

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



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



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



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).



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.

Technical specification

Gas detection Methane CH ₄ / natural gas	Semiconductor sensor second generation	Silencing time	9 minutes
Device type	A	Installation method	Wall-mounted – fixed installation (screws are included in the package)
Alarm	0.8 % LFL / LEL	Installation type	Indoor – fixed installation
Heating time	180 s	Protection	IPX2D
Power supply		Cover material	PC + ABS
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	Cover color	White / black
Consumption	- Standby mode: ≤1.5 W - During alarm: ≤2.5 W	Operating temperature	-10 °C to +55 °C
Relay output	1× COM / NO (12 V DC, 1.5 A)	Operating humidity	10 % to 95 % relative humidity without condensation
Pulse voltage output	1× (12 V DC, 1.5 A)	Storage conditions	Temperature: -20 °C to + 60 °C Humidity: 5 % to 95 % relative humidity without condensation
Signalization	- Optical - 3x LED indicator - Acoustic - ≥85 dB at 3 m	Certification	ČSN EN 50194-1:2023
LED indicator signalization		Sensor lifetime	min. 5 years
AC power supply	Green LED indicator (Power)	Declaration of conformity	CE
Alarm	Red LED indicator (Alarm)	Warranty	36 months
Malfunction	Yellow LED indicator (Fault)	Product dimensions	118.0 mm × 78.0 mm × 33.7 mm
End of life	Yellow LED indicator (EOL)	Product weight	126 g (232 g with power adapter)
Exceeding permissible concentration	Acoustic alarm 85 dB accompanied by visual indication of red LED indicator	Product packaging dimensions	78 x 90 x 135 mm
PCB protection	Insulating and protective varnish layer with IZOVAX nanoparticles	Product packaging weight	321.6 g
Operating radio frequency	868 MHz	Carton dimensions	903 x 800 x 580 mm
Radio signal range	Up to 1000 m in open space	Carton weight	10.4 kg
Alarm silencing	Manual - by silencing button	Number of pieces in carton	30 pcs
		EAN code	0728204234914

Product dimensions

