

BEAGLE



GAS LEAK DETECTOR

- LPG version (RGD GP5 MP1)
- Methane version (RGD ME5 MP1)
- Semiconductor sensor
- 230V~ power supply
- Buzzer and relay in case of alarm/fail
- Alarm test key
- **Flush mount over 2 modules junction boxes (square or round shaped) or wall mount using external plastic duct (10x7,5 mm.)**

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Fig. 1: External aspect.

OPERATION

This device (Fig. 1) is a flammable gas leakage domestic detector. When in presence of gas at a concentration much lower than the dangerous threshold, it turns on a red indicator and, consequently, after about 5 seconds delay, it turns on both a buzzer and a relay which, in turn, closes the gas cut-off electro-valve.

The detector also features an auto-diagnostic system for checking the sensor good conditions. In order to check the detector good operation just press the 'T' (test) key: the red LED will be turned on, followed, after about 5 seconds, by the buzzer and the internal relay, until the key is released.

The device is equipped with a delay line which avoids the intervention of the alarm system (in order for the gas sensor to heat up) whenever the device is turned on or even after a mains black-out, as soon as the power comes back. After such a time delay (about 50 seconds), both yellow and red indicators turn off in order to indicate the 'active' state for the detector itself.

When the yellow indicator is turned on (sensor fail) the possible reasons must be searched among the following:

- sensor failure,
- detector fault.

When the yellow and the red indicators are turned on at the same time, the possible reasons are:

- warm up time for the sensor,
- detector fault.

USE INSTRUCTIONS

Please note that the intervention delay is strictly dependant both on a correct positioning of the detector in the room and to the type of gas to be detected.

In case of 'heavy' gases (as for LPG) an installation in low places is advisable (roughly 30 cm. from floor level), meanwhile for 'light' gases like methane in high places (roughly 30 cm from ceiling level). Please avoid installation in such a position that it can be directly in the stream of smokes or vapours containing compounds which are dangerous for the sensor health (as an example: do not position the detector in the stream of greasy smokes produced by cooking).

A periodic functional check is also highly advisable (through the use of a cotton flock drenched with alcohol, for example).

WARNING: never use the gas of a cigarette lighter to test the functionality of the detector: in this case the internal sensor would be permanently damaged.

For installing or testing the unit, remove the screw located on the front cover, then dismantle the plastic cover itself, (see Fig. 1). When installation is completed, apply the sticking label and write on it the date before which the sensor must be replaced, (see fig. 4). Make electrical wirings as indicated in Fig. 2 or 3. In order to grant a real safety, a gas detector must be coupled to an electro-valve capable of blocking the gas flow in the event of an alarm.

These electro-valves can be coupled to detector:

- 230V~ normally open electro-valve;
- 230V~ normally closed electro-valve;

TECHNICAL FEATURES

| | |
|-------------------------|--|
| Power supply: | 230V~ -15% +10% 50Hz |
| Electric power: | 1,5VA |
| Sensor type: | SnO ₂ semiconductor |
| Detected gas: | RGD GP5 MP1: LPG RGD ME5 MP1: Methane |
| Sensitivity: | 5% .. 20% L.E.L. |
| Output 1: | 5A@250V~ SPDT relay |
| Signalling: | ⬇ Green led on: Active ⚠ Yellow led on: Fail ▲ Red led on: Alarm Buzzer: Alarm, (after ~ 5 seconds) |
| Activation delay: | ~ 50 seconds |
| Relay activation delay: | ~ 5 seconds |
| Sensor lifetime: | 5 years |
| Operating temperature: | 0°C .. 40°C |
| Storage temperature: | -10°C .. +50°C |
| Humidity limits: | 20% .. 80% RH non condensing |
| Protection grade: | IP 42 |
| Case: | Material: ABS V0 self-extinguishing Color: Signal white (RAL 9003) Size: 85 x 107 x 38 mm (W x H x D) |
| Weight: | ~ 260 gr. |

⚠ WARNING

- Use wires with 1.5 mm² minimum section and no longer than 50 m.
- The appliance must be wired to the electric mains through a switch capable of disconnecting all poles compliant to the current safety standards and with a contact separation of at least 3 mm in all poles.
- Installation and electrical wirings of this appliance must be made by qualified technicians and in compliance with the current standards.
- Before wiring the appliance be sure to turn the mains power off.

WARNING! In case of an alarm:

- 1) Extinguish all fire sources.
- 2) Close main gas valve (either methane or LPG).
- 3) Do not turn on or off any electrical light; do not turn on or off any electrical device.
- 4) Open doors and windows to increase ventilation.

If the alarm stops it is necessary to search the possible cause and consequently provide.

In case the alarm persists and the cause of the leak cannot be found, vacate the premises and, from external, immediately notify the gas emergency service.

