

## Rotating beacons

### BGA850 • MAJOR ROTATING BEACON



The BGA850 is a rotating light for major lighthouse systems, achieving ranges of up to 28 n.m. with 2,900,000 Cd of effective intensity.

The optical equipment uses acrylic moulded lenses of high accuracy and optical efficiency of 360 mm focal distance and 720 mm height. Low energy consumption allows operation from a low voltage DC photovoltaic solar system.

The installation is very simple and safe, by using the MGE150, electronic gearless double motor pedestal.

#### Features

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- 720 mm height x 360 mm focal-distance acrylic moulded lenses.
- MGE150 electronic gearless & brushless motor, with only one moving assembly (shaft, rotor and turntable).
- The MGE150 is a double motor. It forms two independent units for increasing safety.
- Wide choice of lens configurations.
- CLC series lampchanger.
- Standard CMA130 and CMB200 Control Units control the light system operation.
- Very simple and safe installation, low maintenance.
- High reliability and availability, proven by field experience over many years.
- The power supply for the BGA850 rotating beacons can be either AC or low voltage DC.
- Totally suited for solar power operation in remote lighthouses.
- Status and alarms of motor, lamps and batteries ready for monitoring and remote control, by opto-isolated signals.

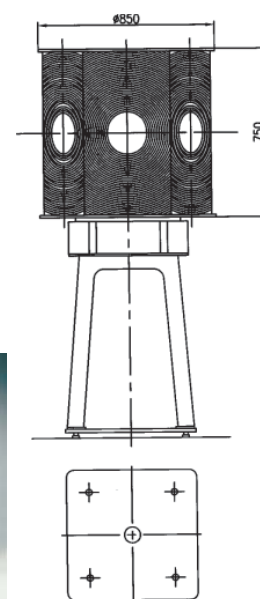
#### Range of lamps

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- Prefocused halogen lamps: 12 V / 100 W and 24 V / 150 W.
- High-intensity metal halide discharge lamps, from 35 W to 575 W, 220 V AC.
- Xenon discharge lamps, 12 V DC 6,000 life hours.

## Technical specifications

- Luminous nominal range of up to 28 n.m. ( $T = 0.74$ )
- 360 mm focal distance acrylic moulded lenses, 720 mm high.
- Hexagonal and octagonal standard lens configurations. Other lens arrangements and blanking panels available.
- Light colours in clear, red, green and yellow (according to IALA Recommendations).
- Possibility of sector lights in different colours.
- MGE150 gearless and brushless double rotating motor-pedestal.
- Rotation speed: 0.66 to 6 rpm.
- Maximum lamp power: 1,000 W.
- Voltage supply: 12 or 24 V DC, or any AC voltage.
- Power Consumption: 15 W more consumption of lamp.
- Optional UCA 130 remote alarm unit.
- Ready to be connected to Remote Monitoring & Control Systems.
- Electromagnetic Compatibility **CE**



Equipment	Net weight	Packing	Dimensions
BGA850	190 kg	Wooden	100 x 100 x 130 cm (1.3 m <sup>3</sup> ) 221 kg
CMA130	34 kg	Wooden	80 x 60 x 50 cm (0.24 m <sup>3</sup> ) 38 kg
CMB200	4.6 kg	Wooden	30 x 40 x 22 cm (0.026 m <sup>3</sup> ) 11 kg

BGA850	Fixed intensity (Cd)	Hexagonal array								
		Effective intensity (Cd)								
Lamps		Rotation speed (rpm)								
		0.66	1	1.5	2	2.5	3	4	5	6
Hal 100 W / 12 V	810.000	429.025	347.143	270.000	220.909	186.923	162.000	127.895	105.652	90.000
Hal 150 W / 24 V	1.100.000	611.383	500.000	392.857	323.529	275.000	239.130	189.655	157.143	134.146
HI 35 W / 220 V	1.125.000	675.270	562.500	450.000	375.000	321.429	281.250	225.000	187.500	160.714
HI 70 W / 220 V	1.595.000	1.014.096	857.769	696.938	586.895	506.864	446.040	359.710	301.378	259.326
HI 150 W / 220 V	2.045.000	1.391.521	1.199.203	993.626	848.217	739.934	656.168	535.029	451.648	390.752
HI 575 W / 220 V	4.670.000	2.972.899	2.514.615	2.043.125	1.720.526	1.485.909	1.307.600	1.054.516	883.514	760.233

BGA850	Fixed intensity (Cd)	Octogonal array								
		Effective intensity (Cd)								
Lamps		Rotation speed (rpm)								
		0.66	1	1.5	2	2.5	3	4	5	6
Hal 100 W / 12 V	650.000	344.280	278.571	216.667	177.273	150.000	130.000	102.632	84.783	72.222
Hal 150 W / 24 V	915.000	508.559	415.909	326.786	269.118	228.750	198.913	157.759	130.714	111.585
HI 35 W / 220 V	955.000	573.229	477.500	382.000	318.333	272.857	238.750	191.000	159.167	136.429
HI 70 W / 220 V	1.225.000	779.192	659.077	535.500	450.947	389.455	342.720	276.387	231.568	199.256
HI 150 W / 220 V	1.575.000	1.071.343	923.276	765.000	653.049	569.681	505.189	411.923	347.727	300.843
HI 575 W / 220 V	3.995.000	2.543.198	2.151.154	1.747.813	1.471.842	1.271.136	1.118.600	902.097	755.811	650.349

These values are for white colour and exclude lanternhouse losses.