

# 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 mm<sup>2</sup>; 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

### 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
<b>VDX05EX-NNNi</b>	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
<b>VDX05EX-NON</b>	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
<b>VDX05EX-N-DC</b>	10-32 Vdc	NA	2.5 W	2.5 W	Digital OrTalk communication bus for the Digital NCCP system

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