European manufacturer

olympia electronics SAFETY & SECURITY SYSTEMS

for a safer world!

MAINTAINED/NON-MAINTAINED EMERGENCY ILLUMINATION SIGNS

CE

TECHNICAL CHARACTERISTICS	MLD-28D/w	MLD-34D/w	MLD-44D/w
OPERATION VOLTAGE	220-240V AC/50-60Hz		
MAXIMUM POWER CONSUMPTION	3W / 7.5VA	3W / 8VA	
Prated	980mW		
Irated	100mA		
U-OUT	20V		
EOFi	0.65		
WIRE CROSS SECTION	2.5mm^2		
BATTERY (Ni-Cd)	3.6V/1Ah		
BATTERY PROTECTION	Deep discharge and overcharge protection / the control gear will recharge the battery normally after the test of 22.3		
MIN MAX. DISCHARGE VOLTAGE	3 - 4.1V		
MIN MAX. DISCHARGE CURRENT	208 - 250mA		
MIN MAX. CHARGE CURRENT	135 - 145mA		
MAX CHARGE VOLTAGE	4.8V		
RATED CURRENT @ 3.6V	245mA	240mA	
INDICATIONS/CONTROLS	Charge LED / Test Button		
CHARGE TIME	24h		
MINIMUM DURATION	3h		
LIGHT SOURCE	12 White LED	15 White LED	
LIGHT SOURCE LUMINOUS FLUX (MAINS / EMERGENCY)	85lm/85lm	105lm/85lm	
DEGREES OF COVER PROTECTION	IP40		
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3		
VIEWING DISTANCE	16m	30m	38m
OPERATION TEMPERATURE RANGE	5-40 °C		
RELATIVE HUMIDITY	Up to 95%		
CONSTRUCTION MATERIAL	ABS/PC, Acrylic plate, PVC		
EXTERNAL PANEL DIMENSION (L x W x H)	280x100mm	340x170mm	440x220mm
EXTERNAL DIMENSION (L x W x H)	305x25x155mm	365x25x225mm	465x25x275mm
WEIGHT	520gr.	850gr.	1310gr.
GUARANTEE	3 years (1 year for the battery)		
The controlgear is suitable for LED modules only			
The controlgear has mains-connected windings of transformer			
The controlgear is proof against supply voltage polarity reversal			
The lamp controlgear relies upon the luminaire enclosure for protection against accidental contact with live part (7.2 BS EN 61347-2-7)			
Integrated SPD			

LED MODULE CHARACTERISTICS	MLD-28D/w	MLD-34D/w	MLD-44D/w
MANUFACTURER	Olympia Electronics S.A.		
MODEL NUMBER	1702161	1802161	1902161
VOLTAGE RANGE	8.5-10.5V DC		
NOMINAL POWER	800mW	980mW	
CONNECTIONS	Fixed connection between main pcb and led module		
TEMPERATURE (tc)	45 °C max. across the board		

The light source of this luminaire is not replaceable when the light source reaches its end of life the whole luminaire shall be replaced.

NOTE Maintenance of the declared insulation barrier for the luminaire can also be dependent on other external components/products connected to the same bus. This is the responsibility of the control system designer, not the luminaire manufacturer.

Thank you for your trust in our products
Olympia Electronics - European manufacturer

GENERAL

These devices are used indoors (ta 40°C) in places where emergency light is needed. Each device must be permanently connected to mains power supply. In normal operation the battery is charging. The light source can be either on or off, depending on user's choice. In case of a mains power supply failure, the device enters emergency mode and the illumination LED turns on. When the mains power supply is restored the device turns to normal operation.

Manual Operational Test

By pressing the test button an operation test is initiated. The light source and the emergency circuit of the device are tested. The manual test can be conducted only if the mains power supply and the battery are connected. This test lasts for 3 seconds.

Changing The Operating Mode

To change the operating mode to maintained (factory default) or non-maintained, press continuously the TEST button for 5 seconds. The LED lamp will turn off. Release the button and after an operational test, the luminaire will operate as non-maintained. To restore the luminaire to maintained operation, repeat the same procedure.

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 circuit breaker that is depends on the total line's power load.
3. In case of battery replacement, it must be replaced by the same type, by the manufacturer or 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.

