

MBR 600 Long-range Rotating Beacon

The MBR 600 is a long-range compact rotating light, especially designed for remote solar lighthouse installations, able to reach 38.3 nautical miles.

Its particular design, optimum optical efficiency and manufacturing materials, such as UV stabilised acrylic, glass and marine aluminium, compound a watertight beacon very resistant to corrosive marine environment, with minimum maintenance.

The MBR 600 uses our MRM 160 double electronic, gearless and brushless rotating motors, ready to be remote controlled and monitored.

All related IALA Recommendations are met.

Optical System

- High-efficiency acrylic Fresnel lenses.
- 6 or 8-lens panels with dioptric prisms.
- 200mm focal distance.
- UV Resistant lenses.
- Automatic lampchanger of 2, 3 or 6 positions.
- Nominal visibility range up to 24 n.m. (T=0.74). Range of 38.3 n.m. (T=0.85).

MRM 160 Rotating Motor

- F
E
A
T
U
R
E
S
- High reliability and availability.
 - Electronic gearless and brushless double motor.
 - One only slow-moving assembly (shaft, rotor and rotating plate).
 - Automatic switch-over to standby motor in case of main drive failure.
 - Precise balance with minimum friction.
 - Field-adjustable rotating speed from 1 to 6 rpm.
 - Speed setting accuracy: 1.3%.
 - Good accessibility, easy part replacement.

MMC 160 Motor Control Unit

- Manual and automatic motor operation.
- Operation status and alarms for both motors.
- Photocell-control or 24h-rotation selection.
- Automatic motor changing.
- Voltage supply: 12 or 24V DC.
- Lamp & alarm operation status control.
- Electromagnetic compatibility



- Protection class: IP 65.
- Status and alarms ready for remote control and monitoring, by opto-isolated signals and RS-232 serial port. Easy interface.

Lamps

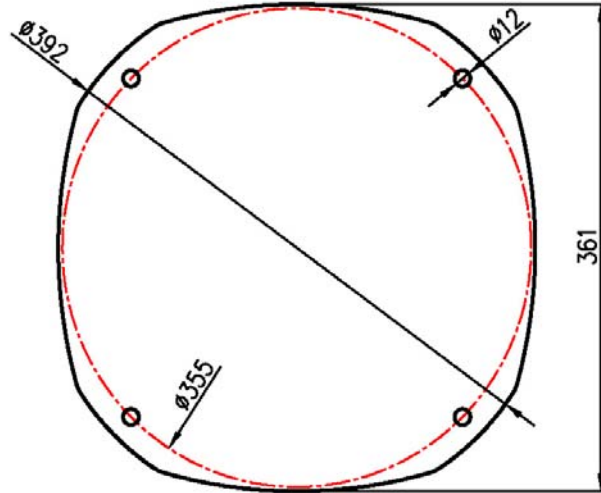
- Wide choice of lamps, AC or DC, metal-halide or halogen lamps.
- Study on most suitable lamp, according to required lighthouse range and available power supply system.



MBR 600 Long-range Rotating Beacon

MLC 160 Lamp Control Unit (for AC and metal-halide lamps)

- Microprocessor controlled circuit.
- User-friendly configuration, by keyboard and screen.
- Photocell-controlled or manual-operation selector.
- Status and alarms ready for remote control and monitoring, by opto-isolated signals and RS-232 serial port. Easy interface.
- Protection class: IP 65
- Electromagnetic compatibility



Materials and Environment

- Glass lens cover (longest life).
- Marine aluminium lantern, Teflon coat.
- Acrylic dioptric lenses.
- 100% humidity resistant.
- Operating temperature:-30° to 70° C.
- Protection class:IP 66.

Shipping Data (rotating beacon only)

- Net weight:92 Kg.
- Shipping weight:112 Kg.
- Package size (Wooden):65 x 65 x120 cm.

MBR 600	STATIONARY INTENSITY (Cd)	EFFECTIVE INTENSITY							
		ROTATION SPEED (rpm)							
		0.67	1.00	1.43	1.67	2.00	2.50	3.00	5.00
LAMPS									
12V 10W Hal	130,000	51,212	39,302	30,256	26,825	23,151	19,205	16,408	10,368
12V 20W Hal	180,000	88,280	70,355	55,791	50,036	43,722	36,764	31,716	20,473
12V 35W Hal	279,000	151,478	123,300	99,502	89,866	79,137	67,117	58,267	38,147
12V 50W Hal	325,000	201,190	169,000	140,166	128,030	114,189	98,256	86,224	57,877
12V 100W Hal	370,000	241,304	205,556	172,667	158,571	142,308	123,333	108,824	74,000
12v 35w Xenon	1,500,000	800,610	726,125	594,320	540,000	477,333	407,857	355,420	235,660
HQI-T 70w 220v	600,000	428,571	375,000	323,077	300,000	272,727	240,000	214,286	150,000
HQI-T 150w 220v	800,000	607,229	541,935	476,113	446,018	409,756	365,217	329,412	236,620



MEDITERRÁNEO SEÑALES MARÍTIMAS, S.L.L.
 Polig. Ind. Mas de Tous, calle Belgrado, nave 6 • 46185 La Pobla de Vallbona (Valencia) SPAIN
 Tel.: +34 96 276 10 22 • Fax: +34 96 276 15 98 • VAT No.: ESB-97686158
mesemar@mesemar.com • www.mesemar.com

