Product line CONNECTED

5YGAS-RF

Wireless Detector of Flammable and Explosive Gases FireSAFE based on Methane CH4 (natural gas, biogas, CNG, SNG) with acoustic and LED warning signaling, outputs for the possibility of integration into third-party systems or for connection and control of external devices



CONNECTED wireless FireSAFE device interconnection

- For safe, stable and reliable communication, the system is equipped with its own FireSAFE radio technology operating at a frequency of 868 MHz
- The detector includes an integrated RF module, which thanks to the CONNECTED function allows wireless connection of two or more FireSAFE detectors and thus creating a mutually interconnected wireless network

Semiconductor sensor for flammable and explosive gases

- Hazard detection based on Methane: natural gas, biogas, CNG, SNG, mine gas, etc.
- Second generation semiconductor integrated sensor requiring no regular service calibrations
- Temporary mute function
- Test function to verify correct device operation

Two control outputs

- The detector has two control outputs (relay and pulse), which allow extensive installation options with emphasis on maximum safety. It offers direct connection and control of external components, such as automatic valves for gas supply shut-off, alarm signaling elements, ventilation fans, electric locks, lighting and other devices used in alarm or automation systems.

Integration into other systems

- Thanks to the COM / NO relay output, the detector supports the possibility of its integration into third-party security or automation systems
- By connecting the detector to the integration module of the given system, it will be possible to receive an alarm signal via a wired input and forward alarm notifications to the central unit.

Support for connection of up to 24 FireSAFE devices

- Supports connection of up to 24 detectors and devices from the constantly growing FireSAFE CONNECTED portfolio
- An intelligent central control unit Hub FireSAFE can be added to the wireless network, which allows convenient setting and control of a complex FireSAFE system
- 3 m sufficiently long power supply cable

Constant power supply from the network at 12V voltage

- Powered by safe voltage 12V DC via a 230V / 50Hz mains power supply, which is included in the package Guaranteed operating power

Multi-level signaling

- An alarm is indicated acoustically by a buzzer, optically by a red LED Alarm indicator. Outputs for connected external devices are activated and alarm triggering is initiated in the wireless network by transmitting a radio signal.

IZOVAX protection

- Electronic components and the detector's printed circuit board are covered with an insulating and protective layer of IZOVAX nanoparticle lacquer protecting the device's electronics even in very humid environments.

Certification

- Flammable and explosive gas detectors SAFE 5YGAS - RF have been independently tested by an accredited laboratory and meet the highest European safety standards and are certified and calibrated in accordance with EN 50194-1:2023 (electrical equipment for detection of flammable gases).

Technical specification

Gas detection Methane CH4 / natural gas	Semiconductor sensor second generation
Device type	A
Alarm	0.8 % LFL / LEL
Heating time	180 s
Power supply	
Power adapter Detector	100 - 240 V ~ 50 / 60 Hz (max. 0.3 A) 12 V DC / 1.0 A (12.0 W) - external power adapter, cable length 3 m
Consumption	• Standby mode: ≤1.5 W • During alarm: ≤2.5 W
Relay output	1× COM / NO (12 V DC, 1.5 A)
Pulse voltage output	1× (12 V DC, 1.5 A)
Signalization	• Optical - 3x LED indicator • Acoustic - ≥85 dB at 3 m
LED indicator signalization	
AC power supply Alarm Malfunction End of life	Green LED indicator (Power) Red LED indicator (Alarm) Yellow LED indicator (Fault) Yellow LED indicator (EOL)
Exceeding permissible concentration	Acoustic alarm 85 dB accompanied by visual indication of red LED indicator
PCB protection	Insulating and protective varnish layer with IZOVAX nanoparticles
Operating radio frequency	868 MHz
Radio signal range	Up to 1000 m in open space
Alarm silencing	Manual - by silencing button

Silencing time	9 minutes
Installation method	Wall-mounted – fixed installation (screws are included in the package)
Installation type	Indoor – fixed installation
Protection	IPX2D
Cover material	PC + ABS
Cover color	White / black
Operating temperature	-10 °C to +55 °C
Operating humidity	10 % to 95 % relative humidity without condensation
Storage conditions	Temperature: -20 °C to + 60 °C Humidity: 5 % to 95 % relative humidity without condensation
Certification	ČSN EN 50194-1:2023
Sensor lifetime	min. 5 years
Declaration of conformity	CE
Warranty	36 months
Product dimensions	118.0 mm × 78.0 mm × 33.7 mm
Product weight	126 g (232 g with power adapter)
Product packaging dimensions	78 x 90 x 135 mm
Product packaging weight	321.6 g
Carton dimensions	903 x 800 x 580 mm
Carton weight	10.4 kg
Number of pieces in carton	30 pcs
EAN code	0728204234914

Product dimensions

