

Flameproof Combustible Gases Detector-Transmitter E2670-LEL



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	Hydrogen, methane, acetylene, propane, butane, hexane, octane	
Default calibration	Methane CH ₄	
Sensor type	Metal-oxide semiconductor Pellistor (catalytic bead) on demand	
Sampling method	Diffusion	
Sensor	MOS	Pellistor
Typical detection range	0...100% LEL	0...100% LEL
Resolution	0.1% LEL	1% LEL
Response time T90	ca. 60 s	≤10 s
Sensor lifetime	> 5 years	> 3 years
Calibration interval	12 months	6 months
Operating temperature	-40...+70 °C	-10...+50°C
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	(operating temperature is specified above) ≤ 95% RH non condensing; 0.9...1,1 atm 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
Default alarm setpoints	LOW: set 20 %LEL, release 16% LEL; HIGH: set 50%LEL, release 40% LEL

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:

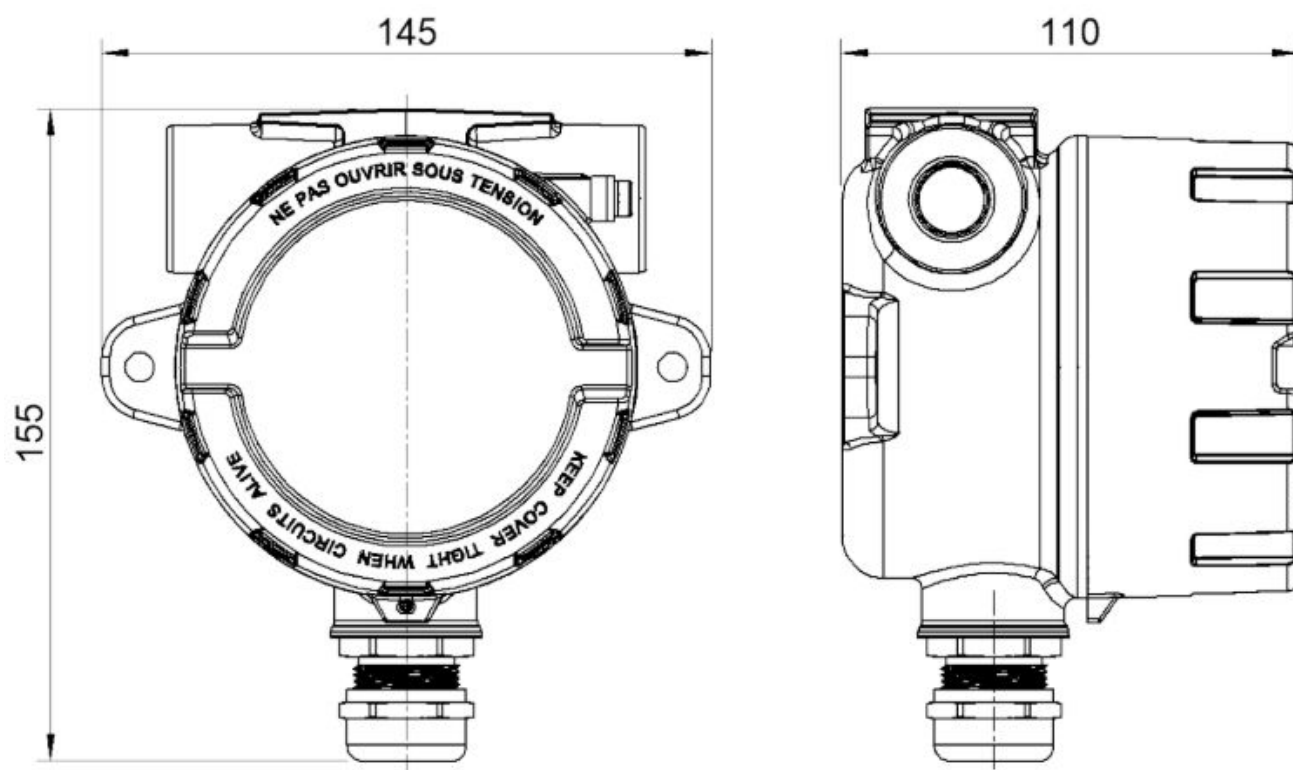
ATEX / IECEx
EESF 19 ATEX 023X
II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db IP66

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

