

## SELF TESTING MAINTAINED EMERGENCY LED ILLUMINATION SIGNS



### TECHNICAL CHARACTERISTICS (for LED MODULE Specifications see page 8)

	KLR-20/ST	KLD-22/ST	KLD-30/ST
Mains voltage	220-240V AC/50-60Hz		
Maximum power consumption	3.5W / 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.)	75lm / 75lm		
Viewing distance	20m	22m	30m
Degrees of cover protection	IP54		
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		
Operation temperature range	5 to 40 °C		
Relative humidity	up to 95%		
Construction materials	ABS/PC, PC	ABS/PC, Plexiglass	
External dimensions (LxWxH)	254x35x170mm	254x35x181mm	310x35x220mm
Typical weight	557gr.	740gr.	953gr.
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 page 3,4,5.

#### Battery Charging

The battery charging is completely controlled by microprocessor and is protected from completely discharge and over charge.

#### 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.

#### 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 battery is connected. During this test period the LAMP TEST LED will blink.

#### Manual Autonomous Test

A duration test can be conducted if 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 be 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 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 and the battery should be connected and 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 LED battery fault will permanently be on and 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 technical characteristics. During emergency mode, a light source test is also performed.

### Resetting Errors

Push the Test button for more than 10 seconds, to delete all the LED indicated errors. Then the device enters regular operation mode.

### Changing the operating mode

To change operating mode select the jumper position according to the step 4 in page 3.

### Indication LED status

#### Charge

**On:** Fully charged.

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

**Blink:** Charging.

#### Lamp Fault

**On:** Faulty LED

**Off:** LED OK.

**Blink:** LED 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.

### Connection to module (After request)

This luminary can be connected to any of the following modules: Remote module, address 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.

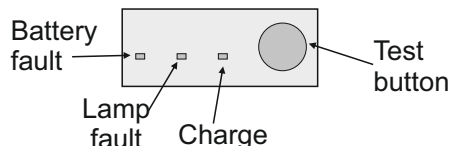
### ATTENTION!!!

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 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

