

# 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% I<sub>0</sub>).
- 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.**

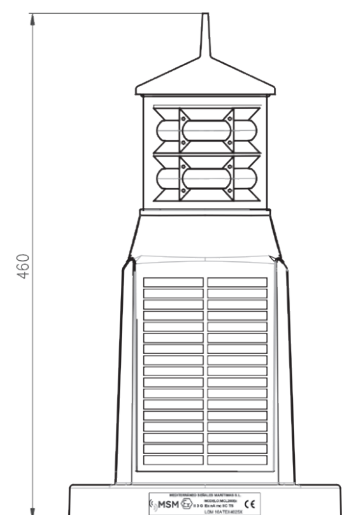
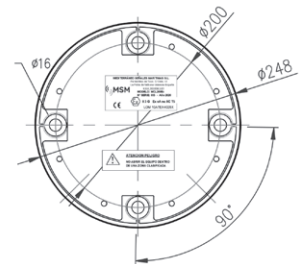
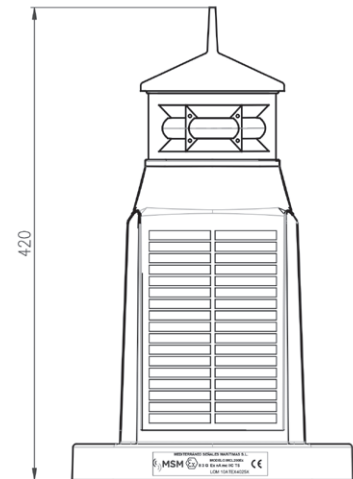
**II 3G Ex nA mc II T5.**

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! Specifications subject to change without previous notice.



### Optical System

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

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

### Materials and environment

<b>Temperature range:</b>	From -20° to +60°.
<b>Base:</b>	Glass-fibre reinforced polyamide PA66-GF30.
<b>Lens cover:</b>	Acrylic, UV stabilised.
<b>Dimensions (L x W x H):</b>	1 level: 248 x 248 x 420 mm 2 level: 248 x 248 x 460 mm
<b>Weight:</b>	9.1 kg.
<b>Watertightness degree:</b>	IP 68.
<b>Humidity resistance:</b>	100%. Pressure-compensation valve to avoid condensation.
<b>Fixings:</b>	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.



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