

Product characteristics
Electronic pressure sensor
Quick disconnect
e1 compliant
Process connection: G 1/4 I
Analog output
Measuring range: 0...2.5 bar

Application
Application

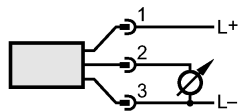
Type of pressure: relative pressure
Liquids and gases

Pressure rating [bar]	20
Bursting pressure min. [bar]	50
Medium temperature [°C]	-25...90 ****)
Electrical data	
Electrical design	DC
Operating voltage [V]	16...32 DC 1)
Current consumption [mA]	< 18
Insulation resistance [MΩ]	> 100 (500 V DC)
Protection class	III
Reverse polarity protection	yes
Outputs	
Output	Analog output
Output function	0...10 V
Overload protection	yes
Min. load [Ω]	2000
Measuring / setting range	
Measuring range [bar]	0...2.5
Accuracy / deviations	
Accuracy / deviations (in % of the span)	
Characteristics deviation *)	< ± 0.25 (BFSL) / < ± 0.5 (LS)
Repeatability **)	< 0.1
Long-term stability ***)	< ± 0.05
Temperature coefficients (TEMPCO) in the temperature range 0...80° C (in % of the span per 10 K)	
Greatest TEMPCO of the zero point	0.1
Greatest TEMPCO of the span	0.2
Reaction times	
Step response time analogue output [ms]	3

PA9026 - Electronic pressure sensor - eclass: 27201302 / 27-20-13-02

Environment	
Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100
Protection	IP 65
Tests / approvals	
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 30 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 10 V radiation of interference according to the automotive directive 2004/104/EC CISPR25 noise immunity according to the automotive directive 2004/104/EC ISO 11452-2 HF radiated: 100 V/m ISO 7637-2 pulse: severity level 4
Railway applications	DIN EN 50155 / IEC 60571 class T3, C1, S1
Shock resistance	DIN EN 60068-2-27 50 g (11 ms) DIN EN 61373: Category 3
Vibration resistance	DIN EN 60068-2-6 20 g (10...2000 Hz) DIN EN 61373: Category 2
MTTF [Years]	478
Mechanical data	
Process connection	G ¼ I
Materials (wetted parts)	stainless steel (303S22); ceramics; FPM (Viton)
Housing materials	stainless steel 316L / 1.4404; FPM (Viton); PA; EPDM/X (Santoprene)
Min. pressure cycles	100 million
Weight [kg]	0.22
Electrical connection	
Connection	M12 connector; gold-plated contacts

Wiring



Remarks	*) BFSL = Best Fit Straight Line / LS = Limit Value Setting **) with temperature fluctuations < 10 K ***) in % of value of measuring range / 6 months *****) -40...90 °C upon request
Pack quantity [piece]	