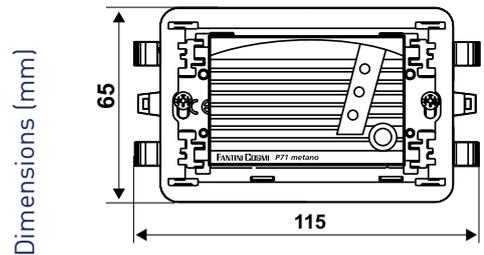


# Sicurgas P71-P72

Flush mounting gas leak detectors for methane and LPG, for civil environments

Sicurgas is a device that through a sensitive sensor, detects methane gas concentration (P71) and LPG concentration (P72) in civil environments.



	Gas type	Power supply	Contacts rating	Test button	Operating temperature	Protection degree
P71	<input type="checkbox"/> METHANE	230 Vac 50Hz	5(3)A - 250Vac	YES (pull cord)	0 ÷ 40 °C	IP42
P72	<input type="checkbox"/> LPG	230 Vac 50Hz	5(3)A - 250Vac	YES	0 ÷ 40 °C	IP42

- P71 ANTHRACITE
- P71B WHITE
- P71C SILVER



## ELECTRICAL CHARACTERISTICS

Power supply: 230Vac - 50Hz.  
 Consumption: 3 VA.  
 Output through electromagnetic relays.  
 Contacts rating: 5(3)A - 250Vac.

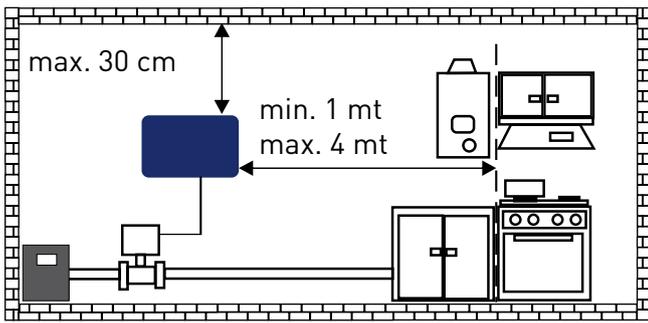
## STANDARDS AND APPROVALS

Complies with EN 60730-1 standards

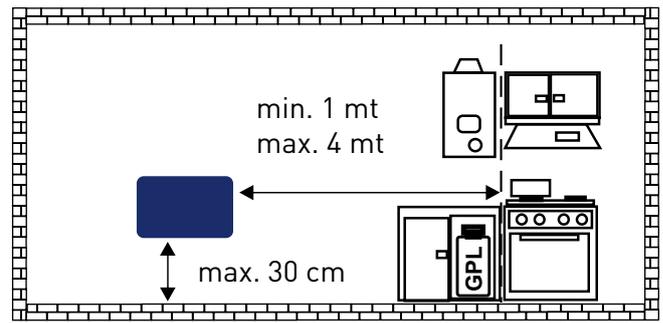


# INSTALLATION

Flush mounting in 3-module 503 embedded boxes by means of 2 screws (supplied).



METHANE is a gas lighter than air, the maximum concentration is located near the ceiling.  
Install the unit on the wall, about 30 cm from the ceiling and at a distance from gas using device, between a minimum of 1 meter and a maximum of 4 meters.



LPG is a gas heavier than air; the maximum concentration is located near the floor.  
Install the unit approximately 2 meters (minimum 1m, maximum 4m) from the gas using device and about 30 cm from the floor.

## COMPATIBLE PLATES

BTICINO Living International, Living di transizione

BTICINO Light, Light Tech

BTICINO Living-light round LNA and square LNB

BTICINO Axolute

VIMAR Idea, Rondò and Plana

GEWISS Playbus e Playbus Young

AVE sistema 45, Noir, Blanc

AVE Banquise, Ave Yes

Siemens Delta Futura Graphit

Legrand Vela square and round

## OPERATION

Sicurgas operates when the gas concentration in the air is much under the lower explosion limit (L.E.L.), immediately turning on the red light.

In case of alarm, interferes as well an acoustic alarm that is going to prevent the danger. Simultaneously Sicurgas is making the relay to interfere in order to control the gas interception valve.

Sicurgas has three warning lights:

- green LED - indicates that the detector works properly;
- yellow LED - indicates detector failure;
- red LED - indicates the gas presence in the environment (ALARM).

The detector controls, through a relay, the normally closed (NC) and normally open (NO) valves with manual reset.

Sicurgas sensor, as all available on the market sensors, while being very selective can also participate for other substances, for example: alcohol vapors, wine etc.

For example, during the use of wine while preparing food is possible, that the detector will enter in alarm situation. To avoid this inconvenience, Sicurgas is equipped with an alarm silencing key (P61AE excluded), operated with:

- pull cord for Sicurgas P71 for methane gas (mounted up on the wall, 30 cm from ceiling);
- key under Sicurgas P72 body for LPG (mounted down on the wall, 30 cm from the floor).

N.B. silencing key must be pressed for at least 1 second.

After having pressed the silencing key, for 10 minutes we will have a non-alarm situation: the buzzer does not emit acoustic signaling, the relay returns in non-alarm position and the red and yellow LEDs are flashing alternately to indicate the silence period; acting again on the switch during 10 minutes of the silence period, the detector will immediately resume the normal operation. After 10 minutes, the detector automatically resumes the normal operation. Here it is possible, knowing that can be used substances which can cause a false alarm, to reduce in advance detector's sound to prevent the signalizations and gas shut off of the stoves (due to gas valve intervention).

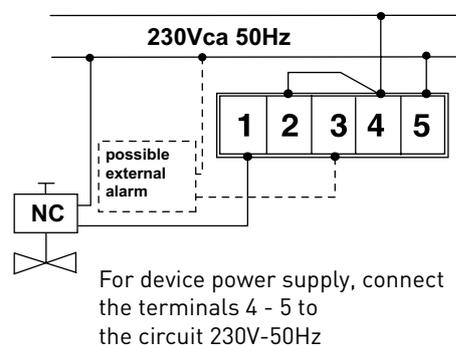
SOME OF THE MOST COMMON SUBSTANCES THAT CAN CAUSE A FALSE ALARM ARE THE FOLLOWING:  
 wine, liquors, alcohol, deodorants, stain-removers, varnish thinners, hair spray, excessive steam.

EXAMPLE OF CONNECTION of Sicurgas P71-P72 with STABLE RELAY, to control a normally closed NC valve with manual reset.

With normally closed valves, always power supplied, the system guarantees maximum safety, the gas inflow will be interrupted in case of:

- gas concentration threshold exceeding;
- power supply lack of the valve only or of the detector;
- connection breakdown between the detector and valve.

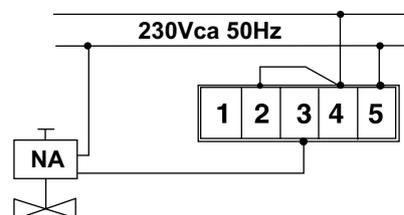
EXAMPLE OF CONNECTION



EXAMPLE OF CONNECTION of Sicurgas P71-P72 for controlling a normally open NO valve with manual reset.

With normally open valves, the system guarantees the gas inflow interruption in case of:

- gas concentration threshold exceeding.



## TECHNICAL FEATURES

Shockproof insulating material casing.

Semiconductor sensor for gas detection.

Sicurgas has three warning lights:

- green LED - indicates that the detector works properly;
- yellow LED - indicates detector failure;
- red LED - indicates the gas presence in the environment (ALARM).

The used relay is sealed and filled with inert gas, which ensures in any case the absolute absence of sparks during switching phases.