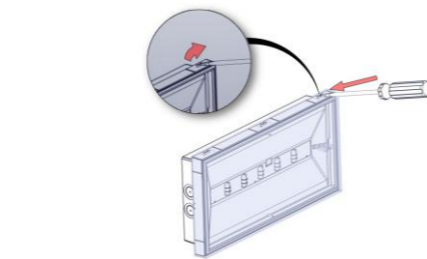
## Before Installation



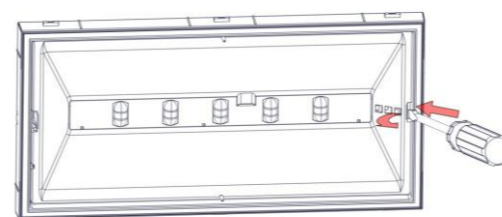
### ATTENTION!!

For SLL-1021 and SLL-1023 luminaires ceiling installation you must align the indication of the base with the desired direction of lumination.

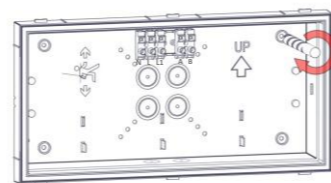
## Installation Instructions



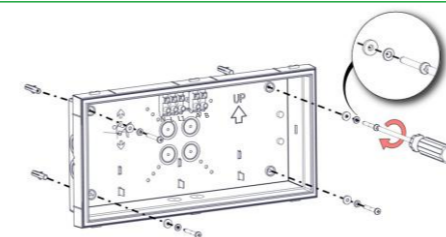
1



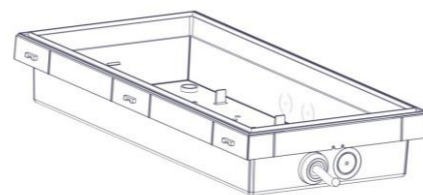
2



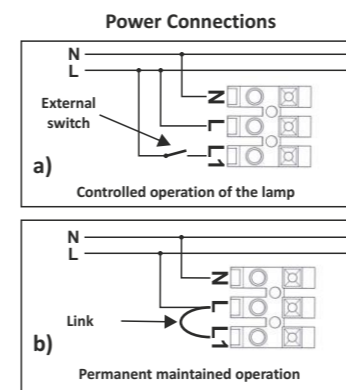
3



4



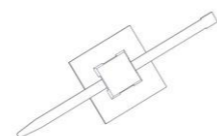
5



N for neutral, L for live wire and L1 for the maintained operation.

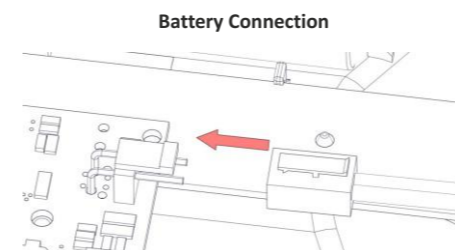
Always use in any case round mains cable, with a diameter of 5-10mm (H05RN-F type 2x1mm<sup>2</sup> or any other type, at least equal to it's mechanical and electrical properties). **ATTENTION!!** The cable must not be deformed in any way (This requirement is important to ensure the IP rating).

6

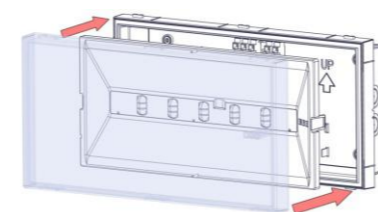


Install the included tie (if needed) to fasten securely the power cables.

7



8



9

This unit has replaceable batteries and contain replaceable address module that can be replaced or changed by the manufacturer or a competent person.

## Commissioning

- After installation, a 24 hours charging cycle must be completed, in order to achieve the nominal autonomy.
- During commissioning of the luminaire write the commissioning date on the battery.
- When power is applied to the unit inspect that the CHARGE indicator is either blinking or steady, all other indicators are OFF and that the led lamp is lit (maintained operation) or OFF (non-maintained operation)
- A full duration test should be conducted after verifying that the CHARGE indicator is continuously ON. Test is initiated by isolating the mains power supply. Verify that the LED lamp is lit during the test period for at least the stated duration.

## Mounting Methods

Sky Line luminaires can be mounted on ceilings. For these mounted installation, special accessories are included.

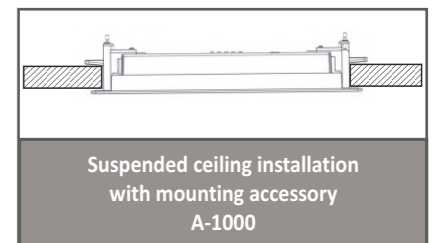


Ceiling installation

## Extra Mounting and Marking Methods \*

### Suspended installation with A-1000 accessory

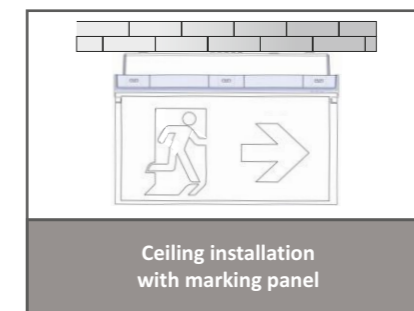
The luminaire can be installed in a suspended ceiling. For more information refer to the manual of A-1000.



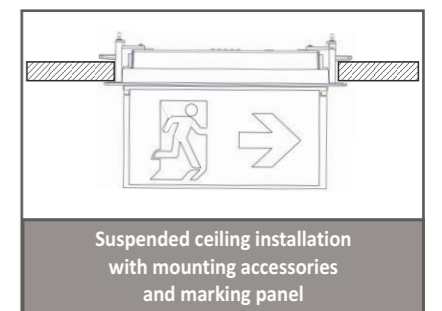
Suspended ceiling installation with mounting accessory A-1000

\* **ATTENTION!!!** The below markings can be done after request of the necessary accessories!!

A marking panel (SP-1000) can be installed on the luminaire pointing the desired direction.



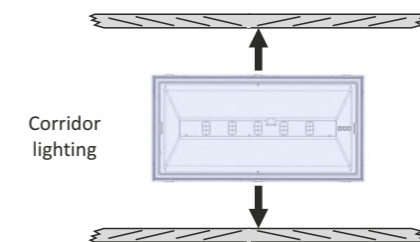
Ceiling installation with marking panel



Suspended ceiling installation with mounting accessories and marking panel

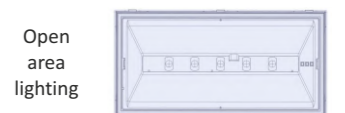
## Lens

### SLL-1021, SLL-1023



Corridor lighting

### SLL-1011, SLL-1013



Open area lighting

**ATTENTION!!!** During installation follow this light direction.