

MCL200-Ex

Marine Compact LED Lantern

9 NM



Great optical efficiency

The MCL200-Ex is a Marine LED Lantern, solar self-contained, with great optical efficiency and low consumption, fitted with LED diodes of high intensity, reaching a maximum range of 9 nautical miles and offering a big autonomy.

FEATURES

- Classification:
GROUP II: Equipment on surface (no mining).
ZONE 2: Category 3.
ATMOSPHERE: GAS.
- High-efficiency luminous system.
Up to 9 nm (T=0.74).
- Vertical divergence up to 12° (50% I₀).
- 360° horizontal output.
- Internal photocell.
- IP 68 watertightness degree (immersion resistant).
- RS-232 serial port for setting adjustments by PC.
- Autonomy without solar charging up to 450 hours.
- 4 nos. solar modules of 2.5W each.
- Patented Optical System ®.



Its luminous source consists of an innovating lens system especially designed to take the maximum profit of LED diodes, thus obtaining an output of up to 180 Cd/W.

This lantern belongs to the ATEX / IECEx Classification Group II, Category 3 assuring a high protection level. This allows the use of this lantern in potentially explosive atmospheres, classified for Zone 2.

Designed according to IALA Recommendation.

II 3G Ex nA mc II T5.



Optical System

Light source:	6 nos. ultra-bright LED diodes, with high-precision acrylic lens.
Luminous range:	Up to 9 nm (T=0.74).
Colours available:	White, green, red and amber.
Vertical divergence:	Up to 12° (50% I ₀).
LED average life:	More than 100,000 hours.
Power supply:	12 V dc.
Lantern consumption:	4 W.

MF14-Ex-SOL Electronic Flasher

Circuit based on microprocessor.
256 rhythms (6 nos. user selectable).
Internal photocell.
Solar charge regulation function in 3 phases.
RS-232 serial port for setting adjustments by PC.

Solar modules and battery

Solar modules:	4 nos. of 2.5 W each.
Battery:	16.9 Ah, Lead Crystal®, maintenance-free.
Autonomy without solar charging:	Up to 450 hours.

Materials and environment

Temperature range:	From -20° to +60°.
Base:	Glass-fibre reinforced polyamide PA66-GF30.
Lens cover:	Acrylic, UV stabilised.
Dimensions (L x W x H):	248 x 248 x 460 mm
Weight:	10 kg.
Watertightness degree:	IP 68.
Humidity resistance:	100%. Pressure-compensation valve to avoid condensation.
Fixings:	4 bolts in a 200mm diameter.

Standards and Certifications

Gas: II 3G Ex nA mc II T5
Group II: Equipment in surface (no mining).
Zone 2: Category 3.
General requirements: EN 60079-0 Standard.
Equipment protection by Type of Protection: "nA", EN 60079-15 Standard.
Equipment protection by Encapsulation: "mc", EN 60079-18 Standard.
Temperature Class: T5. 100°C.
Protection against Gas: (G).
Atex certification n°: LOM 10ATEX4025 X

Peak intensities (Cd)

Colour	Vertical divergence 5°
White	650
Green	360
Red	283
Amber	321

Options

Other specifications available under request.

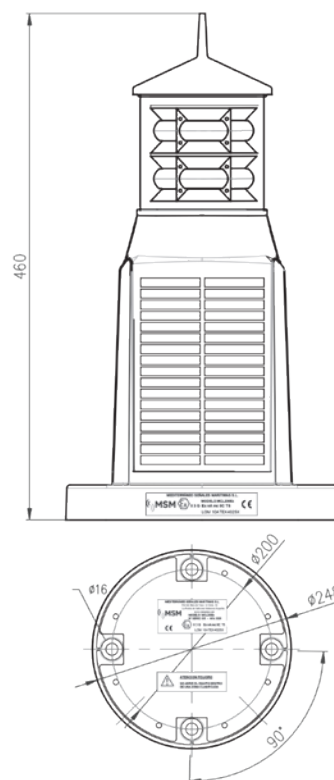
OIL & GAS EQUIPMENT

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! Specifications subject to change without previous notice.



Mediterráneo Señales Marítimas, S.L.
34 96 276 10 22
offshore@msmoffshore.com
www.msmoffshore.com