

SELF TESTING MAINTAINED EMERGENCY ILLUMINATION SIGNS WITH WIRELESS COMMUNICATION



TECHNICAL CHARACTERISTICS (for LED MODULE specifications see page 4)

	SLD-28/SP/M/WL	SLD-34/SP/M/WL	SLD-44/SP/M/WL
Mains voltage	220-240V AC/50-60Hz		
Maximum power consumption	2.7W / 3.9VA	3W / 4.2 VA	
TX/RX FREQUENCY RANGE	868.150-868.450MHz		
TX POWER	11dBm		
Battery (Ni-MH)	3.6V/1.5Ah		
Battery protection	Overcharging and deep discharging protection		
Indications	Charge LED, Lamp LED, Fault LED, Test Button		
Recharging time	24h		
Minimum emergency duration	3h		
Light source intensity (230V) / (emerg.)	100lm / 100lm	125lm / 125lm	
Degrees of cover protection	IP30		
Produced in accordance with	EN 60598-1, EN 60598-2-22, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3 EN 62311, ETSI EN 303 446-1 V1.1.0, ETSI EN 300 220-2 V3.1.1		
Operation temperature range	5 to 40 °C		
Relative humidity	up to 95%		
Construction materials	ABS/PC, aluminum, Acrylic plate		
Viewing distance	16m	30m	38m
External panel's dimensions	280x120x15mm	340x190x15mm	440x240x15mm
External unit's dimensions	289x65x34mm		
Typical weight	720gr.	1040gr.	1510gr.
Guarantee	3 years (1 year for the battery)		

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GENERAL

The luminaire consists mainly from two parts, the body, where all the electronics are located and the lamp-head where the indication sign and the high efficiency LEDs are located.

Maintained to non-maintained selection capability

The operation mode can be selected using the mode jumper CN4. Depending on the position of the jumper you can select (M) maintained operation (this is the default selection) and (NM) non maintained operation.

Manual Operational Test

The manual test can be conducted only if the mains power supply and the battery is connected. By pressing the test button briefly an operation test is initiated. During this test period Lamp Fault LED is blinking.

Manual Autonomy Test

A duration test can be conducted if the luminaire is fully charged and the TEST button is pressed from 5 to 10 seconds. The luminaire enters emergency mode, the charge LED is turned OFF and the Battery Fault led starts to

blink. The test is conducted until the battery is depleted. If at the end of the test the autonomy is low then the Battery Fault LED will stay ON. If the result of the test is good then the luminaire enters charging mode and the Charge led starts to blink until the batteries are fully charged.

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 mains power supply and the battery should be connected.

Automatic Autonomy Test

The Automatic Autonomous Test is conducted and measures the luminaire's back up operation. This test is conducted automatically every 6 months. In order to be performed, the mains 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.

Resetting Errors

Push the Test button for 10-15 seconds, to delete all the indicated LED errors. Then the luminaire enters regular operation mode.

Wireless communication

The WL luminaire models have the ability to communicate over the air with Olympia's control panels for wireless emergency luminaires. The luminaires can also communicate with a PC/laptop through a gateway (Ethernet, Wi-Fi, USB). For more information, please refer to Wireless Emergency Lighting guides, available on the company's website.

Indication LED status (with connected mains power supply).**Charge**

On: Fully charged.

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

Blink: Charging.

Lamp Fault

On: Faulty LED

Off: LED OK.

Blink: Operational Test is performed.

Battery Fault

Off: Battery OK.

ON (With Charge LED ON): Autonomy or low battery problem (the battery must be replaced).

Blink (With Charge LED Off): Autonomy test is performed.

NOTE: LED= Light Emitting Diode

LABELING EXPLANATION:

X: Self contained

1: Maintained (*)

A: Including test device

B: Including remote test mode

C: Including inhibiting mode

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

G: Internally illuminated

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 power supply's failure.

LED MODULE CHARACTERISTICS

	SLD-28/SP/M/WL	SLD-34/SP/M/WL	SLD-44/SP/M/WL
Manufacturer	Olympia Electronics S.A.		
Model Number	2103193	2203193	2303193
Voltage Range	12.9-13.3 V DC	13-13.8 V DC	
Nominal Power	460mW	600mW	
Connections	Cable connection between main pcb and led module		
Temperature (tc)	45 °C max. across the board	55 °C max. across the board	



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.*

Wireless Communication LED indications (interior)

The **top LED** (LD3-green) indicates the network connection status.

This LED may blink according to the following patterns:

1. Steady ON: The device has established direct connection to a Gateway device, and at least one more Gateway device is available for alternate routing (false condition).
2. Rapid flash [5 times/s]: The device has established direct connection to a single Gateway device.
3. Fast flash [2 times/s]: The device has established connection to a Router device and at least one more Router device is available on the same hop level, as an alternate route (redundant connection).
4. Moderate flash [1 second ON / 1 second OFF]: The device has established connection to a single Router device, and no alternatives exist on the same hop level.
5. No light: The device is disconnected.

