

PLD-25/NiMH/M

SELF TESTING MAINTAINED EMERGENCY LED ILLUMINATION SIGN



TECHNICAL CHARACTERISTICS (for LED MODULE Specifications see page 3)

Mains voltage	220-240V AC/50-60Hz
Maximum power consumption	4W / 4.4VA
Battery (Ni-MH)	3.6V/1.5Ah
Battery protection	Overcharging and deep discharging protection
Indications / Control	Charge LED, Lamp Fault LED, Battery Fault LED / Test button
Recharging time	24h
Minimum emergency duration	3h
Light source intensity (230V / emerg.)	90lm / 100lm
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	5 to 40 °C
Relative humidity	up to 95%
Construction materials	Fire retardant ABS, Acrylic plate
External dimensions (LxWxH)	280x49x209mm
Typical weight	885gr.
Guarantee	3 years (1 year for the battery)

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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 (powered by its battery). When the mains power supply is restored the device turns to normal operation.

INSTALLATION

To install the luminaire follow the installation instructions on pages 3,4 and 5.

Battery Charging

The battery charging is completely controlled. Thereby, the best possible battery maintenance is achieved, as well as the elongation of its duration. When the battery has completely charged, it charges with a maintenance current.

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 in idle state and battery consumption is negligible, in order to be protected from deep discharge.

Manual Test

This test can be done by pressing the test button for a period 1-5 seconds. The light source and the emergency circuit of the device are monitored. The manual test can be conducted only if the mains power supply and the battery are connected. During this test period LAMP FAULT indication LED is blinking.

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 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 battery should 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 be turned on continuously and the battery must be replaced.

Manual Autonomy Test

Press and hold the test button for 5-10 seconds, and an autonomy test will run. Mains power supply

should be connected and the battery should be fully charged. The procedure and indication LEDs are the same as with Automatic Autonomy Test, described earlier.

Back Up Operation

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

Resetting Errors

Push the Test button for 10-15 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 15 seconds. The luminaire will change between maintained or non-maintained mode. The change is recorded in the luminaire's memory.

Connection to module (After request)

This luminary can be connected to any of the following modules: Remote module, address module, wireless module and fault relay module. If you connect it to a module that supports inhibit or rest mode, you should know that these commands can be cancelled only during normal mode (ie. not in emergency). For installation refer to step 3 of the installation procedure in page 3.

Also refer to the user manual of each module for additional information.

Indication LED status (with connected mains power supply).

Charge

On: Battery fully charged.

Blinking: Battery is charging.

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

Lamp Fault

On : Faulty LED strip (must be checked by an authorized personnel).

Blinking: Manual test in progress.

Off: LED strip OK.

Battery Fault

ON: Battery not connected or battery error.

Blinking (Charge LED blinks): Autonomy or low battery problem (**the battery must be replaced**).

Blinking (With Charge LED Off): Autonomy test in progress.

Off: Battery OK.

ATTENTION!!!

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 that is dependent on the total amount of the line's power load.

3. In case of battery or lamp replacement, these must be replaced by parts with 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.

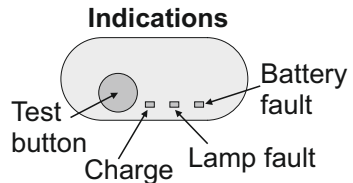
5. **It is not allowed to discard batteries in to common trash bins, they must be discarded only in battery recycling points. Do not incinerate.**



The light source contained in this luminaire shall only be replaced by the manufacturer, or his agent, or a similar qualified person.



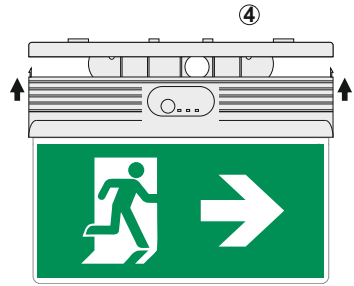
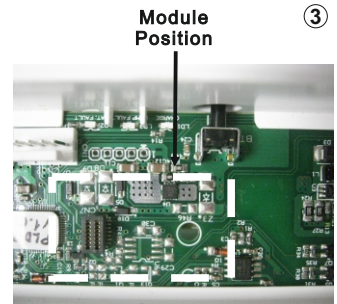
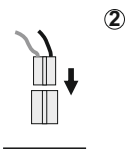
NOTE! The light source is non-user replaceable.



