

## MBR 900 Major Rotating Beacon

The MBR 900 is the longest-range rotating beacon of our range. It is a real compact lighthouse especially designed to be a solar powered lightstation able to reach 42 nautical miles.

Its genuine 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 900 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.
- 300mm focal distance.
- UV Resistant lenses.
- Automatic lampchanger of 2, 3 or 6 positions.
- Nominal visibility range up to 26 n.m.(T=0.74). Range of 42 n.m. (T=0.85).

### MRM 160 Rotating Motor

- 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, 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

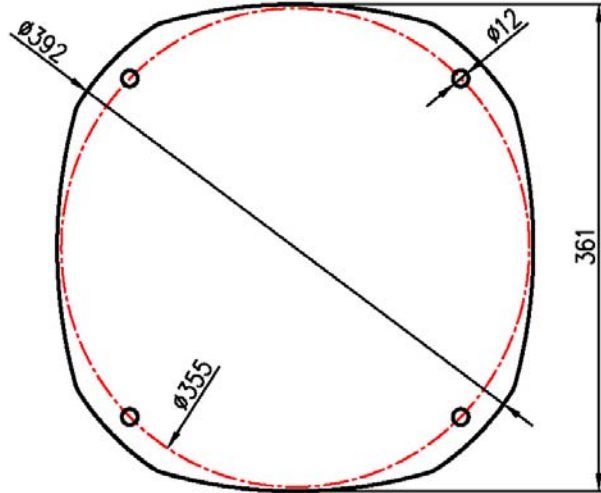
- Wide choice of lamps, AC or DC, metal-halide or halogen lamps.
- Study on most suitable lamp, according to required lighthouse range and available power supply system.



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## 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: .....190 Kg.
- Shipping weight: .....210 Kg.
- Package size (Wooden): 110 x 110 x 130 cm.

MBR 900	STATIONARY INTENSITY (Cd)	EFFECTIVE INTENSITY							
		ROTATION SPEED (r.p.m.)							
LAMPS		0.67	1.00	1.43	1.67	2.00	2.50	3.00	5.00
12V 20W Hal	430,000	165,385	126,471	97,097	86,000	74,138	61,429	52,439	33,077
12V 35W Hal	590,000	240,370	185,429	143,312	127,255	110,000	91,408	78,193	49,542
12V 50W Hal	565,000	282,500	226,000	179,773	161,429	141,250	118,947	102,727	66,471
12V 100W Hal	750,000	434,211	358,696	293,147	266,129	235,714	201,220	175,532	116,197
24V 150W Hal	1,020,000	631,429	530,400	439,905	401,818	358,378	308,372	270,612	181,644
HQI-T 70w 220v	1,300,000	780,000	650,000	535,294	487,500	433,333	371,429	325,000	216,667
HQI-T 150w 220v	1,750,000	1,113,636	942,307	786,697	720,588	644,736	556,818	490,000	331,081

