



LOW-DIVERGENCE LED BEACON

MBL 400-LD



The MBL 400-LD is a LED flashing beacon of medium and long range, with a great optical output, providing light beams of high precision. Its luminous source consists of high-power LED diodes, obtaining a range of up to 24 nautical miles. Intended to be placed in on-shore aids-to-navigation locations, such as poles and towers, with a minimum maintenance, as well as hard-to-reach sites or under extreme environmental conditions.

Fitted with a high-precision lens made from UV-resistant acrylic and protected with a shock-resistant tempered glass lens cover. Manufactured with high-quality and resistant materials, the MBL 400-LD provides a long service life under the harshest marine conditions.

Designed according to IALA Recommendations.

FEATURES

- ✓ State-of-the-art LED technology.
- ✓ High-efficiency luminous system.
Up to 16 nm (T=0.74), 24 nm (T=0.85).
- ✓ Vertical divergence of 2° (50%Io).
- ✓ UV-stabilised circular acrylic lens.
- ✓ Average operation lifetime over 15 years.
- ✓ Photocell adjustable in lux.
- ✓ IP 67 watertightness degree (immersion resistant).
- ✓ Linear adjustment of luminous intensity.
- ✓ Double RS-232 serial port for setting adjustments by PC and remote monitoring system.
- ✓ Programming, configuration and operating status via PC, IR programmer or Bluetooth.
- ✓ Short-circuit, reverse-polarity, over-temperature and transient over-voltage protections.

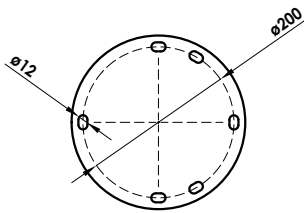
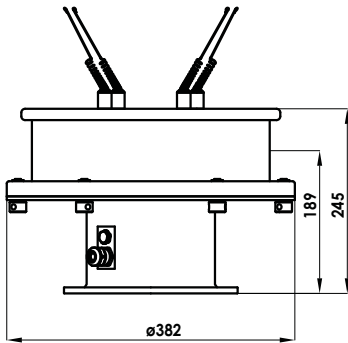


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Specifications subject to change without previous notice.



Optical System	
Light source:	Ultra-bright LED diodes, with high-precision acrylic lens.
Luminous range:	Up to 16 nm (T=0.74) 24 nm (T=0.85).
Colours available:	White, green, red and blue.
Vertical divergence:	Up to 2° (50% Io).
LED average life:	More than 100,000 hours.
Power supply:	From 8 to 32V.
Lantern consumption:	From 10 to 113W.

Electronic control	
Flash rhythms:	256 (6 nos. user selectable).
Day/night threshold:	Adjustable between 10 and 400 lux.
Settings:	PC / IR programmer / Bluetooth.
Luminous intensity adjustment:	Linear, between 10 and 100%.
Light intensity reduction due to low battery:	Configurable by the user.

Materials and environment	
Lantern:	Marine aluminium, with polyurethane finishing.
Lens cover:	UV stabilised tempered glass.
Shock resistance:	MIL-STD-202G, method 213B.
Watertightness degree:	IP 67.
Fixings:	4 bolts in a 200mm diameter.
Humidity resistance:	100%. Pressure-compensation valve to avoid condensation.
Temperature range:	From -30° to 70°C.
Inside hardware:	Stainless steel.

MBL 400-LD	PEAK INTENSITIES (Cd)
Power	Blanco ■
30W	7,500
60W	15,000
80W	20,000

MBL 400-LD	PEAK INTENSITIES (Cd)
Power	Green ■
29W	3,000
56W	6,000
113W	12,000

MBL 400-LD	PEAK INTENSITIES (Cd)
Power	Red ■
16W	1,700
32W	3,400
64W	6,800

Options
Infrared (IR) programmer.
PC programming kit.
RS-485 MODBUS serial port.
Other specifications available under request.
MBL 400-LD-SYNC (GPS synchronisation).
MBL 400-LD-TG (GSM remote monitoring).
MBL 400-LD-TR (Radio remote monitoring).
MBL 400-LD-TS (Satellite remote monitoring).
MBL 400-LD-AIS (AIS AtoN).



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