

RBM-3

Racon




The RBM-3 is a latest-generation (frequency-agile) Radar Beacon, which works in the marine X and S radar bands, providing an important information to mariners under whatever meteorological conditions.

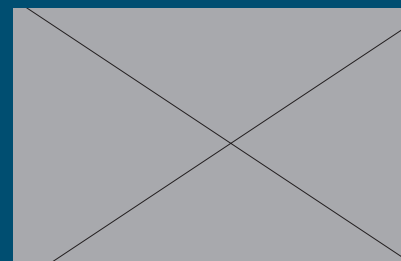
The RBM-3 benefits from the latest electronic technologies like field programmable timers.

The Racon actively answers all active radars in the vicinity with a user programmed Morse code which identifies its location by appearing on the radar display.

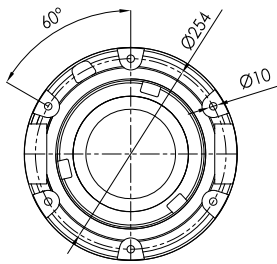
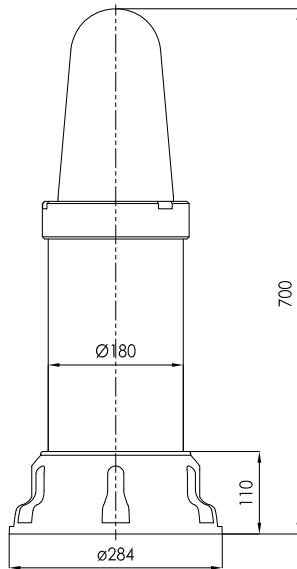
Designed according to IALA Recommendations and IMO Standards.

Features:

- Response on X and S bands.
- Advanced Side-Lobe Suppression system (SLS) to better discriminate the genuine pulses to be responded.
- The length of the Morse code response matches the display range setting by programming the duration of the answer according to the pulse length before installation.
- Transmitter power: 1W in both bands.
- Configurable receiver sensitivity.
- RS-232 communication serial port.
- Configuration via PC.
- Wide power supply range.
- Low power consumption.
- Light weight.
- Maintenance free.
- ATEX version as an optional .



RBM-3



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Specifications

Response encoding:	15 nos. Morse codes, according IMO A530. (Others under request).
Output power:	Typical 1W (X and S bands).
Response delay:	<700 ns (X and S bands).
Speed response (each band):	10 KHz.
Azimuth response:	360°.
Communications and programming:	RS-232 serial port. 3 nos. status logic outputs. 1 no. control logic input.
Programmable activity:	0 to 60 seconds.
Programmable idle mode:	0 to 60 seconds.
Side-Lobe Suppression (SLS):	Advanced.
Temperature range:	From -40° to +70°C.
Materials:	Aluminium and polyamide.
Watertightness degree:	IP 67.
Weight:	15 kg.
Fixings:	6 nos. Ø10 drill holes each 60° in a 254mm diameter.

Frequency range

X band:	9,300-9,500 MHz.
S band:	2,900-3,100 MHz.

Receptor sensitivity (adjustable)

X band:	-50 dBm.
S band:	-50 dBm.

Antenna

Broadcasting uniformity:	±2 dB in X+S bands over 360° (horizontal).
Vertical divergence:	±15°.

Polarisation

X Band:	Horizontal.
S Band:	Horizontal and vertical.

Accessories

- Programming cable.
- Power cable.
- User manual.

Power supply voltage

Nominal:	12V d.c.
Minimum:	10V d.c.
Maximum:	32V d.c.

Options

- Power supply range from 9 to 36V d.c.
- ATEX version.
- Interface module for remote monitoring.

Power consumption

Average nominal:	100 mA.
Maximum:	700 mA.
Idle:	<20 mA.