

MBR300R

State-of-the-art LED Technology

The MBR300R is a medium and long-range rotating beacon, fitted with state-of-the-art LED instead of marine lamps. This provides a low-consumption and low-maintenance beacon for more than 100,000 hours. It is ideally designed for isolated solar installations, able to reach up to 23 nautical miles.

Minimum maintenance

Its compact design includes a step-by-step rotating motor and an electronic control unit inside the lantern, thus completing a watertight beacon easy to install and with minimum maintenance.

Long service life

High-quality and resistant manufacturing materials, such as glass and marine aluminium, provide a long-service life under the harshest marine conditions.

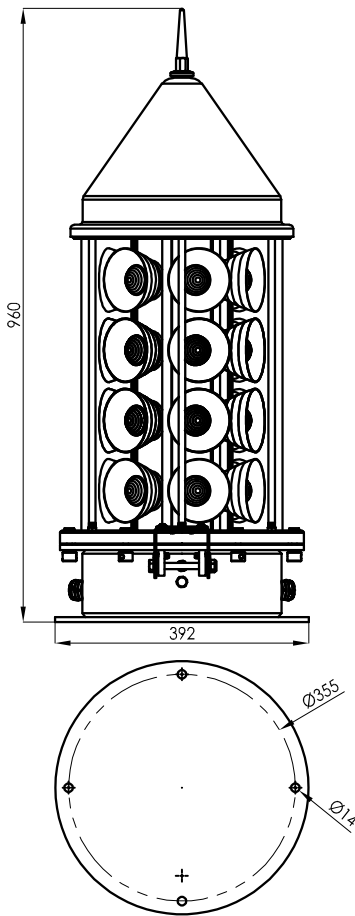
This beacon strictly meets IALA Recommendations.



FEATURES

- *State-of-the-art LED technology.*
- *Maximum-efficiency luminous system.
Up to 23 nm (T=0.74), 38 nm (T=0.85).*
- *Up to 72 W power consumption.*
- *Average operation lifetime over 15 years.*
- *No lampchanger needed.*
- *Compact design.*
- *Maintenance-free, brushless direct-drive motor.*
- *Rotating speed programmable from 0.5 to 10 rpm.*
- *Status and alarms available for remote monitoring, by opto-isolated signals and RS-232 serial port.*
- *Short-circuit, reverse-polarity and transient over-voltage protections.*
- *Easy installation.*
- *Minimum maintenance.*

MBR300R



MBR300R with four levels.

! Specifications subject to change without previous notice.

Optical system

Light source and Lens:	High-intensity LEDs and Fresnel lens with dioptric and catadioptric prisms.
Luminous range:	Up to 23 nm (T=0.74), 38 nm (T=0.85).
Power consumption:	Up to 72 W.
LED average life:	More than 100,000 hours.

Electronic rotating control

Rotating control:	Based on microprocessor.
Rotating speed:	Programmable by microswitches or PC. From 0.5 to 10 rpm.
Programmed rotating speeds:	64 (accuracy higher than 0.1%).
Day/night threshold:	Adjustable between 10 and 400 lux.
Input voltage:	From 9 to 36 V d.c.
Protections against:	<ul style="list-style-type: none"> · Short-circuit. · Reverse polarity. · Transient over-voltage.

Rotating motor

Type:	Brushless d.c. direct-drive, step-by-step motor.
Consumption:	100 mA.
Average life:	More than 15 years.

Materials and environment

Lantern:	Marine aluminium, with polyurethane finishing.
Lens cover:	Tempered glass.
Fixings:	4 bolts in a 355 mm diameter.
Watertightness degree:	IP 66.
Humidity resistance:	100%. Pressure-compensation valve to avoid condensation.
Temperature range:	From -30° to 70°C.

Options

- Other colours available.
- A.C. power supply.
- Remote monitoring modules.
- RS-485 MODBUS serial port.
- Other specifications available under request.
- MBR300L version with LED light source and Fresnel lens as an option.
- MBR300X version with xenon lamp and Fresnel lens as an option.
- MBR300HI version with halide lamp and Fresnel lens as an option.
- MBR300-S sectorised version available.

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No. of levels	Stationary Intensity I ₀ (Cd)	Effective intensity I _e (Cd)								
		Rotating speed (rpm)								
		0.5	1	1.5	2	2.5	3	4	5	6
1	129,654	107,396	92,352	82,388	74,835	68,742	63,705	55,789	49,782	45,016
2	259,308	214,792	184,704	164,776	149,670	137,484	127,410	111,578	99,564	90,032
3	388,962	322,188	277,056	247,164	224,505	206,226	191,115	167,367	149,346	135,048
4	518,616	429,584	369,408	329,552	299,340	274,968	254,820	223,156	199,128	180,064