

MBL400S

Excellent optical efficiency

The MBL400S is a medium-range LED sector flashing light, with a great optical efficiency, providing sectorised light beams with an accuracy of up to 0.5°. Its luminous source consists of high-intensity LED diodes, obtaining a maximum range of 12 nautical miles.

Minimal maintenance

Intended to be placed in on-shore aids-to-navigation locations, such as poles and towers, as well as hard-to-reach sites or under extreme environmental conditions.

Effective sectorisation

Its optical system utilises the point light source of the lens to make an effective sectorisation in each case. Every sector requires an individual light level, which enables practically any sector configuration.

Levels are superimposed and protected by a shock-resistant glass lens cover. Thus, each beacon is personalized as considering the required range, colours and angles of sector.

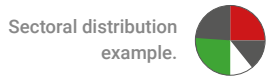
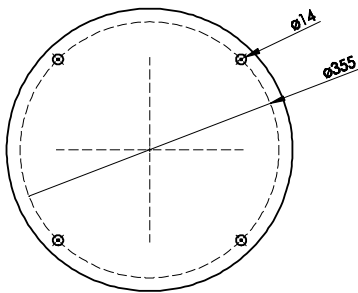
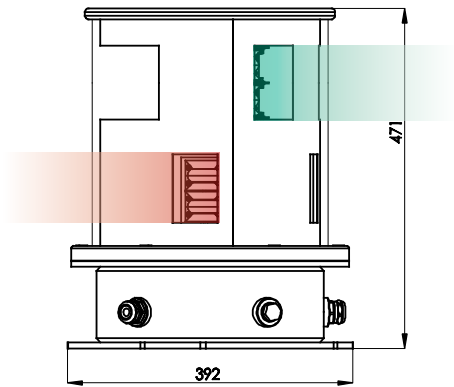
Designed according to IALA Recommendations.



FEATURES

- *State-of-the-art LED technology.*
- *High-efficiency luminous system.*
Up to 12 nm (T=0.74), 18 nm (T=0.85).
- *Vertical divergence 5° (50% I₀).*
- *Inner sectorised lampshade made from aluminium, laser machining.*
- *Field-diaphragm sectorisation, made to measure for each case.*
- *Average operation lifetime over 15 years.*
- *IP 67 watertightness degree (immersion resistant).*
- *Programming, configuration and operating status via PC, Bluetooth or IR programmer.*
- *Short-circuit, reverse-polarity and transient over-voltage protections.*
- *High shock resistance.*
- *Anti-humidity device to avoid condensation.*
- *PATENTED OPTICAL SYSTEM.*

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Technical Features

Light source:	Ultra-bright LED diodes, with high-precision acrylic lens.
Luminous range:	From 2 to 12 nm (T=0.74) 18 nm (T=0.85).
Vertical divergence:	Up to to 5° (50% I ₀).
LED average life:	More than 100.000 hours.
Power supply:	From 9 to 36 V.
Lantern consumption:	From 6 to 70 W.
Flash rhythms:	256 (6 nos. user selectable).
Base:	Marine grade aluminium with polyurethane finishing.
Lampshade:	Anodised aluminium.
Lens cover:	Tempered glass, UV stabilised.
Watertightness degree:	IP 67.
Programming:	PC, Bluetooth or IR programmer.

Options

- PC programming kit.
- RS-485 MODBUS serial port.
- Other specifications available under request.
- MBL400S-SYNC (GPS synchronisation).
- MBL400S-TG (GSM remote monitoring).
- MBL400S-TR (Radio remote monitoring).
- MBL400S-TS (Satellite remote monitoring).
- MBL400S-AIS (AIS AtoN).

Peak intensities (Cd)

Levels	White	Green	Red
1	706 Cd	532 Cd	275 Cd
2	1412 Cd	1064 Cd	550 Cd
3	2118 Cd	1596 Cd	825 Cd
10	7060 Cd	5320 Cd	2750 Cd

A minimum intensity of 706 Cd per level (white) is obtained, the intensity of the beacon will depend on the configuration and amplitude of the sectors that are needed. Each case is individually studied, configured and optimized.

Specifications subject to change without previous notice.