

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 25 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.

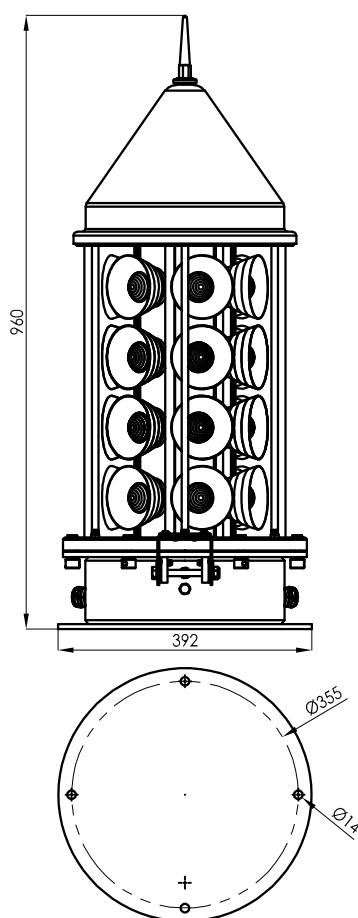


FEATURES

- State-of-the-art LED technology.
- Maximum-efficiency luminous system.
Up to 25 nm ($T=0.74$).
- Up to 100 W power consumption. Intensity adjustable by PWM.
- Average operation lifetime over 15 years.
- 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 25 nm (T=0.74).
Vertical divergence:	2° at 50% I ₀ .
Power consumption:	Up to 25 W per level.
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:	1 - 2 levels: 10 - 32 V. 3 - 4 levels: 20 - 32 V.
Protections against:	· 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 -35° to 70°C.

Options

Other colours available.
A.C. power supply.
Remote monitoring modules.
RS-485 MODBUS serial port.
Other specifications available under request.
MBR300-S sectorised version available.

MBR300R

	No. of Levels	Stationary Intensity I ₀ (Cd)	Rotating speed (rpm)								
			0.5	1	1.5	2	2.5	3	4	5	6
Effective Intensity I _e (Cd)	1	235,792	194,351	165,390	146,710	132,410	121,097	111,648	97,094	86,156	77,519
Nominal Range (T = 0.74) (NM)			21	21	21	20	20	20	20	19	19
Effective Intensity I _e (Cd)	2	471,584	388,702	330,780	293,420	264,820	242,194	223,296	194,188	172,312	155,038
Nominal Range (T = 0.74) (NM)			23	23	22	22	22	22	21	21	21
Effective Intensity I _e (Cd)	3	707,376	583,053	496,170	440,130	397,230	363,291	334,944	291,282	258,468	232,557
Nominal Range (T = 0.74) (NM)			24	24	24	23	23	23	22	22	22
Effective Intensity I _e (Cd)	4	943,168	777,404	661,560	586,840	529,640	484,388	446,592	388,376	344,624	310,076
Nominal Range (T = 0.74) (NM)			25	24	24	24	24	24	24	23	23

