

Product characteristics

Electronic pressure sensor

Quick disconnect

e1 compliant

Process connection: 1/4" NPT I

Analog output

Measuring range: 0...10 bar / 0...145 psi

Application

Application

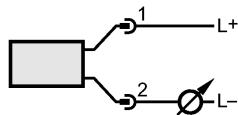
Type of pressure: relative pressure  
Liquids and gases

Pressure rating	75 bar	1088 psi
Bursting pressure min.	150 bar	2175 psi
Medium temperature [°C]	-25...90 ****)	
Electrical data	DC	
Electrical design	DC	
Operating voltage [V]	9.6...32 DC 1)	
Insulation resistance [MΩ]	> 100 (500 V DC)	
Protection class	III	
Reverse polarity protection	yes	
Outputs	Analog output	
Output	4...20 mA	
Output function	4...20 mA	
Overload protection	yes	
Max. load [Ω]	(U <sub>b</sub> - 9.6 V) x 50; 720 at U <sub>b</sub> = 24 V	
Measuring / setting range		
Measuring range	0...10 bar	0...145 psi
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	
Environment		

**PA3224 - Electronic pressure sensor - eclass: 27201302 / 27-20-13-02**

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]	506
Mechanical data		
Process connection		¼" NPT 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]	0.226
Electrical connection		
Connection		M12 connector; gold-plated contacts

**Wiring**



Remarks	
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]	1
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