

Flameproof Ammonia Detector-Transmitter E2670-NH3-P



Features

- Aluminium pressure die-casting enclosure
- Suitable for ATEX Zones 2 and 22
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Relay option

Specifications

Calibration	Ammonia NH ₃
Sensor type	Pellistor (catalytic bead)
Sampling method	Diffusion
Typical detection range	0...15%vol. (0...100%LEL NH ₃)
Resolution	0.1%vol. or 1%LEL
Response time T90	≤10 s
Sensor lifetime	> 3 years
Calibration interval	6 months
Signal update	Every 1 second
Self-diagnostics	Full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	12...36 VDC (default), 24 VAC or 230 VAC as options
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	Recommended: 20-100% of the range; > 10 × resolution in any case Analog output scale can be set according to customer's requirement (e.g. 0...4%vol. NH ₃)
Enclosure	Grey die-cast aluminium, wall-mount, protection class IP65
Dimensions	H155 × W145 × D110 mm
Operating environment	Industrial indoor and outdoor locations ATEX Zones 2 and 22 as well as explosion-safe areas
Operating conditions	-10...+50 °C 0...95% RH non condensing; 0.9...1,1 atm Explosion-safe areas; Normal ambient oxygen level; Avoid exposure to corrosive gases or silicone containing products.

Relay option (ordering code R)

Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
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Approvals

Enclosure:

ATEX / IECEx
FTZU 03 ATEX 0207U
IECEX FTZU 12.0017U



II 2 G Ex db IIC Gb

II 2 D Ex tb IIIC Db IP65

Glands:

ATEX / IECEx

EESF 19 ATEX 023X



II 2G Ex db IIC Gb

II 2D Ex tb IIIC Db IP66

CE conformity

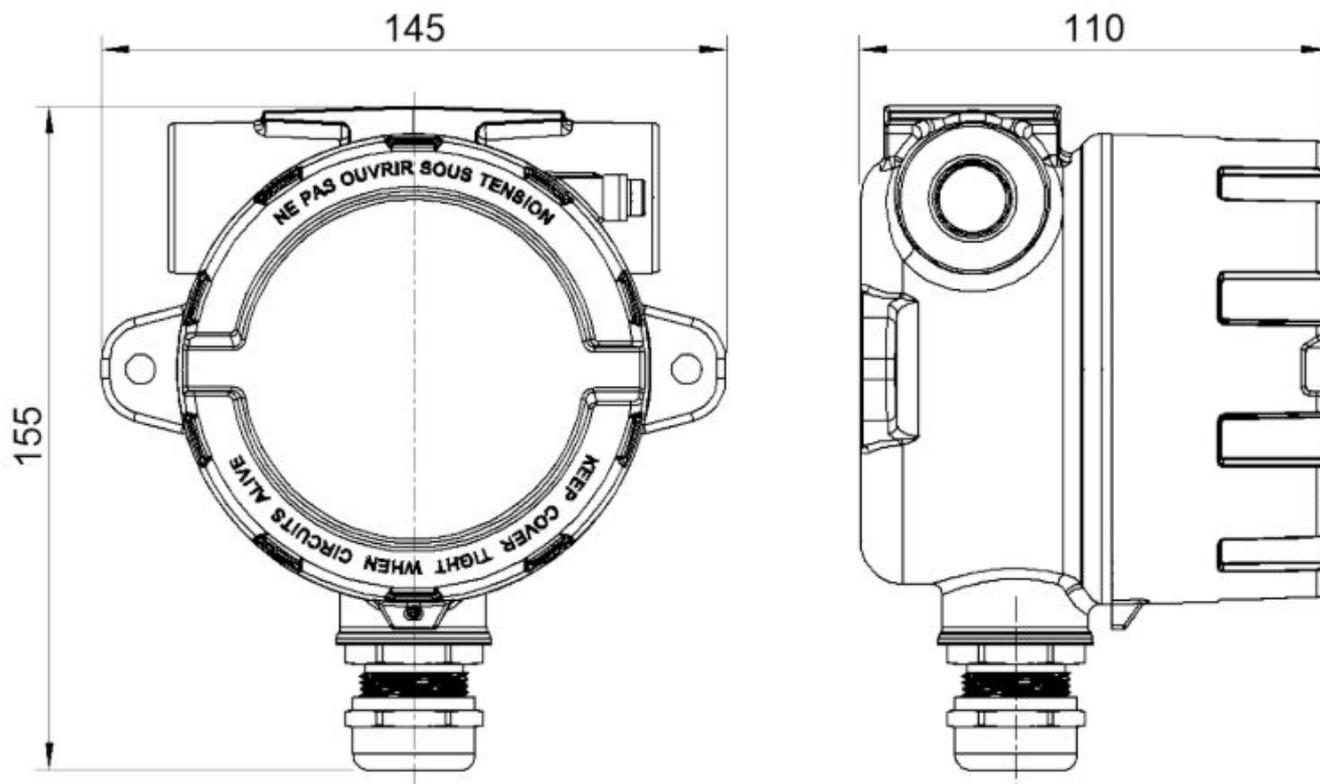
Flameproof to IEC EN 60079-0, EN 60079-1,
EN 60079-31

EMC Emissions to EN 61000-6-3, EN 61326-1

EMC Immunity to EN 61000-6-1, EN 61000-6-2



Dimensions



Mounting holes