The **middle LED** (LD2-green) indicates the received signal strength (RSSI) of the router module.

This LED may blink according to the following patterns:

1. Very fast flash [5 times/s]: received signal strength is excellent.
2. Fast flash [2 times/s]: received signal strength is good.
3. Moderate flash [1 second ON / 1 second OFF]: received signal strength is acceptable for reliable communication.
4. Very slow [2 seconds ON / 2 seconds OFF]: received signal strength is not acceptable for reliable communication, or no signal.

The **bottom LED** (LD1-red) indicates operation status.

This LED may blink according to the following patterns:

1. Very fast blink [5 times/s]: the module is not initialized correctly. In this case you have to press for more than 2 seconds the push button, in order to reset the module (loads default settings).
2. Moderate flash [2 times/s]: The module is properly operating.

Button functionality:

The on-board button has the two following functions:

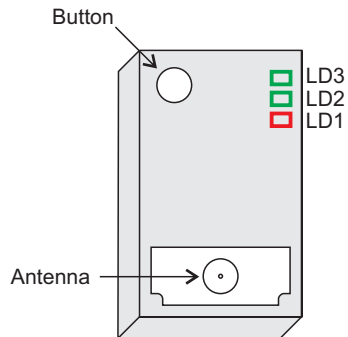
1. Short press (<2"): a status message will be sent to the Gateway device of the wireless network.
2. Long press (>2"): Loads factory default settings to the module.

Default settings (V1 Wireless System):

- SID: 00000001
- RF Channel: 13 (869.525MHz)

Default settings (V2 Wireless System):

- SID: 00000001
- NKEY: 00000000
- RF Channel: 2 (868.150MHz)



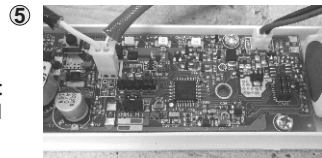
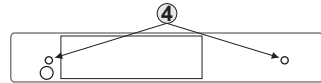
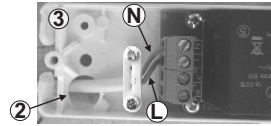
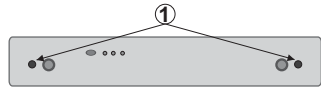
Installation instructions

In order to proceed, make sure that mains power supply is off.

1. Remove the front plastic cover by unscrewing the two retaining screws.
2. Pass the mains cables through the hole of the plastic base. Connect the live and the neutral wires to the terminal block, as shown in the picture.
3. Mount the device by installing the included mounting accessories in the holes or use the A-3018 mounting springs for suspended ceiling mounting.
4. Install the LED strip and battery connectors to the appropriate PCB connectors.
5. Refit the front plastic cover by screwing the two removed screws in step 1.
6. Power on the device.

NOTE!!

After finishing the installation you must power the device 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

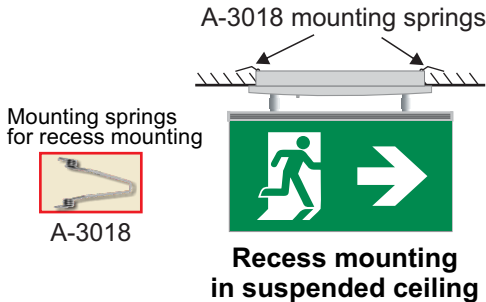
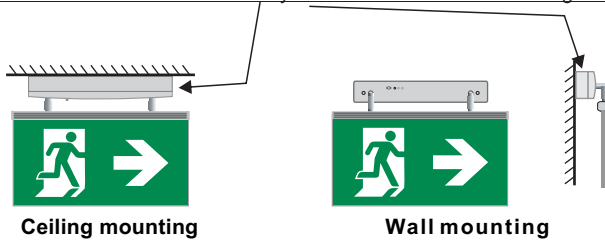
1. Follow the step 1 of the installation instructions.
2. Disconnect the connector and remove the old battery.
3. Connect the new battery with the same type (step 6 of the installation instructions) and place it in the position of the old one.
4. Replace the removed parts (step 7) and power the device.

General:

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 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 into common trash bins, they must be discarded only in battery recycling points.**
 **Do not incinerate.**

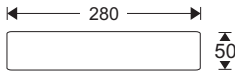
Mounting methods

When the device is mounted externally it can use the A-1028 mounting box.



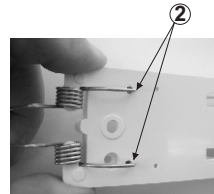
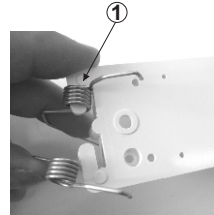
Recess mounting in suspended ceiling

In recess mounting installation the required opening is 280 x 50 mm. The material must withstand the luminaires weight.



Placing the mounting springs

A-3018



- ① Place one part of the mounting spring first and then the other one.
- ② Place the edges of the mounting spring as shown in picture.

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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