Pharos Marine Automatic Power

BROCHURE

PHALCON-EX-SS

X and S Radar Beacon (RACON)

ATEX/IECEX version for ZN1

PHALCON-EX-SS

OVERVIEW

RACONS are important all-weather aids to navigation, which provide radar range and bearing information to ships for safe and efficient navigation 24 hours a day. The Phalcon-XS is energy efficient, compact and lightweight RACON designed for superior performance on Navigation Buoys, CALM, SPM Buoys, Offshore Structures and FPSOs. This model is also available as Phalcon-EX-SS-SX RACON adapted for Zone 1 applications. This allows both X and S bands in an Ex rated unit.

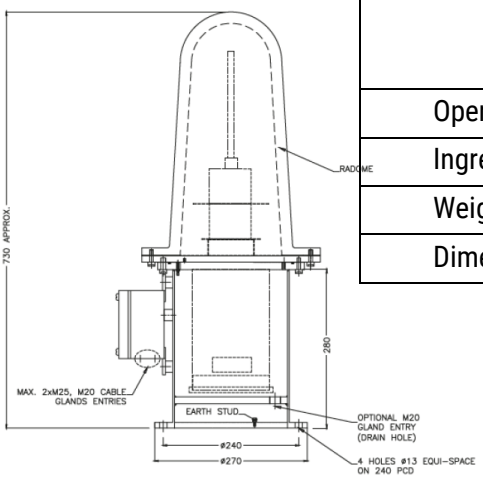
CERTIFICATES

ATEX Certificate : ITS16ATEX101048X
IECEx Certificate : IECEx ITS16.0046X
Coding: Ex db eb mb[ibGb] IIB T5 Gb Tamb -40°C to +55°C

KEY FEATURES

- No pressurization needed
- Extremely effective and reliable
- Frequency agile
- Side lobe suppression (SLS)
- Automatic self test feature
- Stainless Steel 316L base
- IALA and IMO compliant
- Proportional scaling
- Harbor blanking
- 26 Morse code character set
- RS232 or RS485 comms port

SPECIFICATONS ZN1 VERSION	
Frequency Range	X band: 9300~9500MHz S band: 2900~3100MHz
Frequency Accuracy	±1MHz
Response Code	26 Morse codes
Output Power to Antenna	1.5W
Response Delay	≤0.5μs
Receiver Sensitivity	-50dBm
Antenna Gain	X band: 5db S band: 2db
Polarization	X band: Horizontal S band: Horizontal and Vertical
Azimuth Response	360º
Max. Response Rate	10 kHz
Duty Cycle	7-60 s
Serial Port	RS232 or RS485
Side-Lobe Suppression (SLS)	Advanced
Input Voltage	DC12V (9~36V) or AC (88~264V)
Average Power Consumption	2.5W, based on traffic condition. Maximum 500 mA
Idle Power Consumption	9mA
Materials	Base: 316 Stainless Steel Dome: GRP Terminal Box: 316 Stainless Steel
Protection	Against inverse polarity and struck by thunder lightning
Installing Dimension	4xM10 on 240 PCD
Certification:	ATEX Certificate: ITS16ATEX101048X IECEx Certificate: IECEx ITS16.0046X Coding: Ex II 2 G Ex db eb mb [ibGb] IIB T5 Tamb -40˚C to +55˚C Gb Ingress Protection: IP-66
Standards:	Directive 2014/34/EU, Annex II ITU-R M824-4 EMC Directive 2014/30/EU; • EN6100-6-4:2007+A1 :2011 • EN61000-6-2:2005
Operation Temperature	-40℃ to +55℃
Ingress Protection	IP 66
Weight	≤25kg
Dimension（X/S band）	Φ270mm×730mm; Handle Φ360mm



**All values are subject to change without notice.*

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