SolidsenSe
Gas Sensors

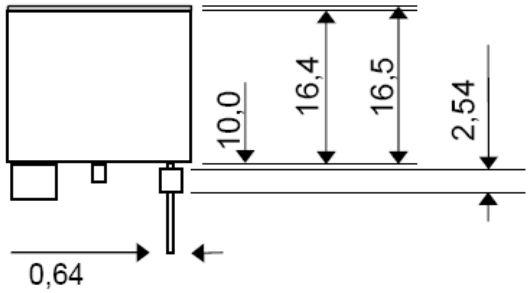
OXYGEN *4SE 5V* Technical Specification

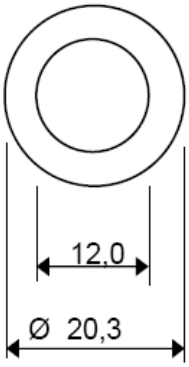
Sensor Type	*O_2 25 Sensor 4 SE 5V*
Detectable Gases	*Oxygen*
Part Number	*01-34-30-02*
Measuring Principle	*Amperometric 3-electrode sensor*
Contact	*5 pin socket connector (spacing 2,54 mm)*
Standard Range	0.0 – 30.0 Vol. %
Lower Detectable Limit (LDL)	0.1 Vol. %
Maximum Range	40 Vol. %
Long Term Sensitivity Drift	< 0.1 Vol. % / 6 month
Linearity at standard range	linear
Repeatability	> 98 % of signal
Sensitivity	100 mV / % O_2
Signal Out	0 - 4,8 VDC
Adjusted	2,1 VDC = 21 % O_2
Power Supply	12 - 24 VDC
Amplification	With trim potentiometer
Power On	LED signal green
Alarm	LED signal red
Response time at target level	
T50	< 5 s
T90	< 15 s
Sensor warm up time typically	10 min
(Pre-powered)	(10 s)
Operating conditions	- 20°C … +50°C
	10 … 95 % r. h.
Pressure dependence	linear
Expected life time	> 3 years

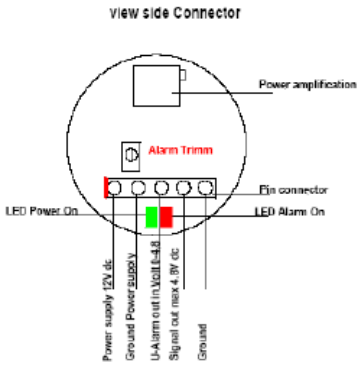
To set Alarm signal, you have to trim potentiometer

OXYGEN *4SE 5V* — Temperature Dependence

Sensor dimensions Ø 20,3 mm; High 26,5 mm (± 0,15 mm tolerance)







** soldering to the pins will damage the sensor*

OXYGEN *4SE 5V* — Temperature Dependence

Temperature compensated

OXYGEN *4SE 5V* — Cross Sensitivity

N.A.

Note:

The sensor can be used in applications of high CO2 level due to the fact that it contains an acid electrolyte.

Test coniditons at 20°C/ 1013 hPa, Flow Rate > 500 qcm/min
Cross sensitivity gases are not target gases. Relation can change with aging.