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 Connect the battery's connector to the respective connector on P.C.B.
- ③ In case of a module installation, except for wireless, you can use any hole of the luminaire to pass the 2 signal cables (Fig. 1). Install the cable grommet, pass the 2 signal cables through it opening a hole with a sharp tool and connect them on the A,B terminals (Fig. 1), minding the correct polarity. Depending on the module type that will be used, the cables, have different names. In terminal A, signals +L and C are also connected, while in terminal B, signals -L and NO (Fig. 1).
- ④ Place upwards the luminaire until the plastic hooks are securely locked.
- ⑤ Power on the device.



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)

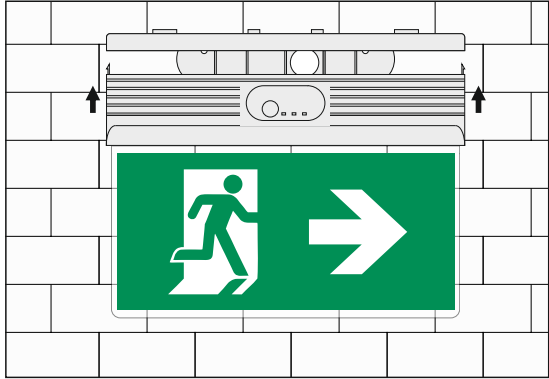
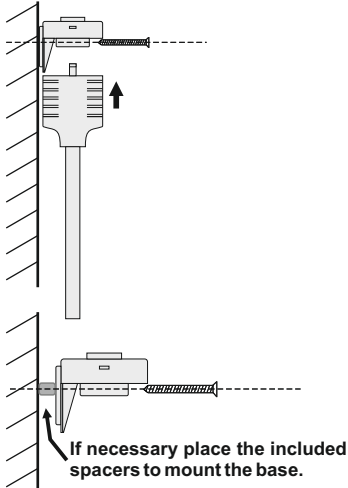
Install the flag mounting base on the wall (page 5) and perform the respective steps of the electrical connections.

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

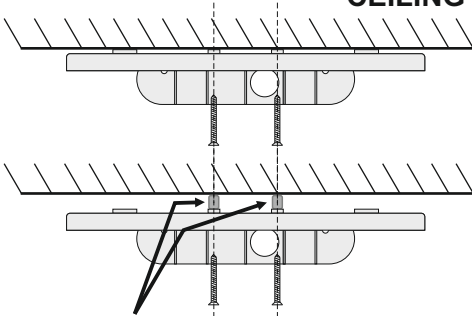
LED MODULE CHARACTERISTICS	
	PLD-25/NiMH/M
Manufacturer	Olympia Electronics S.A.
Model Number	0409153
Voltage Range	11-14V DC
Nominal Power	460mW
Connections	Non reversible connection between main pcb and led module
Temperature (tc)	45 °C max. across the board

SUGGESTED MOUNTING METHODS

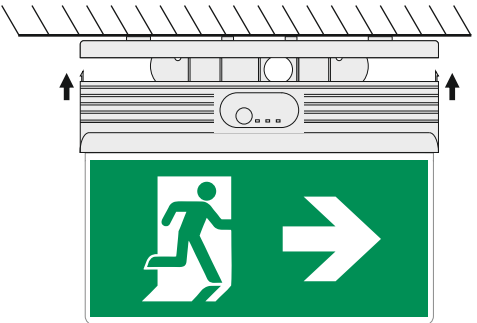
SURFACE MOUNTING ON A WALL (single side luminaire)



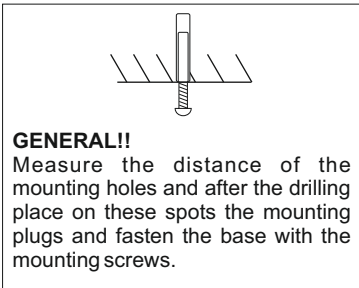
CEILING MOUNTED



If necessary place the included spacers to mount the base.

