

## Rotating beacons

### BGL300-XW • COMPACT MARINE ROTATING LED BEACON



The BGL300-XW is a high-quality and high-intensity short-focus rotating LED beacon.

It is compact, lightweight and suitable for solar or standard DC power supplies.

Providing nominal ranges in excess of 20 n.m., and 31 n.m. for  $T = 0.85$

It may be used as a medium-range landfall light or to mark headlands, entrances to estuaries, ports, hazardous reefs, etc.

It is especially suited where durability and resistance to very adverse and severe marine environment are required.

## Features

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- High-efficiency acrylic moulded Fresnel lenses type ODA105
- 300 mm diameter, high optical-quality glass lens cover of long duration, resistance and transparency.
- Constructed in marine-grade resistant materials.
- DC direct-drive stepping motor, continuous or photo cell controlled operation.
- Dedicated microprocessor controlled, smart user-friendly software.
- Unsurpassed stability & reliability.
- Accurate field programmed rotational speed, from 0.5 to 10 rpm
- High precision LED current regulation.
- Minimum operating and maintenance assistance.
- Status and alarms of motor, batteries and LED's cluster for monitoring and remote control.

## Range of lamps

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- Standard DC power supply.
- Ideal for solar powered stations.
- 3 W per lens. Up to 18 W

## Technical specifications

- Nominal visibility range of 20 n.m. (T = 0.74). Range of 31 n.m. for T = 0.85
- Standard hexagonal optical arrangement. Octagonal on request.
- 105 mm focal-distance Fresnel lens.
- 300 mm diameter, high optical quality glass lens cover.
- Light colours available in white, red, green and yellow (according to IALA Recommendations)
- DC direct-drive stepping motor.
- Microprocessor controlled.
- Beacon support adapted to 200 mm Ø
- Vertical divergence: 1,83° @ 50 % I<sub>0</sub>
- Operational lifetime of LEDs > 100,000 h
- Service Life: 7/8 years.
- Short circuit protection.
- Reverse polarity protection.
- Level indicator on lantern.
- Programmable rotation speed from 0.5 to 10 rpm
- Fine electronic speed adjustment. Accuracy better than 0.1 %
- Status and alarms of motor, batteries and LED's cluster for monitoring and remote control.
- Input voltage 8 - 35 V DC, wide range on request. Any other AC voltage using AC-DC converter.
- Beacon consumption: 120 mA @ 1 rpm. + lamp current.
- Watertightness degree: IP-68
- Electromagnetic compatibility **CE**
- Temperature range: -20 to 60 °C°
- Net Weight: 18 kg Total: 28 kg
- Shipping Data: 50 x 50 x 100 cm (0,25 m<sup>3</sup>) 44 kg (wooden)

LED	Fixed intensity	Range mn	Rotation speed (rpm)																
			10	8,33	7,5	6	5,45	5	4,29	4	3,75	3,53	3,33	3,52	3	2,86	2,61	2,5	2,4
3W	155.896	15 - 20	17.322	20.335	22.271	26.878	29.065	31.179	35.207	37.117	38.975	40.776	42.520	40.879	45.852	47.448	50.511	51.966	53.389

LED	Fixed intensity	Range mn	Rotation speed (rpm)																
			2,31	2,22	2,14	2,07	2	1,88	1,67	1,58	1,5	1,43	1,25	1,11	1	0,91	0,77	0,67	0,5
3W	155.896	15 - 20	54.785	56.123	57.450	58.732	59.960	62.359	66.814	68.885	70.862	72.767	77.948	82.534	86.609	90.259	96.518	101.675	111.355

These values apply to white colour and hexagonal arrangement.

