European manufacturer

olympia electronics SAFETY & SECURITY SYSTEMS

for a safer world!

PLD-25/SC SELF TESTING MAINTAINED EMERGENCY ILLUMINATION SIGN

CE

TECHNICAL CHARACTERISTICS *(for LED MODULE Specifications see page 3)*	
Mains voltage	220-240V AC/50-60Hz
Maximum power consumption	4.3W / 4.7VA
Emergency power source	Super Capacitor
Super capacitor protection	From overcharging
Indications / Control	Charge LED, Lamp Fault LED, Battery Fault LED / Test button
Recharging time	<6h
Minimum emergency duration	1h
Light source intensity (230V / emerg.)	73lm / 20lm
Viewing distance	26m
Degrees of cover protection	IP44
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	-40 to 65 °C
Relative humidity	up to 95%
Construction materials	Fire retardant ABS, Acrylic plate
External dimensions (LxWxH)	280x49x209mm
Typical weight	900gr.
Guarantee	10 years

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Olympia Electronics - 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 super capacitor is charging. In case of a mains power supply failure the luminaire will light the led strip automatically in emergency mode (powered by its super capacitor). When the mains power supply is restored the device turns to normal operation.

INSTALLATION

To install the luminaire follow the installation instructions on page 2,3,4.

Super Capacitor Charging

The super capacitor charging is completely controlled. Thereby, the best possible super capacitor maintenance is achieved, as well as the elongation of its duration.

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 mains power supply and the super capacitor 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 mains power supply

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 mains power supply should be connected and the super capacitor fully charged. If the super capacitor is not fully charged, the test is postponed until the super capacitor is completely charged. If during this test, the autonomy is less than nominal then the battery fault led turned on continuously and the super capacitor must be replaced.

Back Up Operation

The autonomous duration of super capacitor during emergency mode is at least 1 hour. 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.

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 no-maintained mode. The change is recorded permanently in it's memory.

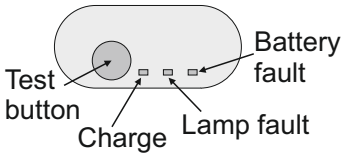
Indication LED status (with connected mains power supply).

Charge
On: Charge condition OK.
Off: No charging current or disconnected super capacitor.

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: LED strip OK.

Battery Fault
Off: Super Capacitor OK.
***Blink* (With Charge LED ON):** Autonomy or low backup capacity problem **(the super capacitor must be replaced).**
***Blink* (With Charge LED Off):** No charging current or disconnected super capacitor.

Indications



ATTENTION!!!
1. Operations for installation, maintainance or testing must be done by authorized personnel only.
2. The device must be connected to the mains power supply through a fuse that is dependent on the total amount of the line's power load.
3. In case of super capacitor or lamp replacement, these must be replaced, by the manufacturer or by a competent person.

4. **It is not allowed to discard electronic parts or devices in to common trash bins, they must be discarded only in special 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.

NOTE! The light source is non-user replaceable

NOTE: LED= Light Emitting Diode
LABELING EXPLANATION:
X: Self contained
1: Maintained **(*)**
A: Including test device
G: Internally illuminated safety sign
60: 1 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.

INSTALLATION INSTRUCTIONS

ELECTRICAL CONNECTIONS

① Pass through the cables from the entry hole and connect them as shown in the picture. **N** for neutral **L** for live wire and **PE** for ground (optional).

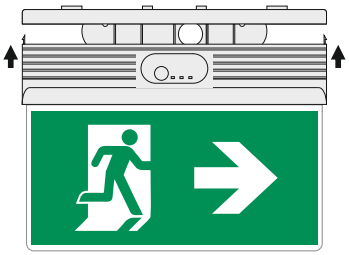
② Place upwards the luminaire until the plastic hooks are securely locked.

③ Power on the device.

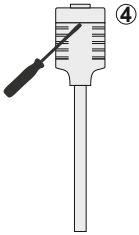
④ In case you need to open the luminaire use a flat screwdriver at the indication point of the luminaire as shown in Figure 4.

①

②



④



SURFACE MOUNTING ON A WALL (single sided)

Dismantle the luminaire, install the plastic bracket on the wall (page 4) and perform the respective steps of the electrical connections.

CEILING INSTALLATION

Dismantle the luminaire, install the plastic bracket on the ceiling (page 4) and perform the respective steps of the electrical connections.

HANGING INSTALLATION (optional)

Install the mounting base (tube) on the ceiling (page 4) and perform the respective steps of the electrical connections.

FLAG MOUNTING INSTALLATION (optional)

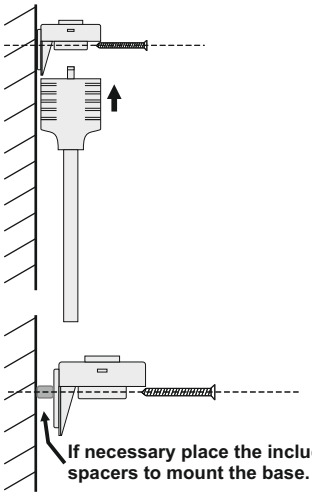
Install the flag mounting base on the wall (page 5) and perform the respective steps of the electrical connections.

