



WRECK-MARKING COMPACT LED LANTERN

MCL 250-N



The MCL 250-N is a compact LED lantern, with great optical efficiency and low consumption, fitted with 12 nos. LED diodes of high intensity arrayed in two levels: an amber one and a blue one. Especially designed to mark **Wrecks and New Dangers**, in accordance with the IALA Recommendation No. O-133 of December 2005.

This lantern reaches a nominal range of 5 nautical miles (6 nm in T=0.85), with the flash rhythm established by this Recommendation.

Its fixing is standard, which easily allows its installation on any aids-to-navigation buoy. Manufactured with high-quality and resistant materials, the MCL 250-N provides a long service life under harsh marine conditions.

Designed according to IALA Recommendations.

FEATURES

- ✓ High-efficiency luminous system.
5 nm (T=0.74), 6 nm (T=0.85).
- ✓ Vertical divergence of 12° (50%Io).
- ✓ 360° horizontal output.
- ✓ 4 nos. solar modules of 7.5W each, plus 1 no. solar module of 2.5W.
- ✓ Average operation lifetime over 10 years.
- ✓ IP 67 watertightness degree (immersion resistant).
- ✓ 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 as an option.
- ✓ Ready to integrate remote monitoring via GSM, VHF or satellite, synchronization via GPS or AIS AtoN module.
- ✓ Autonomy without solar charging up to 750 hours.
- ✓ Automatic energy management, according to latitude.
- ✓ **PATENTED OPTICAL SYSTEM.**

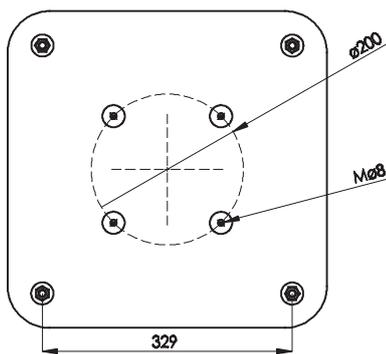
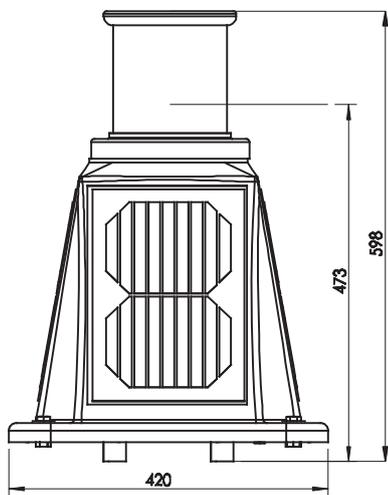


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Specifications subject to change without previous notice. Luminous ranges will be affected depending on latitude, flash rhythms and chosen options.



Options

- Infrared (IR) programmer.
- PC programming kit.
- Bluetooth programming.
- Fixing kit for 3 bolts in a 200mm diameter.
- Other specifications available under request.
- MCL 250-N-SYNC (GPS synchronization).
- MCL 250-N-TG (GSM remote monitoring).
- MCL 250-N-TR (Radio remote monitoring).
- MCL 250-N-TS (Satellite remote monitoring).
- MCL 250-N-AIS (AIS AtoN).

Optical System

Light source:	12 nos. ultra-bright LED diodes, with high-precision acrylic lens.
Luminous range:	5 nm (T=0.74) 6 nm (T=0.85).
Colours available:	Amber and blue.
Vertical divergence:	12° (50% Io).
LED average life:	More than 100,000 hours.

Electronic control

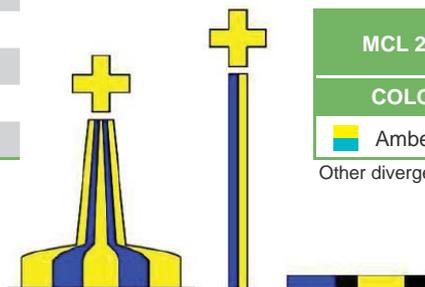
Flash rhythms:	256 (6 nos. user selectable).
Day/night threshold:	Adjustable in lux.
Solar charge regulation function:	Regulation in 3 phases.
Settings:	PC / IR programmer (optional Bluetooth).
Energy management:	Dynamic, according to latitude.
Light intensity reduction due to low battery:	Configurable by the user.

Solar modules and battery

Solar modules:	4 nos. of 7.5W each. 1 no. of 2.5W.
Battery:	40 Ah, gelled, maintenance-free.
Autonomy without solar charging:	Up to 750 hours.

Materials and environment

Base:	Reinforced polyamide and rotomoulded polyethylene.
Lens cover:	Acrylic, UV stabilised.
Vibration resistance:	MIL-STD-202G, Method 204D (5G).
Shock resistance:	MIL-STD-202G, Method 213B.
Watertightness degree:	IP 67.
Fixings:	Internal of 4 bolts in a 200mm diameter / External of 4 bolts in a 465mm diameter.
Humidity resistance:	100%. Pressure-compensation valve to avoid condensation.
Temperature range:	From -20° to 70°C.
Inside hardware:	Stainless steel.



MCL 250-N	IALA RECOMMENDATION O-133 Bu 1.0s + <u>0.5s</u> + Y 1.0s + <u>0.5s</u> = 3.0s.
COLOUR	EFFECTIVE INTENSITY
Amber/Blue	75 Cd

Other divergences available.



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