

RBM04-Ex

Racon



To be installed in hazardous areas

The RBM04 Explosion Proof is a latest-generation (frequency-agile) Radar Beacon, which works in the marine X and S radar bands, with ATEX Classification to be installed in hazardous areas, such as offshore platforms.

FEATURES

- Classification:
GROUP II: Equipment on surface (no mining)
ZONE 1: Category 2
ATMOSPHERE: GAS
- 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 receptor sensitivity.
- RS-232 communication serial port.
- Configuration via PC.
- Wide power supply range.
- Low power consumption.
- Maintenance free.



The RBM04-Ex benefits from the latest electronic technologies applied to AtoN radar systems, such as field programmable arrays and 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 Recommendation and IMO Standards.

II 2G Ex db eb IIB T6 Gb.

Specifications

Response encoding:	A-Z, 0-9, SW-SE-NE-NW Morse codes, according IMO A530.
Output power:	Typical 1 W (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. logic outputs. 1 nos. logic input.
Programmable activity:	0 to 60 seconds.
Programmable idle mode:	0 to 60 seconds.
Side-Lobe Suppression (SLS):	Advanced

Materials and environment

Temperature range:	-20° C to +60° C
Materials:	AISI316 stainless steel and polyamide.
Dimensions (L x W x H):	284 x 284 x 710 mm.
Weight:	35 kg.
Watertightness degree:	IP 67.
Fixings:	6 nos. Ø10 drill holes each 60° in a 254 mm diameter.

Frequency range

X band:	9,300-9,500 MHz.
S band:	2,900-3,100 MHz.
Frequency accuracy:	< +/- 2 Mhz (<200ns), > +/- 1 Mhz (>200ns).

Receptor sensitivity (adjustable) / Polarisation

X band:	-50 dBm / Horizontal.
S band:	-50 dBm / Horizontal and vertical.

Antenna

Broadcasting uniformity:	X Band: -4 dBi ±2 dB Horizontal over 360° (horizontal). S Band: -2 dBi ±0.5 dB Horizontal.
Vertical divergence:	X Band: 26°. S Band: 34°.

Power supply voltage

Nominal:	12 V d.c.
Minimum:	9 V d.c.
Maximum:	36 V d.c.

Power consumption

Average nominal:	120 mA.
Maximum:	700 mA.
Idle:	6 mA - 12V.

Standards and Certifications

Gas: II 2G Ex db eb IIB T6 Gb
Group II: Equipment in surface (no mining).
Zone 1: Category 2.
General requirements: EN 60079-0 Standard.
Equipment protection by Increased Safety: "eb", EN 60079-7 Standard.
Equipment protection by Flameproof Enclosure: "db", EN 60079-1 Standard.
Temperature Class: T6. 85°C.
Protection against Gas: (G).
Atex certification n°: LOM 17ATEX1028X

Accessories

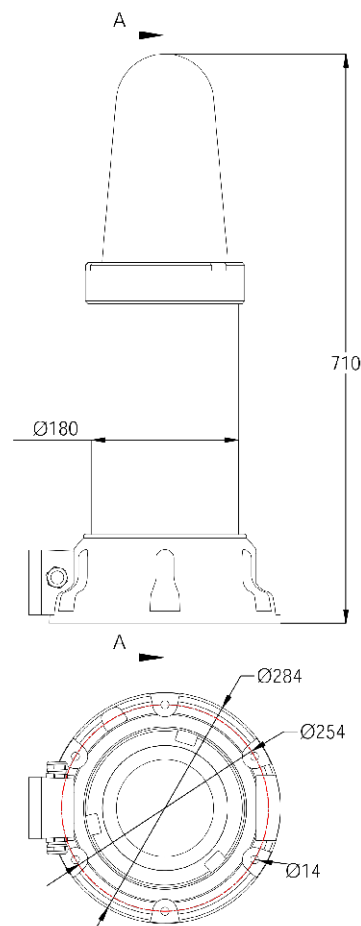
Programming cable.
User manual.

OIL & GAS EQUIPMENT

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! Specifications subject to change without previous notice.



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