NOTE: LED= Light Emitting Diode

LABELING EXPLANATION:

X: Self contained
1: Maintained/Non-Maintained **(*)**
A: Including test device
G: Internally illuminated safety sign.
180: 3 hour duration

X	1	A	G	180

(*) 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.

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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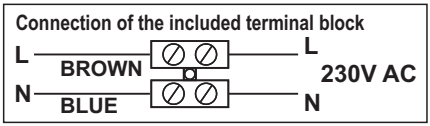
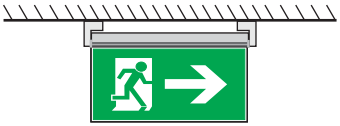
Mounting methods

Preparation procedure for ceiling mounting

Attention!!! Interrupt the mains power supply.

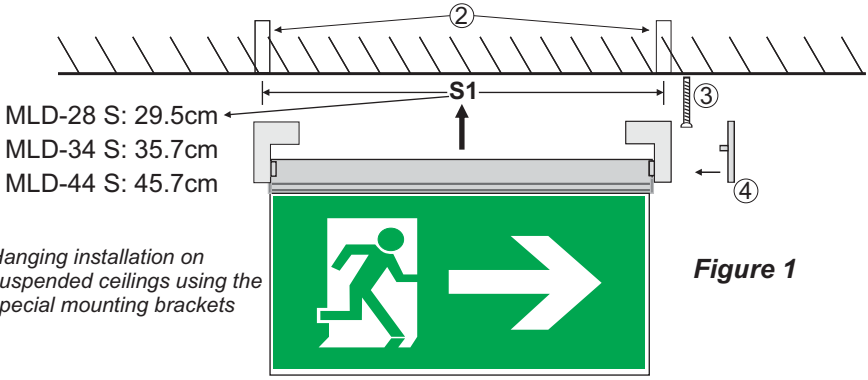




Hanging installation on suspended ceilings using the special mounting brackets contained in the package.

1. Open the pre-etched knock out and pass the cable through.
2. Place the plastic part for mounting the sign.
3. Place the cable holding accessory and mount it by tightening the screw with the included grommet.
4. Connect the wires to the included terminal block and place it in the plastic mounting part.
5. Follow the procedure bellow (figure 1).

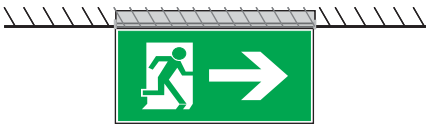
Ceiling mounting



Hanging installation on suspended ceilings using the special mounting brackets

Figure 1

1. **Attention!!!** Choose the installation area to insure that the mounting surface is appropriate for the installation of the illumination sign.
2. Measure the space **S** according to the illumination sign's type and drill the appropriate holes in the ceiling for the installation of the included mounting plugs Nr 6.
3. Place the mounting plugs Nr 6 and mount the sign by tightening the included mounting screws.
4. Refit the plastic cover on each side.
5. Power the illumination sign and check the illumination sign's operation.

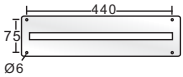


Recessed mounted installation on suspended ceilings using the base type A-1018/PL, A-1020/PL, A-1021.

Suspended ceiling mounting bases

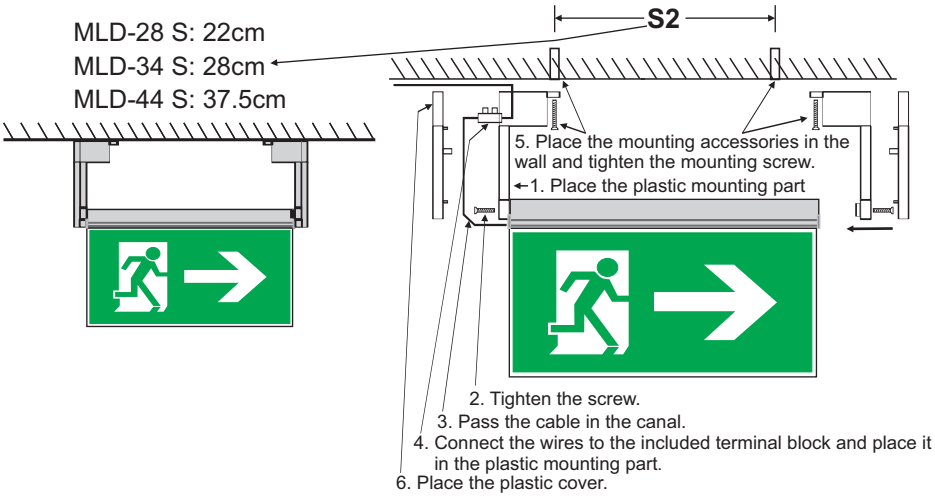
A-1018/PL

A-1020/PL



A-1021

Ceiling mounting



OPTIONAL !!

