

Flameproof Solvent Vapours Detector-Transmitter E2670-PID



Features

- Highly sensitive Photo Ionization Detector
- 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	VOCs with ionisation potential < 10.6 eV	
Default calibration	Isobutylene	
Sensor type	Photo ionization detector (PID)	
Sampling method	Diffusion	
	E2670-PID-40	E2670-PID-200
Detection range	0...40 ppm (isobutylene)	0...200 ppm (isobutylene)
Minimum detection level	0,01 ppm	1 ppm
Response time	< 3 s	
Sensor lifetime	> 5 years	
Maintenance interval	Monthly or more frequently depending on operating conditions	
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...+65°C; 0...95% RH non-condensing; 0,9...1,1 atm; Explosion-safe areas Non-aggressive atmosphere	
Relay option (ordering code R)		
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max	
Default alarm setpoints	Determined by user within 5-95% of the range	

Approvals

Enclosure:

ATEX / IECEx
 FTZU 03 ATEX 0207U
 IECEx FTZU 12.0017U
 Ⓔx II 2 G Ex db IIC Gb
 Ⓔx II 2 D Ex tb IIIC Db

Glands:

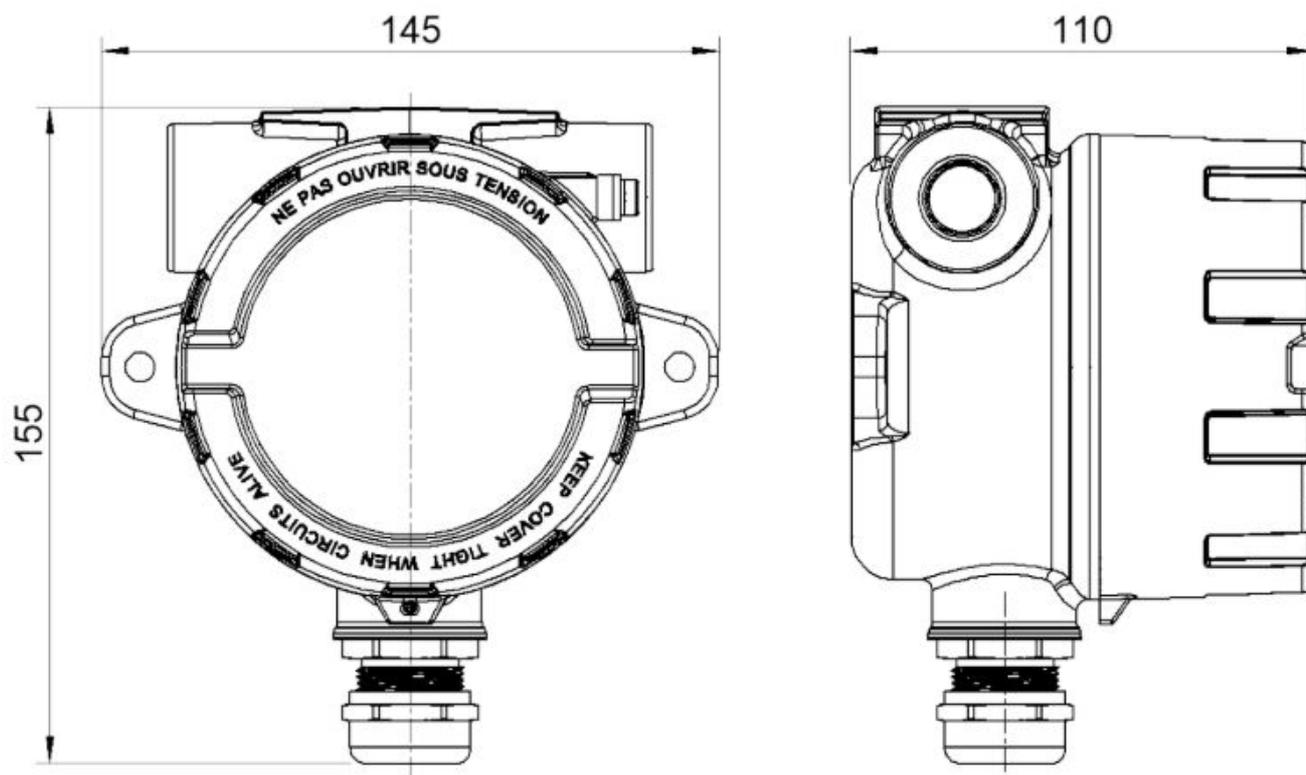
ATEX / IECEx
 EESF 19 ATEX 023X
 Ⓔx II 2G Ex db IIC Gb
 Ⓔx II 2D Ex tb IIIC Db IP66

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

