

**Areas of application and functional description**

The gas detector SGL is used to monitor rooms in both residential and commercial buildings, in which installations and devices are operated with flammable gases.

It is suitable for connection to ABB intruder and fire alarm systems and to ABB i-bus® EIB inputs as well as control units from other manufacturers with rate-of-rise detectors.

It detects increased concentrations of flammable gases in the surrounding air

and is highly sensitive to gases such as propane, methane and butane, as well as town gas and natural gas.

When the permitted concentration of gas is exceeded, the integrated buzzer sounds, the red alarm LED on the detector is triggered and the signal can be routed to an alarm receiving centre.

The response value for triggering an alarm is 20 % of the lowest explosive limit.

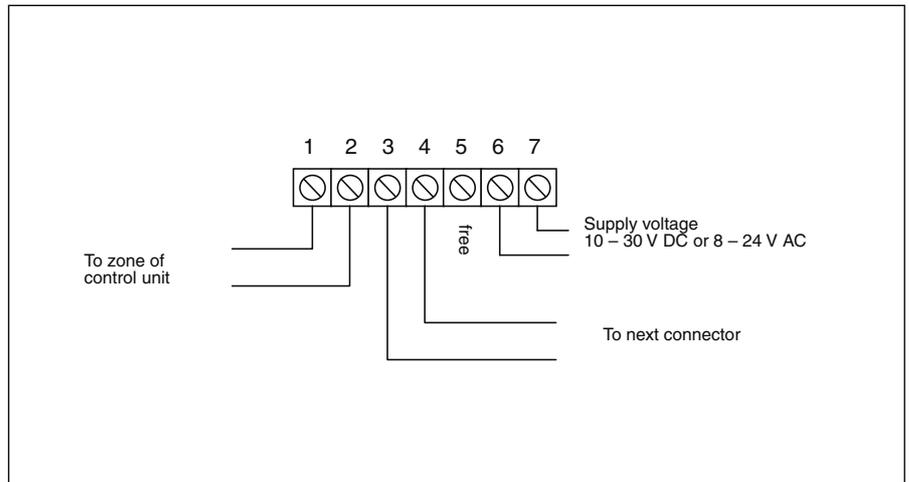
The green LED signals that the device is ready for operation.

The gas detector SGL is not permitted for use in hazardous areas.

Technical Data

Operating voltage	10 ... 30 V DC, independent of polarity 24 V AC
Power consumption	≤ 80 mA
Response value	at approx. 20 % lowest explosion limit
Acoustic signalling device	Continuous tone /3.5 kHz ± 0.5 kHz, ≥ 85 dB(A) at 1 m distance
Alarm relay	Foto-MOS relay/contact closes in event of alarm
Technical fault	Signal on failure of operating voltage via second Foto-MOS relay connected in series to alarm contact; opens in event of fault
Temperature range	– 10 °C ... + 40 °C
Housing	Plastic (ABS); ø 114 mm x 47 mm, white (RAL 9003)
Weight	approx. 120 g
Type of protection/environmental class	IP 30/II
Monitoring range	max. 40m ²

Wiring diagram



Functions of the DIP switch

Nr.	Function	Application
1	Bridges alarm resistance of 1 kohm	ON for ABB intruder alarm system, OFF for ABB fire alarm system (each detector)
2	Switches on EOL resistor of 2.7 kohm	ON for last detector in ABB intruder alarm system
3	Switches on EOL resistor of 5.6 kohm	ON for last detector in ABB fire alarm system
4	Switches on EOL resistor of 10 kohm	ON for last detector in intruder alarm systems from other manufacturers

Example of ABB intruder alarm control unit L208