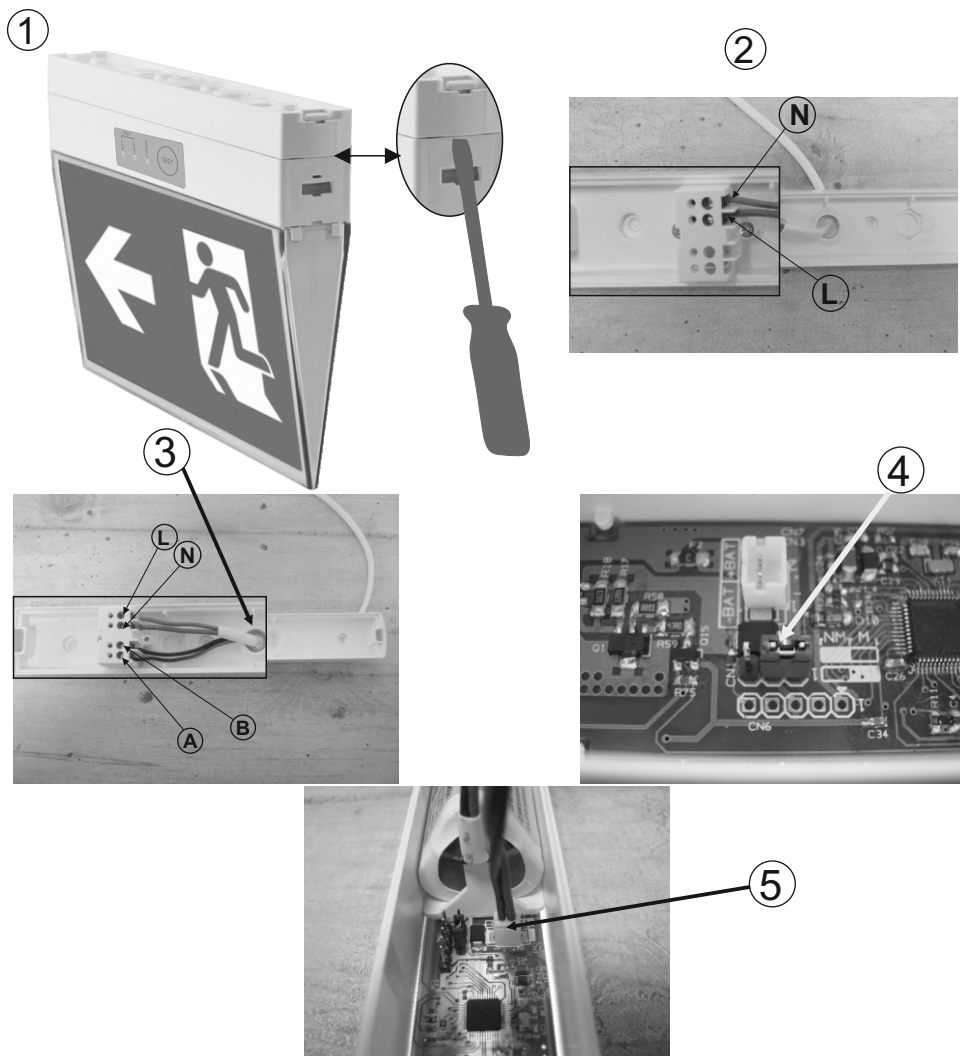


**in to common trash bins, they must be discarded only in battery recycling points. Do not incinerate.**

### Indications/ Controls



## LUMINAIRE INSTALLATION PROCEDURE



1. To install the luminaire you must first remove the top cover that has the terminal blocks, by pressing on the retaining hooks using a flat blade screwdriver (min. width 5mm) as shown in the photo.
2. Open a hole in the center of the cable grommet to pass the cable. Next connect the power cable to the terminal block.
3. If you will use a module, pass the signal cable in the same hole as the power cable. Minding the correct polarity. Depending on the module that will be used, the cables that will be used, have different names. In A, signal +L, C are also connected, while signals -L, NC/NO in the terminal B.
4. The operation mode can be selected using the mode jumper. Depending on the position of the jumper you can select (M) maintained operation (this is the default selection) and (NM) non maintained operation.
5. Connect the battery cable to its respective connector on the board.
6. Reinstall the cover minding the orientation. The luminaire is now ready to be powered on.

### Battery replacement.

*Can be conducted by qualified personnel and after isolating the mains power supply.*

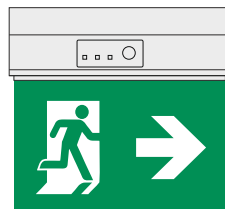
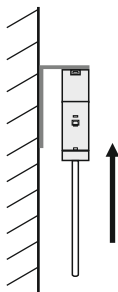
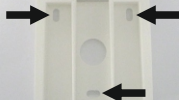
1. Follow step 1 in the installation procedure.
2. Remove the battery connector and carefully remove the battery from its base.
3. Install a new battery of the same type and rating (step 5 of the installation procedure) .
4. Follow step 6 of the installation procedure and power the luminaire.

## MOUNTING METHODS

### **SURFACE MOUNTING ON A WALL (single side luminaire)**

**(INCLUDED IN THE PACKAGE)**

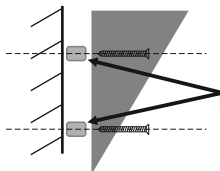
Place the included mounting screws  
in these holes of the plastic bracket



Cable  
entry  
hole



Place the included mounting screws  
for the flag mounting base



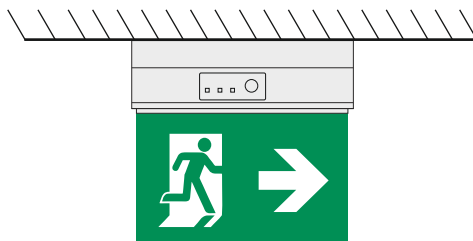
**If necessary place the included  
spacers to mount the base.**

### **CEILING MOUNTED**

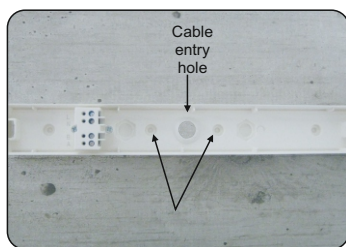
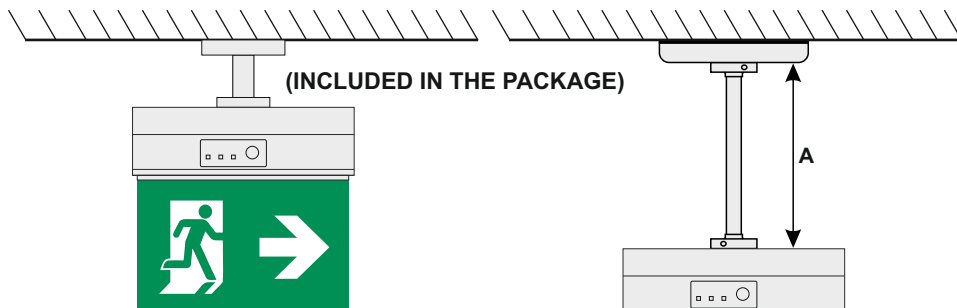
Cable  
entry  
hole