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

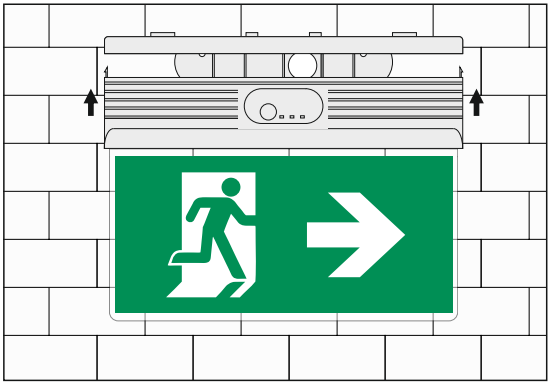
LED MODULE CHARACTERISTICS	
	PLD-25/SC
Manufacturer	Olympia Electronics S.A.
Model Number	1402163
Voltage Range	2.9-3.6V DC
Nominal Power	780mW
Connections	Non reversible connection between main pcb and led module
Temperature (tc)	45 °C max. across the board

SUGGESTED MOUNTING METHODS

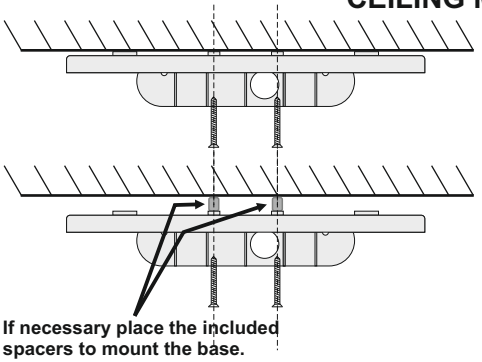
SURFACE MOUNTING ON A WALL (single side luminaire)



If necessary place the included spacers to mount the base.



CEILING MOUNTED



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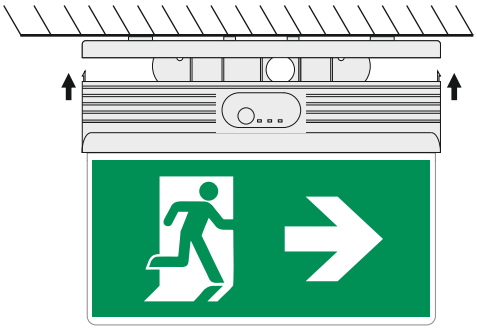
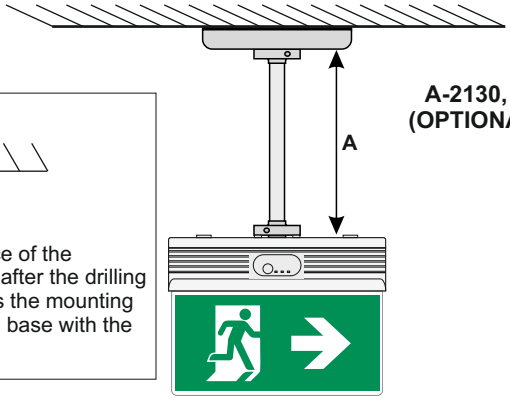
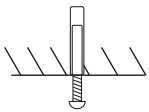


HANGING INSTALLATION



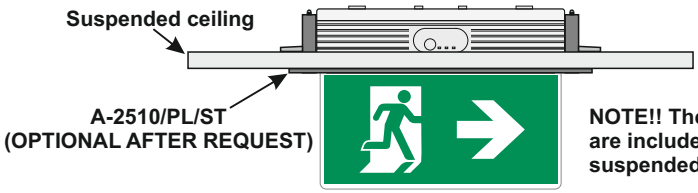


GENERAL!!
Measure the distance of the mounting holes and after the drilling place on these spots the mounting plugs and fasten the base with the mounting screws.

A-2130, A-2131, A-2132 SET (OPTIONAL AFTER REQUEST)

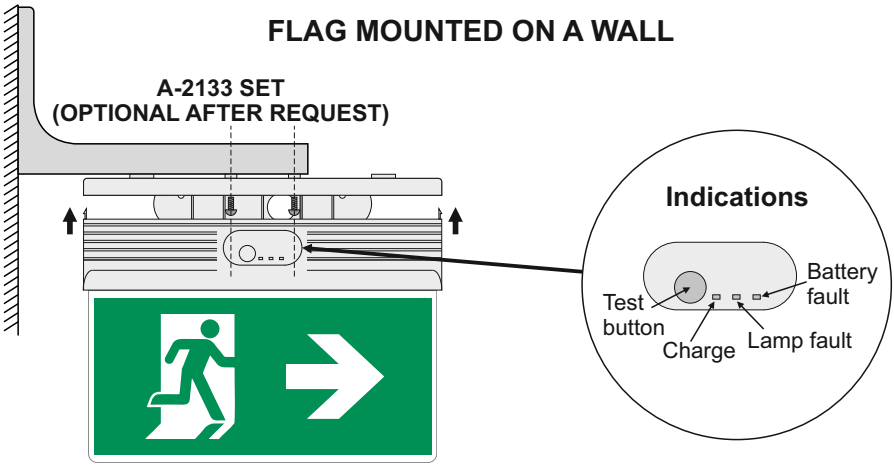
	Tube
A-2130	A=1m
A-2131	A=0.5m
A-2132	A=0.25m

SUSPENDED CEILING INSTALLATION



NOTE!! The installation instructions are included in the package of the suspended ceiling base.

FLAG MOUNTED ON A WALL



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 defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

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