The MBL 400 is a LED flashing beacon of medium and long range, with a great optical output. Its luminous source consists of high-power LED diodes, obtaining a range of up to 27 nautical miles.

Intended to be placed in on-shore aids-to-navigation locations, such as poles and towers, with a minimum maintenance.

Fitted with 9 nos. optical elements by level, arranged in a circular way in a 300mm diameter, made from UV-resistant methacrylate and protected with a shock-resistant glass lens cover. Manufactured with high-quality and resistant materials, the MBL 400 provides a long service life under very severe marine conditions.

Designed according to IALA Recommendations.

**Features:**

- State-of-the-art LED technology.
- High-efficiency luminous system.
  - Up to 17 nm (T=0.74), 27 nm (T=0.85).
- Vertical divergence of up to 5° (50%Io).
- Shock-resistant glass lens cover.
- 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.
- PATENTED OPTICAL SYSTEM.
LED Marine Lanterns

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Optical System

Light source: 27 to 99 nos. ultra-bright LED diodes, with high-precision acrylic lens.
Luminous range: Up to 17 nm (T=0.74) 27 nm (T=0.85).
Colours available: White, green, red, amber and blue.
Vertical divergence: Up to 5° (50% Io).
LED average life: More than 100,000 hours.
Power supply: From 9 to 36V.
Lantern consumption: From 54 to 297W.

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: Tempered glass.
 Watertightness degree: IP 67.
Fixings: 4 bolts in a 355mm diameter.
Humidity resistance: 100%. Pressure-compensation valve to avoid condensation.
Temperature range: From -30º to 70ºC.
Inside hardware: Stainless steel.

MBL 400 of 3 levels.

Options

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