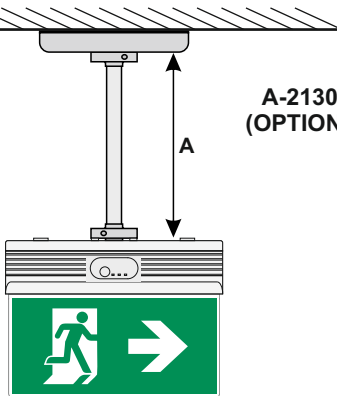


HANGING INSTALLATION

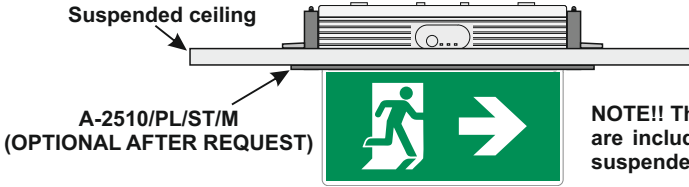


A-2130, A-2131, A-2132 SET
(OPTIONAL AFTER REQUEST)

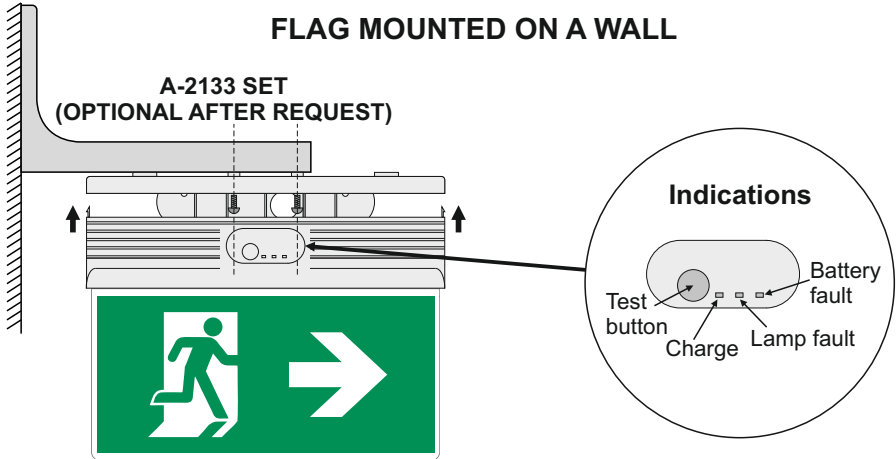
	Tube
A-2130	A=1m
A-2131	A=0.5m
A-2132	A=0.25m



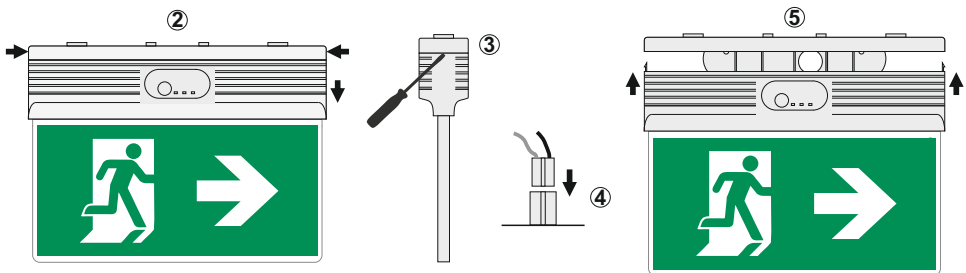
SUSPENDED CEILING INSTALLATION



FLAG MOUNTED ON A WALL



Battery replacement process



- ① Power off the device
- ② Dismantle the luminaire by pushing the lock/unlock hooks on each side and pull it down.
- ③ Use a flat screwdriver at the indication point in order to open the luminaire.
- ④ Remove the old battery and install the new battery's connector to the appropriate P.C.B connector.
- ⑤ Place upwards the luminaire until the plastic hooks are securely locked.
- ⑥ Power on the device.

NOTE: LED= Light Emitting Diode LABELING EXPLANATION:

X: Self contained

1: Maintained (*)

A: Including test device

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

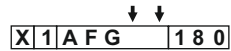
G: Internally illuminated

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.

Note!! If a module will be used (except the fault relay module), then the installer should fill in, on the specification label, the letters **B C**.



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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