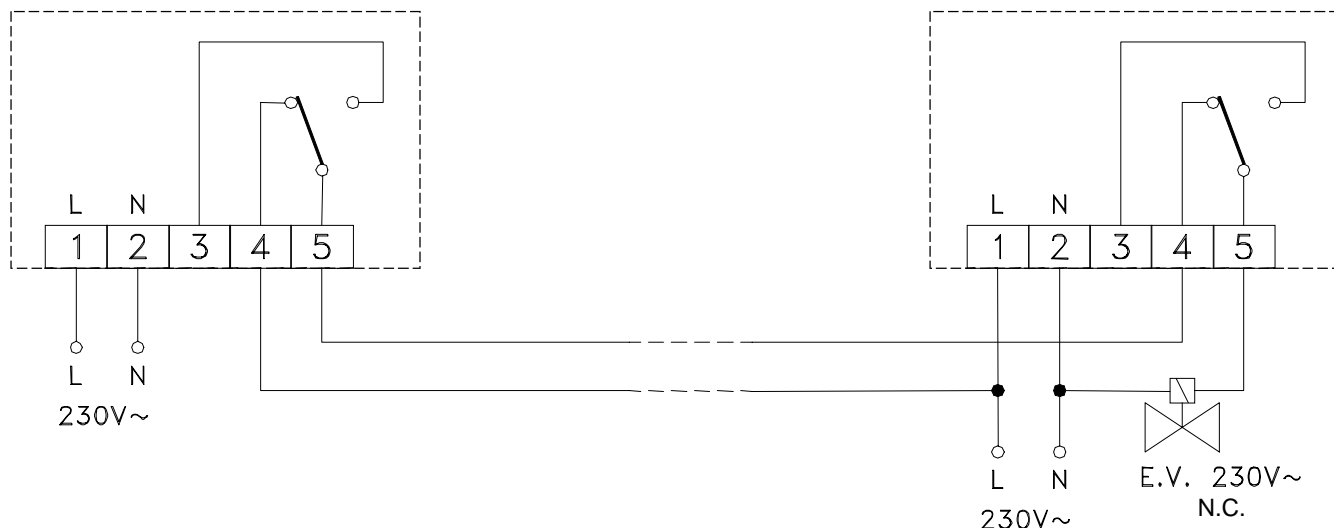


Fig. 2: Schema di collegamento di più Beagle con un'elettrovalvola a riarmo manuale normalmente chiusa a 230V~.

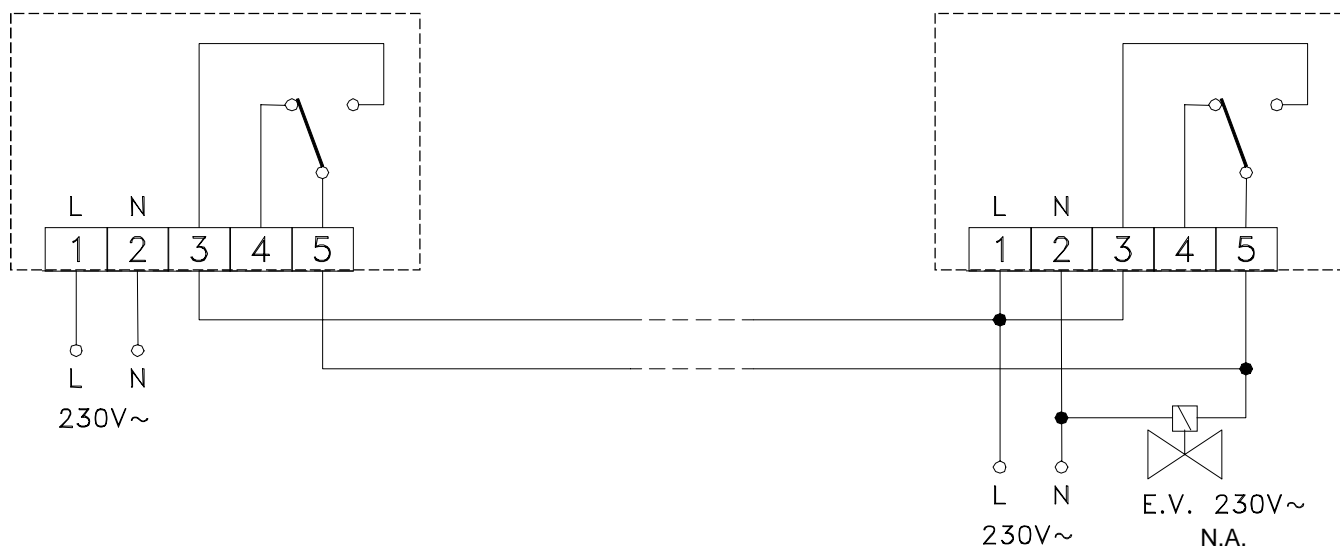


Fig. 3: Schema di collegamento di più Beagle con un'elettrovalvola a riarmo manuale normalmente aperta a 230V~.

| | | |
|-----------------|---|-----|
| RGD GP5 MP1 0SE | Sostituire entro (Da apporre a cura dell'installatore) | GPL |
| | | |
| | Replace before (To be filled by the installer) | |

PER LA CONFORMITÀ ALLA NORMATIVA IN VIGORE, APPORRE SULLA CALOTTA IN MODO VISIBILE L'ETICHETTA CONTENUTA NELL'IMBALLO, INSERENDO LA DATA DI SOSTITUZIONE DEL SENSORE.

Fig. 4: Esempio di etichetta avvertenze.

L'INSTALLAZIONE DEL RIVELATORE DI GAS NON ESONERA DALL'OSSERVANZA DI TUTTE LE REGOLE RIGUARDANTI LE CARATTERISTICHE, L'INSTALLAZIONE E L'USO DEGLI APPARECCHI A GAS, LA VENTILAZIONE DEI LOCALI E LO SCARICO DEI PRODOTTI DELLA COMBUSTIONE PRESCRITTI DALLE NORME UNI E DALLE DISPOSIZIONI DI LEGGE.

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