

SELF-TESTING MAINTAINED EMERGENCY ILLUMINATION SIGNS FOR SHIPS



TECHNICAL CHARACTERISTICS	ZLD-28/EM/MAR	ZLD-34/EM/MAR	ZLD-44/EM/MAR
Mains voltage	220-240V AC/50-60Hz		
Maximum power consumption	3.8W / 6.5VA	4W / 6.7VA	4.3W / 6.9VA
Battery (Ni-MH)	3.6V/1.5Ah		
Battery protection	Overcharging and full discharging protection		
Indications	Charge LED, Lamp Fault LED, Fault LED		
Recharging time	24h		
Minimum emergency duration	3h		
Light source intensity (230V) / (emerg.)	125lm / 125lm	145lm / 125lm	170lm / 125lm
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, EN 1838, IEC 60092-306, IEC 60533		
Operation temperature range	0 to 40 °C		
Relative humidity	up to 95%		
Construction materials	Aluminum, plexiglas		
External dimensions (LxWxH)	290x172x38mm	350x242x38mm	450x275x38mm
Typical weight	760gr.	1125gr.	1565gr.
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 on ships (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 (powered by its battery). When the mains power supply is restored the device turns to normal operation.

Installation

To install the illumination sign you must follow the installation instructions on pages 2 and 3.

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.

Changing the operating mode

Press and hold the TEST button for more than 5 seconds, the luminaire will erase first the errors (3 LED indicators will light in succession) and after 2 seconds the LED Lamp Fault will remain lit steadily. When the TEST button is released, the

luminaire will change between maintained or non-maintained mode. The change is recorded permanently in its memory.

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 (must be checked by an authorized personnel).
Off: Good LED strip.

General:

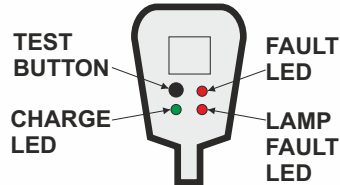
1. Operations for installation, maintenance or testing must be done by authorized personnel only.
2. The device must be connected to the mains power supply through a fuse dependent by the total amount of the line's power load.
3. In case of inactive use for a period greater than 2 months, disconnect the battery by pulling out the battery's connector.
4. **It is not allowed to discard batteries in to common trash bins, they must be discarded only in battery recycling points. Do not incinerate.**



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.

INDICATION LEDs



INSTALLATION INSTRUCTIONS

ELECTRICAL CONNECTIONS

- 1 Dismantle the luminaire by pushing the lock/unlock button and slide the luminaire to the right and pull it down.
- 2 Pass thru the cables from the entry hole and connect them as shown in the picture.
- 3 Place upwards the luminaire and slide it to the left. The lock/unlock button appears indicating that the luminaire is securely installed.
- 4 Power on the device.

SURFACE MOUNTING ON A WALL (single sided)

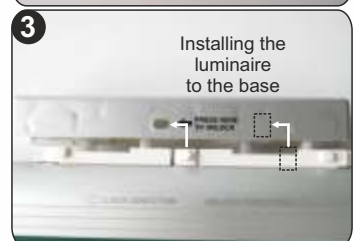
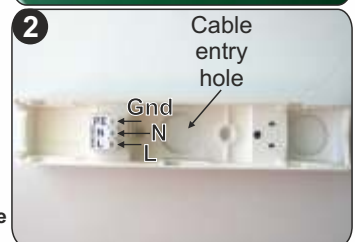
Install the included bracket on the wall (page 3) and perform the respective steps of the electrical connections.

CEILING INSTALLATION

Install the mounting base on the ceiling (page 3) and perform the respective steps of the electrical connections.

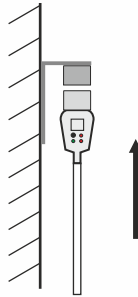
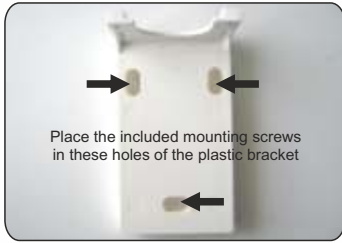
NOTE!!

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



MOUNTING METHODS

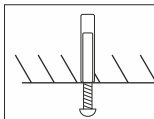
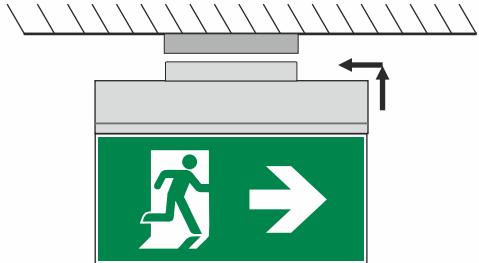
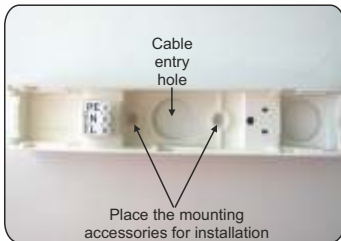
SURFACE MOUNTING ON A WALL (single side luminaire)



A-1134 SET
(INCLUDED IN THE PACKAGE)



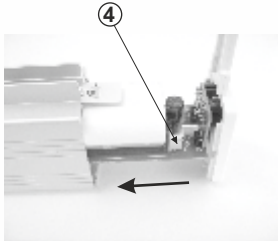
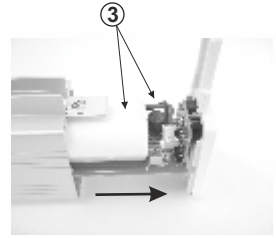
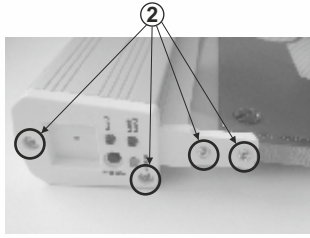
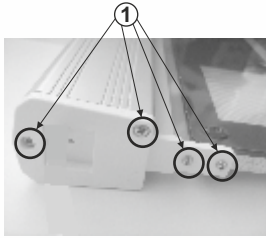
CEILING MOUNTED



GENERAL!!

Measure the distance of the mounting holes and after the drilling place on these spots the mounting plugs and fasten the base with the mounting screws.

Battery replacement process



- ① Unfasten the 4 screws without moving the marking panel.
- ② Unfasten the 4 screws and remove the marking panel.
- ③ Slide out carefully the electronic parts and the old battery.
- ④ Remove the old battery and install the new battery's connector to the appropriate P.C.B connector.
- ⑤ Slide in carefully the electronic parts and the battery.
- ⑥ Refit the marking panel and fasten the removed screws in steps 1 and 2.

WARNING!! Use a maximum torque of 0,25Nm to tighten the screws.

NOTE!!

In case of battery replacement the used battery must be replaced with a new one of the same type, by the manufacturer or by a competent person.

NOTE: LED= Light Emitting Diode

LABELING EXPLANATION:

X: Self contained

1: Maintained (*)

A: Including test device

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.

In case that the led strip must be replaced to ensure lumen output LED module can be replaced only by a competent personnel.