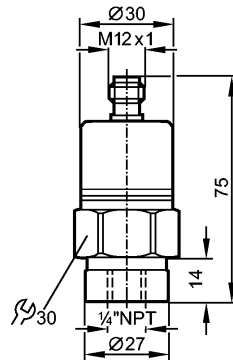


PA3221

PA-250-SBN14-A-ZVG/US/ IV

Pressure sensors



Product characteristics

Electronic pressure sensor

Quick disconnect

e1 compliant

Process connection: 1/4" NPT

Analog output

Measuring range: 0...250 bar / 0...3625 psi

Application

Application	Type of pressure: relative pressure Liquids and gases Use in gases at pressures > 25 bar only after contacting the manufacturer ifm	
Pressure rating	600 bar	8700 psi
Bursting pressure min.	1000 bar	14500 psi
Medium temperature [°C]	-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	4...20 mA	
Overload protection	yes	
Max. load [Ω]	(Ub - 9.6 V) x 50; 720 at Ub = 24 V	

Measuring / setting range

Measuring range	0...250 bar	0...3625 psi
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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)

PA3221

PA-250-SBN14-A-ZVG/US/ /V

Pressure sensors

Greatest TEMPCO of the zero point	0.1
Greatest TEMPCO of the span	0.2

Reaction times

Step response time analogue output [ms]	3
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Environment

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100
Protection	IP 68 / IP 69K

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 CISPR25 according to the automotive directive 2004/104/EC 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]	507

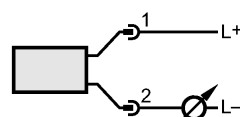
Mechanical data

Process connection	¼" NPT
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]	0.228

Electrical connection

Connection	M12 connector; gold-plated contacts
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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
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Pack quantity [piece]	1
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