

VDX05EX

Explosion proof fog detector / visibility meter

The fog detector (visibility meter) provides automatic activation of the foghorns at preset meteorological conditions and can be used in conjunction with the Navaid Central Control Panel (NCCP).



KEY FEATURES

- Reliable visibility meter / fog detector
- Low cost of ownership
- Certified for Zone 1 areas with gas explosion hazard
- Continuous visibility metering to trigger foghorns and/or lights
- Designed to meet the harsh offshore environment (salt, water etc.)
- Robust 316 stainless steel, light weight design, suitable for pole mounting which can be supplied as an option
- Easy to install with spacious, easy to open junction box for quick opening and cable connection (opening by just 4 stainless steel retaining bolts)

ELECTRICAL CHARACTERISTICS

- Operating voltage: see table
- Power supply connection details: max. 4 mm²; two M25x1.5 cable gland entries
- Earth connection: internal M5 and external M6
- Over-voltage protection provided

STANDARDS/CERTIFICATION

- Cenelec EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-18
- KEMA 05ATEX2189; ATEX Ex II 2G Ex db eb mb IIB T5 Gb
- IEC60079-0, IEC60079-1, IEC60079-7 and IEC60079-18
- IECEx DEK 11.0104; Ex db eb mb IIB T5 Gb
- ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-1 and ABNT NBR IEC 60079-7 (optional)
- Inmetro NCC 13.1771 (optional)

PERFORMANCE CHARACTERISTICS

- Back scatter operating principle
- Laser LED long life light source, class 3R
- Range: 20 to 10,000 meter / 0.01 to 5.4 NM
- Measurement time interval 60 s
- Software controlled anti-dew window heater

PHYSICAL CHARACTERISTICS

- Dimensions (L x W x H): 475 x 150 x 314 mm
- Weight: 20 kg
- Degree of protection: IP66
- Operating temperature range: -40° C to +55° C
- Designed for pole mounting outer diameter Ø 52 mm / 2 inches

SYSTEM DESIGN, CONTROL AND MONITORING (OPTIONAL)

- Prepared for Orga's future comprehensive remote integrity monitoring system
- Self monitoring of basic functions as a standard

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| Type | Supply voltage | Power consumption AC | Power consumption DC | Power consumption heater | Interfacing |
|---------------------|--|----------------------|----------------------|--------------------------|--|
| VDX05EX-NNNi | 100-240 Vac; 50/60 Hz or 10-32 Vdc | 5 W / 10 VA | 3.1 W | 2.5 W (5 VA) | Set point 1: SPCO contact 2A (non inductive) default set to 1,500 meter Set point 2: SPCO contact 2A (non inductive) default set to 3,700 meter Analogue visibility output 4-20mA |
| VDX05EX-NON | 100-240 Vac; 50/60 Hz or 10-32 Vdc | 4 W / 8 VA | 2.5 W | 2.5 W (5 VA) | Digital OrTalk communication bus for the Digital NCCP system Analogue visibility output 4-20mA |
| VDX05EX-N-DC | 10-32 Vdc | NA | 2.5 W | 2.5 W | Digital OrTalk communication bus for the Digital NCCP system |

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