

# MBR 600L

Long-range  
LED Rotating Beacon



The MBR 600L is a long-range rotating beacon, fitted with a high-intensity LED light source, able to obtain a luminous range of up to 40 nautical miles.

This equipment includes a redundant rotating system, our MRM 160 gearless and brushless double electronic rotating motor, one working as standby of the main one. This feature lends it a great reliability and availability.

High-quality and resistant manufacturing materials, such as glass and marine aluminium, complete a watertight beacon easy to install and with minimum maintenance.

All this provides an estimated lifespan of more than 25 years under the harshest marine conditions.

This beacon strictly meets IALA Recommendations.

## Features:

- State-of-the-art LED technology.
- Highest-efficiency luminous system.  
Up to 25 nm (T=0.74), 40 nm (T=0.85).
- Average operation lifetime over 25 years.
- No lampchanger needed.
- Redundant rotating system made up of double electronic, gearless and brushless rotating motor.
- High reliability and availability.
- Rotating speed adjustable in situ from 1 to 6 rpm.
- External control unit based on microprocessor, with automatic or manual operation.
- Status and alarms available for remote monitoring, by opto-isolated signals and RS-232 serial port.
- Short-circuit, reverse-polarity, over-temperature and transient over-voltage protections.
- Easy access in case of maintenance or spare replacement.

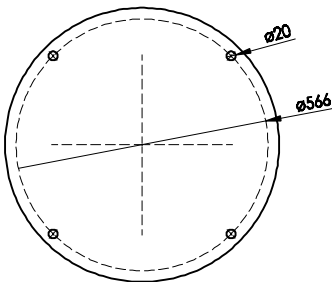
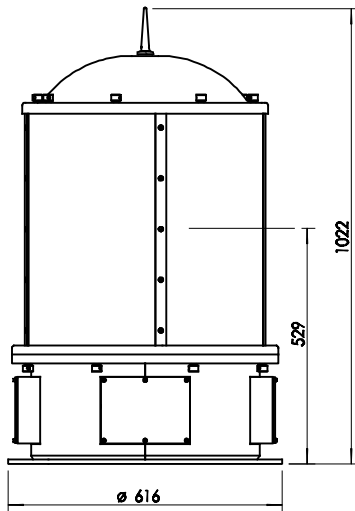


## Rotating Beacon

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Specifications subject to change without previous notice.



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### Optical system

<b>Light source:</b>	High-intensity LED lamp.
<b>Luminous range:</b>	Up to 25 nm (T=0.74) 40 nm (T=0.85).
<b>Power:</b>	Up to 80W.
<b>Lens:</b>	Acrylic moulded Fresnel, with dioptric rings.
<b>LED average life:</b>	More than 50,000 hours.
<b>Optical configuration:</b>	Hexagonal or octagonal.

### MRM 160 double rotating motor

<b>Type:</b>	Double, electronic, gearless and brushless.
<b>Regulation:</b>	Precise balance with minimum friction.
<b>Rotating speed:</b>	Adjustable in situ, from 1 to 6 rpm.
<b>Speed setting accuracy:</b>	1.3%.
<b>Motor control:</b>	Double electronic circuit.
<b>Accessibility:</b>	4 nos. lateral accesses.

### MMC 160 external control unit

<b>Functions:</b>	<ul style="list-style-type: none"> <li>- Rotation control (automatic switch-over to standby motor in case of main drive failure).</li> <li>- LED lamp control.</li> <li>- Photocell control.</li> <li>- Remote monitoring signals.</li> </ul>
<b>Operating modes:</b>	Automatic (by photocell), Manual (for maintenance) or Remote (for remote monitoring).
<b>Voltage supply:</b>	12 or 24V d.c.
<b>Remote monitoring:</b>	<ul style="list-style-type: none"> <li>- Status and alarms ready for remote control and monitoring, by opto-isolated signals.</li> <li>- RS-232 or RS-485 serial port.</li> </ul>

### Materials and environment

<b>Lantern:</b>	Marine aluminium, with polyurethane finishing.
<b>Lens cover:</b>	High-resistance glass.
<b>Watertightness degree:</b>	IP 66.
<b>Humidity resistance:</b>	100%. Pressure-compensation valve to avoid condensation.
<b>Temperature range:</b>	From -30° to 70°C.

### Options

Other colours available.

A.c. power supply.

Remote monitoring modules.

Other specifications available under request.

### Stationary and effective intensities (Cd)

	Stationary intensity (White) (Cd)	Effective intensity		
		Rotation speed (rpm)		
		0.50	1	1.5
55W LED	677,000	451,333	338,500	270,800
80W LED	1,025,000	683,333	512,500	410,000

	Effective intensity				
	Rotation speed (rpm)				
	2	2.5	3	4	5
55W LED	225,667	193,429	169,250	135,400	112,833
80W LED	341,667	292,857	256,250	205,000	170,833