When a triple core cable must be used, then follow the figures 2,3 bellow.

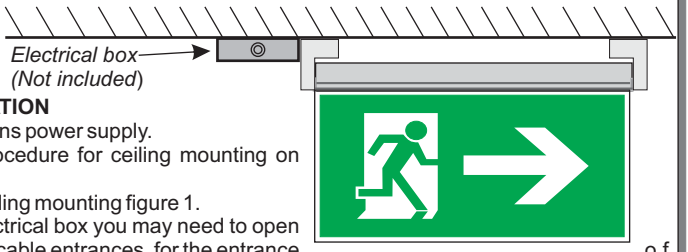


Figure 2

ELECTRICAL BOX INSTALLATION

1. **Attention!!!** Interrupt the mains power supply.
2. Perform the preparation procedure for ceiling mounting on page 2 and exclude step 4.
3. Perform the procedure for ceiling mounting figure 1.
4. For the installation of the electrical box you may need to open holes in the ceiling and at it's cable entrances, for the entrance of the power and illumination sign's cables. Install the electrical box next to the sign so as to cover the cable (figure 2).
5. After mounted the electrical box open the cover and perform the electrical connection according to Figure 3. After the connection close the cover of the box.
6. Power the illumination sign and check the illumination sign's operation.

Use a certified electrical box 250V AC (IP40) to perform the electrical connection, with minimum internal space 35x35x25mm to install the 3 pole terminal block. In this box install a certified 3 pole terminal block 250V AC/16A 2,5mm² providing terminals to connect the live wire L, the neutral N and the ground GND. To this terminal block is connected the power cable with a cross section of 1,5mm². Install the electrical box in an appropriate area in the ceiling. Install securely the 3 pole terminal block and perform the connection according to figure 3.

The electrical box and the 3 pole terminal block <u>not</u> included. Installation may require advice from a qualified person.

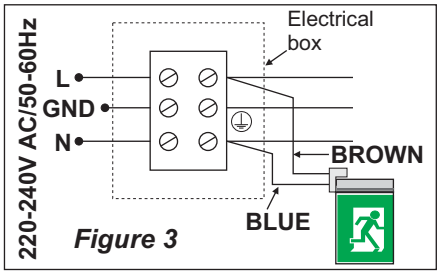
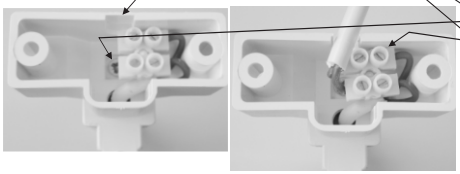


Figure 3

Wall mounting

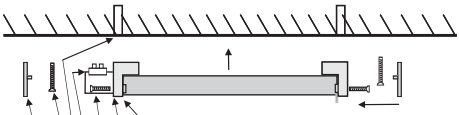
Flag mounted installation on a wall using the special mounting bracket contained in the package.

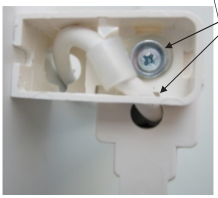


1. Open the pre-etched knock out and pass the cable through.
2. Place the single mounting plastic part
3. Tighten the mounting screw.
4. Connect the wires to the included terminal block and place it in the plastic mounting part.
6. After finishing the installation, secure the cable with a suitable cable detention bracket (not included) to ensure immobilization of the cable at a distance of no more than 5cm from the luminaire's cable entry.

Wall mounted installation using the special mounting brackets contained in the package.

