

## GAS DETECTION

### GAS DETECTOR PCE-FGD SERIES

#### Flammable Gas Detector

Gases and gas mixtures have become indispensable in industry and research. The PCE-FGD series gas detectors are particularly suitable for monitoring the industrial gases required in many industries. Processes such as combustion may produce harmful toxic gases which should be monitored to protect people. The gas detectors of the PCE-FGD series are also particularly

suitable for monitoring the gases generated during digestion processes such as in sewer shafts or silos. The risk of carbon dioxide poisoning as it is used in the beverage industry or for the better flourishing of fruit and vegetables in greenhouses can be significantly reduced with these gas detectors.

#### ISO cal option

- ▶ protection class IP65
- ▶ analogue output 4 ... 20 mA / 2 ... 10 V
- ▶ exchangeable sensor element



#### APPLICATION



### TECHNICAL SPECIFICATIONS

#### Electrical

Supply voltage	16 ... 29 V DC, reverse polarity protected
Analog output	4 ... 20 mA or 2 ... 10 V Proportional, overload and short-circuit proof
burden	≤ 500 Ω with current signal ≥ 50 kΩ with voltage signal
Underrange	< 3.2 ... 4 mA or < 1.6 ... 2 V
Measuring range exceeded	> 20 ... 21.2 mA or > 10 ... 10.6 V
Disorder	2 mA or 1 V
High fault	> 21.8 mA or 10.9 V

#### Mechanically

casing	Polycarbonate (Sensor element optionally made of stainless steel)
Burning behavior	UL 94 V2
Housing color	
Sensor element casing	RAL 7032 RAL 7024
Dimensions	125 x 113 x 62 mm
Degree of protection	IP65
Assembly	Screw mounting
Connection type sensor	Screw terminal min. 0.25 mm <sup>2</sup> ; Max. 1.3 mm <sup>2</sup> , 3-ploig
Cable entry	M12, black, plastic
Weight	approx. 180 g

#### General sensor

Sensor element	
Pressure range	Atmosphere ± 10%

Operating conditions	-20 ... +65 ° C
Storage conditions	+5 ... +30 ° C 10 ... 95% RH non-condensing

#### Power consumption (at 24 V DC)

flammable gases	approx. 75 mA
toxic gases (except CO <sub>2</sub> )	approx. 23 mA
F gases	approx. 65 mA

#### storage time

flammable gases	12 months
toxic gases	6 months



Subject to change without notice