

Surface mounting gas detectors - TECHNICAL CHARACTERISTICS

Surface mounting gas detectors

Scope

Suitable to detect in the ambient the presence of LPG and liquified gases (01895) or of methane gas (01896) at a much lower level than the threshold of dangerous situation. It controls a solenoid valve and/or exhaust fans or ventilators, stopping the gas delivery and providing, at the same time, optical (LEDs) and acoustic signals (buzzer) indicating that the detection and the gas delivery stop are being actuated. They are particularly suitable for installation on older systems or in refurbished buildings where the installation of flush mounting devices may be difficult and expensive.

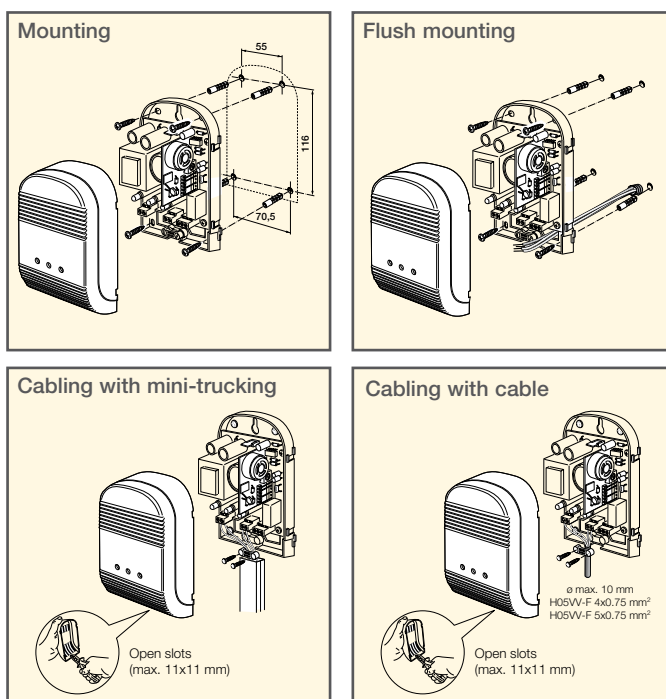


Technical specifications

- Supply voltage: 230 V~ ±10% 50-60 Hz
- Sensor: stannic oxide semiconductor with physical filter
- Calibration: sealed with thermal compensation
- Gas Stop GPL operating threshold: alarm: 9% L.E.L.¹ (iso-butane)
- Gas Stop Metano operating threshold: alarm: 9% L.E.L.¹ (methane)
- Electronic protection against short circuit without fuse
- Terminals L - N: supply voltage 230 V~ 50-60 Hz
- Terminals 6 - 7: connection VIMAR 16590 solenoid valve or manually resettable solenoid valve NO 12 V d.c. 13 W with maximum excitation of 0.4 Joule after removing the load resistor
- Terminals 3-4-5: clean change-over contact output relay for connecting additional alarms and solenoid valves of other types from that indicated above (terminals 3-4 for NC units, terminals 4-5 for NO units):
 - NO 5 A 250 V~
 - NO 5 A 12 V d.c.
 - NO 10 A 12 V~
 - NC 2 A 250 V~
 - NC 3 A 12 V~
 - NC 1 A 12 V d.c.
- Operating signals:
 - acoustic, through piezoelectric buzzer 85 dB a 1 m
 - optical, through frontal (green \odot , yellow \triangle , red \triangle)
- Useful life of the detector: 10 YEARS from the time of installation by replacing the sensor after 5 YEARS
- Protection degree: IP42
- Operating temperature: from -10 °C to +40 °C
- Allowed relative humidity: 30-90% max without condensation
- Self-extinguishing, poly-carbonate enclosure
- Screw terminals for rigid or flexible conductors up to 2.5 mm²
- Supplied with Gas Test cylinder for testing the installation and for periodical inspection of the correct operating of gas detectors
- dimensions: 90x145x40 mm

A safety transformer and the 6 mm spacing between circuits provide a double insulation between the 230 V~, power supply circuit, the 12 V d.c. output for solenoid valves and the clean contact relay output. This means that the relay can be interchangeably connected to a mains or SELV powered solenoid valve, and that the output furnished a SELV voltage.

1: L.E.L.: Gas Lower Explosive Limit



Conformity to Standards

- LV Directive
- EN 50194 Standards
- EMC Directive
- EN 50270 Standards

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- 01895** Gas Stop GPL, electronic LPG gas detector, with acoustic and optical signalling and control on a solenoid valve, supply voltage 230 V~ 50-60 Hz, white. Supplied with 01899 Gas Test cylinder for testing the correct installation
- 01896** Gas Stop Metano, electronic methane gas detector, with acoustic and optical signalling and control on a solenoid valve, supply voltage 230 V~ 50-60 Hz, white. Supplied with 01899 Gas Test cylinder for testing the correct installation



01895



01896

Accessories

- 01895.G** Sensor part for Gas Stop GPL 01895
- 01896.M** Sensor part for Gas Stop Metano 01896
- 01899** Gas test, cylinder for testing the installation and for periodical inspection of the correct operating of gas detectors. It contains 4 g of gas, releasing about 400 calibrated single dose 10 mg each
- 16590** NO 3/4" manually resettable solenoid valve, brass body, supply voltage 12 V d.c., absorption 13 W



01895.G



01896.M



01899



16590

Replacing sensor

According to what excepted from the rules, any gas detector should be replaced 5 years after the first installation, because the inside sensor modifies its chemical structure. The passage of the current reduces the sensor resistance increasing its hypersensitive and then signalling false fault of gas.

Vimar surface mounting gas detectors are supplied with replaceable sensor (see figures below) in order to extend the life of the device for further 5 years, and to the expiration of which is necessary to replace it.

