

Product characteristics  
Electronic pressure sensor  
Quick disconnect  
e1 compliant

Process connection: 1/4" NPT I  
Analog output

Measuring range: -1...0 bar

Application

Application

Type of pressure: relative pressure  
Liquids and gases

Pressure rating [bar]  
Bursting pressure min. [bar]  
Medium temperature [°C]

10  
30  
-25...90 \*\*\*\*)

Electrical data

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

Output

Analog output

Output function

20...4 mA analog

Overload protection

yes

Analog output

20...4 mA

Max. load [Ω]

max. (U<sub>b</sub> - 9.6 V) x 50; 720 at U<sub>b</sub> = 24 V

Measuring / setting range

Measuring range [bar]

-1...0

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

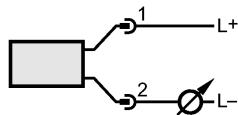
output [ms]

3

**PA6229 - 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
	pulse resistance	according to ISO7637-2 / severity level 3
Shock resistance	DIN IEC 68-2-27:	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6:	20 g (10...2000 Hz)
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]	0.22
Electrical connection		
Connection		M12 connector; gold-plated contacts

**Wiring**



Remarks	
Remarks	<p>*) BFSL = Best Fit Straight Line / LS = Limit Value Setting</p> <p>**) with temperature fluctuations &lt; 10 K</p> <p>***) in % of value of measuring range / 6 months</p> <p>****) -40...90 °C upon request</p>
Pack quantity	[piece] 1