

Flameproof Solvent Vapours Detector-Transmitter E2670-VOC



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

Detected gases	Toluene, xylene, ethanol etc
Default calibration	Toluene
Sensor type	Metal oxide semiconductor
Sampling method	Diffusion
Typical detection ranges	0...1000 ppm (toxic range) 0...100% LEL (flammable range)
Resolution	1 ppm for toxic ranges 0,1 % LEL for flammable range
Response time T90	< 120 s
Sensor life-time	> 5 years
Calibration interval	12 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
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	-40...+70°C; <95% RH non-condensing; 0,9...1,1 atm; Explosion-safe areas Normal ambient oxygen level Avoid exposure to corrosive gases or volatile silicone containing products.

Relay option (ordering code R)

Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm setpoints	LOW: set 100 , release 80 ppm HIGH: set 300, release 240 ppm (for the range 0...1000 ppm) LOW: set 20 , release 16 %LEL HIGH: set 50, release 40 %LEL (for flammability range)

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

Glands:

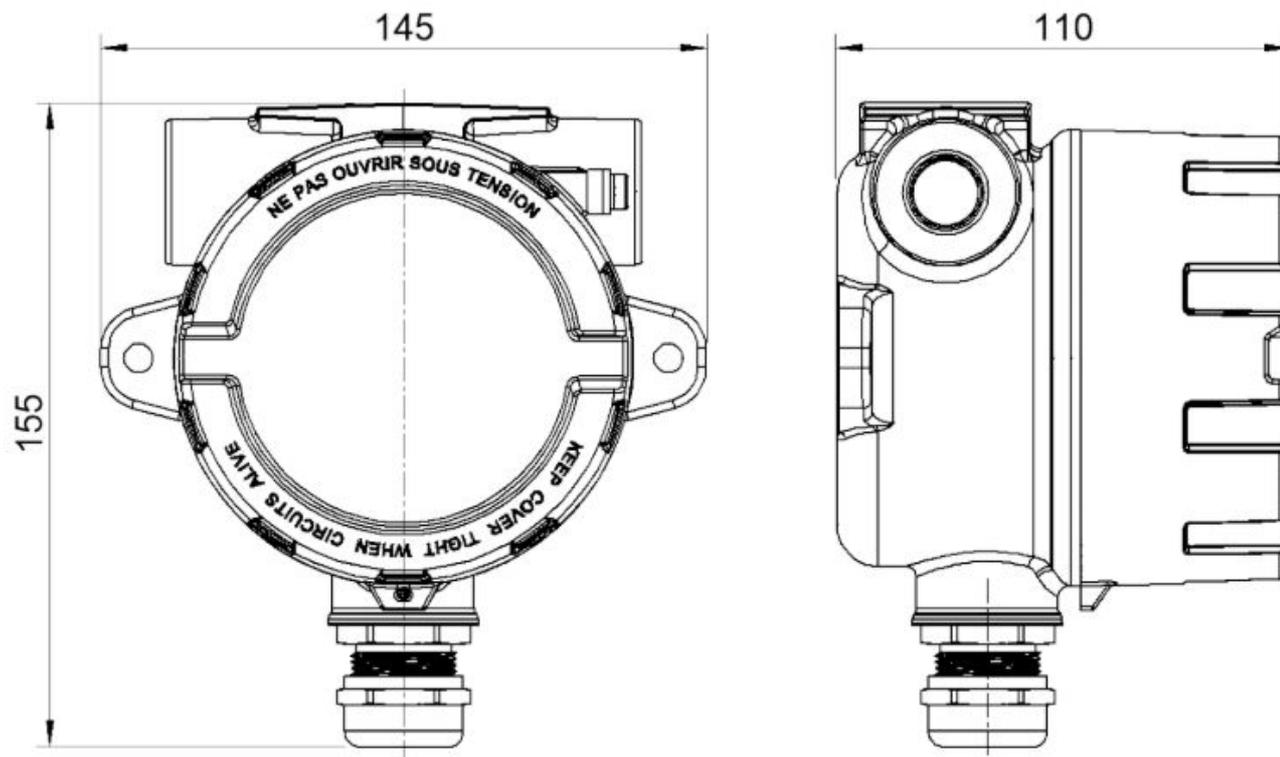
ATEX / IECEx
EESF 19 ATEX 023X
 II 2G Ex db IIC Gb
 II 2D Ex tb IIIC Db IP66

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