Place the included mounting screws  
for the flag mounting base



## HANGING INSTALLATION

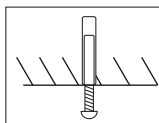
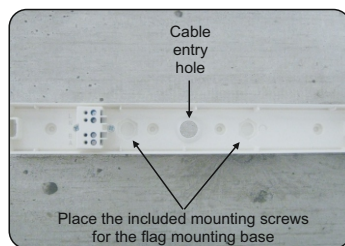
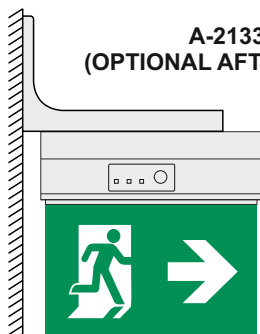


**A-2130, A-2131, A-2132 SET  
(OPTIONAL AFTER REQUEST)**

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

## FLAG MOUNTED ON A WALL

**A-2133 SET  
(OPTIONAL AFTER REQUEST)**



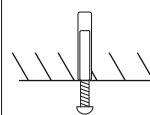
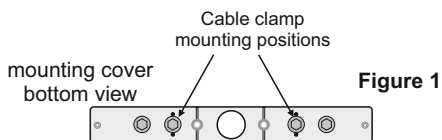
### GENERAL!!

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.

# HANGING INSTALLATION

## A-2136 SET (AFTER REQUEST)

2x1.20m length



### GENERAL!!

Measure the distance between the mounting holes and drill appropriate holes in the ceiling. Use the supplied screws and plugs to mount the pendulum mount.

### INSTALLATION

1. Drill out the cable clamp mounting positions located on the cover using a 10mm drill bit (Figure 1).
2. Install the provided cable clamps and fasten them using the supplied nuts (Figure 2). Un-tighten slightly the cable clamps found on the cover. Cut the pendulum cables of equal length and pass them into the cable clamps and tighten the cable clamps.
3. Insert the rubber gasket in the cable entry hole (Figure 3). Open a small hole in the gasket and pass the power cable. Next fasten the cover and base to the ceiling using the supplied mounting accessories (screws and plugs) (Figure 3).
4. Detach the main body from the base using a flat blade screwdriver (min. width 5mm) (Figure 4).
5. Drill out the 2 holes with a 10mm drill bit (**Figure A**) and attach the supplied accessories as in step 2.

**WARNING** The pendulum cables must not protrude from the nuts inside the base in order to avoid contact with the electronics (Figure 5).

6. Connect the power connectors.
7. Reinstall the main body to the base.

Figure 2

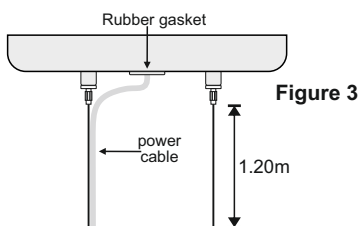
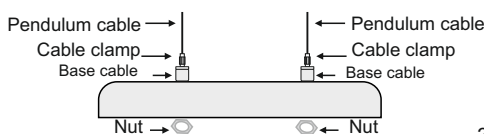


