



MARINE COMPACT LED LANTERN

MCL 200-Ex



The MCL 200-Explosion Proof lantern is a compact LED marine 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.

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 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 Recommendations.

FEATURES

- ✓ ATEX Classification:
 - GROUP II: Equipment on surface (no mining).
 - ZONE 2: Category 3.
 - ATMOSPHERE: GAS.
- ✓ High-efficiency luminous system.
Up to 7 nm (T=0.74), 9 nm (T=0.85).
- ✓ Vertical divergence up to 12°.
- ✓ 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.**

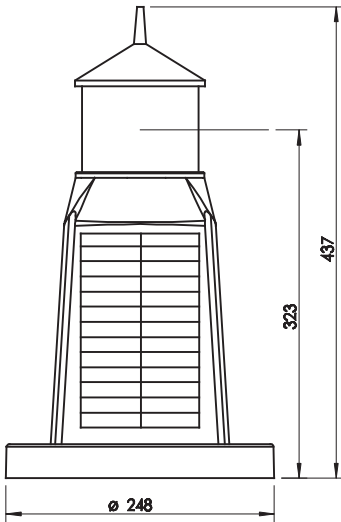


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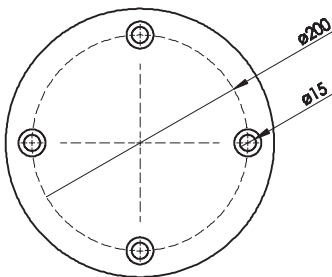
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Specifications subject to change without previous notice. Luminous ranges will be affected depending on latitude, flash rhythms and chosen options.



MCL 200-Ex with 12° vertical divergence.



Optical System	
Light source:	6 nos. ultra-bright LED diodes, with high-precision acrylic lens.
Luminous range:	Up to 7 nm (T=0.74) 9 nm (T=0.85).
Colours available:	White, green, red, and amber.
Vertical divergence:	From 5° to 12° (50% lo).
LED average life:	More than 100,000 hours.

MF14-Ex-SOL Electronic Flasher	
Circuit based on microprocessor.	
256 flash characters, selectable by using minidips.	
Solar charge regulation function in 3 phases.	
Internal photocell.	
RS-232 serial port for setting adjustments by PC.	

Solar modules and battery	
Solar modules:	4 nos. of 2.5W each.
Battery:	12 Ah, gelled, maintenance-free.
Autonomy without solar charging:	Up to 450 hours.

Materials and environment	
Base:	Glass-fibre reinforced polyamide PA66-GF30.
Lens cover:	Acrylic, UV stabilised.
Watertightness degree:	IP 68.
Fixings:	4 bolts in a 200mm diameter.
Humidity resistance:	100%. Pressure-compensation valve to avoid condensation.

Options	
Other specifications available under request.	

ATEX Certification	
Group II: Equipment in surface (no mining).	
Zone 2: Category 3.	
Atmosphere: GAS.	

MCL 200-Ex	PEAK INTENSITIES (Cd)	
	VERTICAL DIVERGENCE 5°	VERTICAL DIVERGENCE 12°
White	231	123
Green	214	135
Red	161	90
Amber	183	96

Standards and Methods of Protection	
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).	



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