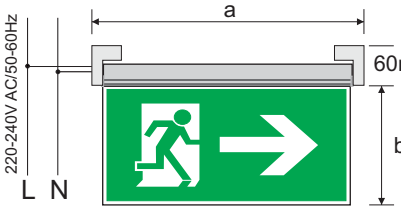
Wall in bottom view





1. Open the pre-etched knock out and pass the cable through.
2. Place the plastic part
3. Place the cable holding accessory and mount it by tightening the screw with the included grommet.
4. Connect the wires to the included terminal block and place it in the plastic mounting part.
5. Place the mounting accessories in the wall and tighten the mounting screw figure 1 step 3.
6. Place the plastic cover.

Electric connection and Eco Light dimensions in mm



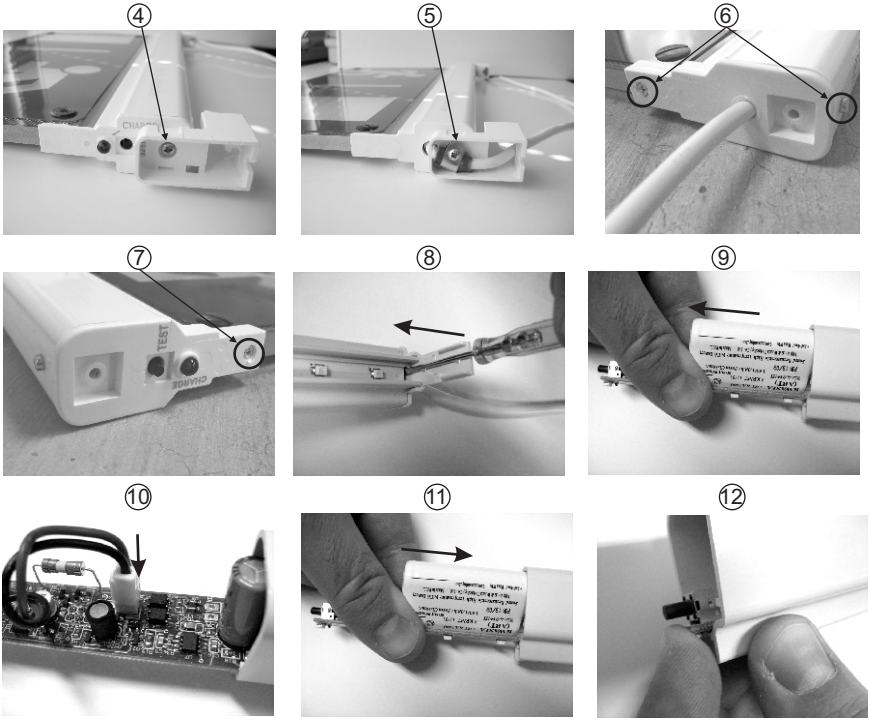
MLD-28 : 305(a) x 95(b)
MLD-34 : 365(a) x 165(b)
MLD-44 : 465(a) x 215(b)

Package contents

The package contains:
1. The illumination sign
2. The instructions manual
3. Plastic bag with supporting materials.

ATTENTION!! If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

BATTERY REPLACEMENT PROCESS



Before service interrupt the mains power supply.

1. Remove the plastic cover from each side. (figure 1, step 4).
2. Unfasten the mounting screws to unmount the illumination sign (figure 1, step 2).
3. You have to disconnect the power supply wires of the sign from the terminal block.
4. Unfasten the mounting screw of the bracket and remove it.
5.Unfasten the mounting screw (with the cable holding accessory) of the bracket and remove the bracket.
6. Unfasten the screws without moving the marking panel.
7. Unfasten the screw and remove the marking panel.
8. Slide out the led strip with a flat blade screwdriver.
9. Pull carefully the led strip by holding it from the two sides as shown on the picture.
10. Remove the used battery and place a new one with the same type A-939/HT with same cables and connector.
11. Push carefully the led strip by holding it from the two sides as shown on the picture.
12. Push the led strip to face the edge of the plastic cover. ATTENTION !!! Don't apply force to the test button.
13. Refit the removed parts in steps 7,6,5 and 4. WARNING!! Use a maximum torque of 0,25Nm to tighten the screws (step 6 and 7) and a maximum torque of 0,6Nm to tighten the screws (step 4,5).
14. Mount the illumination sign with the mounting screws (figure 1, step 4).
15. Connect the power supply wires of the sign to the terminal block (step 3). Refit the plastic cover (figure 1, step 5) and power the illumination sign.

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