Figure 4

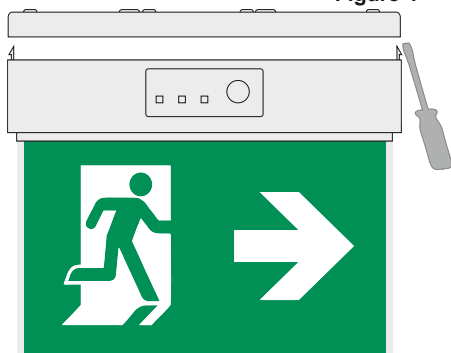
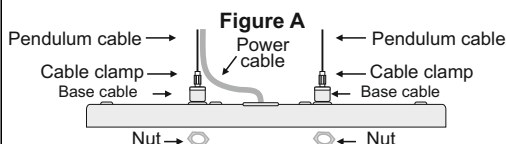
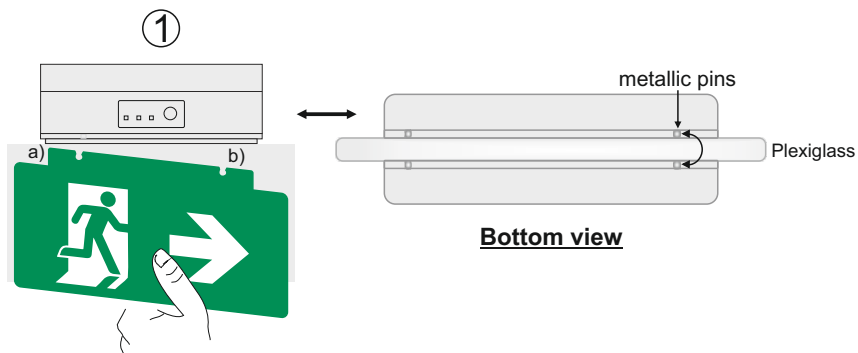


Figure 5



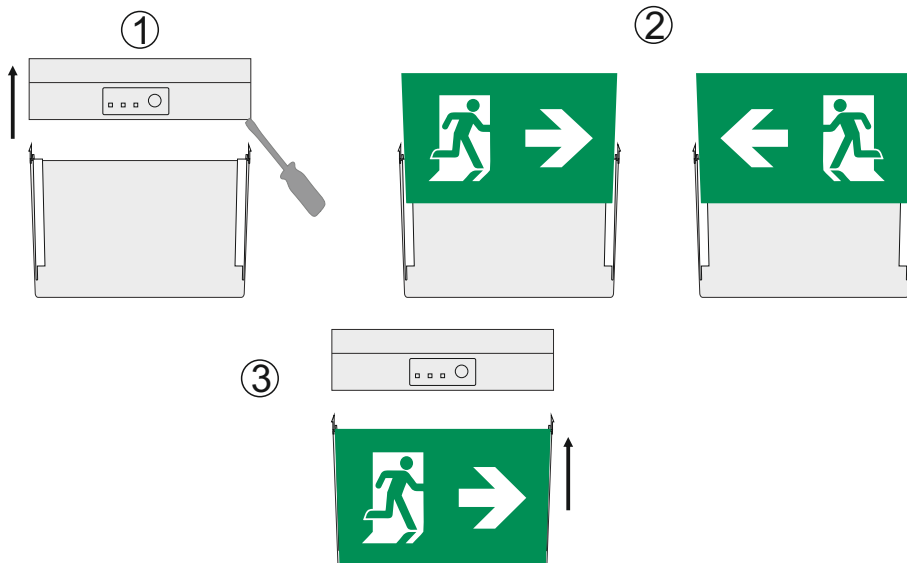
## LEGEND INSTALLATION - REPLACEMENT

### KLD-22/ST & KLD-30/ST



1. Align the two notches located on the top side of the legend to the metallic pins in the luminaire body and press firmly until the legend is attached to the pins. Do this sequentially one pin at the time. Use the same method to install the legend on the other side.

### KLR-20/ST



1. Remove the transparent legend retaining cover from the main base by pressing gently on the retaining clips using a flat blade screwdriver (min. width 5mm).
2. Install the required marking legends by sliding them in front of the white plastic retainers.
3. Reinstall the complete assembly to the main base.

**NOTE:** LED= Light Emitting Diode

**LABELING EXPLANATION:**

**X:** Self contained

**1:** Maintained (\*)

**A:** Including test device

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

**G:** Internally illuminated safety sign

**180:** 3 hours duration

**Non Maintained operation:** The luminaire lights its illumination source, only in power supply's failure.

(\*) **Maintained operation:** The luminaire lights its illumination source, when it is powered by the mains power supply or not.

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**.

↓ ↓  

X	1	A	E	G
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1	8	0
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**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.*

**LED MODULE CHARACTERISTICS**

	KLR-20/ST	KLD-22/ST	KLD-30/ST
Manufacturer	Olympia Electronics S.A.		
Model Number	0705185		
Voltage Range	11.2-13.2V		
Nominal Power	0.72W		
Connections	Built-in main board		
Temperature (tc)	45 °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 defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

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