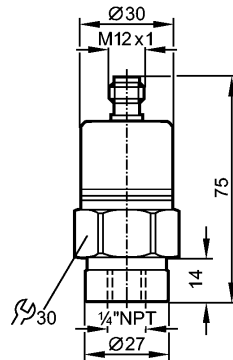


**PA3227**

PA-001-RBN14-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...1 bar / 0...14.5 psi

**Application**

Application	Type of pressure: relative pressure Liquids and gases	
Pressure rating	10 bar	145 psi
Bursting pressure min.	30 bar	435 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...1 bar	0...14.5 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)		
Greatest TEMPCO of the zero point	0.1	

**PA3227**

PA-001-RBN14-A-ZVG/US/ IV

**Pressure sensors**

Greatest TEMPCO of the span	0.2
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**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 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 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 DIN EN 61373:	50 g (11 ms) Category 3
Vibration resistance	DIN EN 60068-2-6 DIN EN 61373:	20 g (10...2000 Hz) Category 2
MTTF [Years]		506

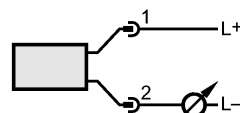
**Mechanical data**

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	<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>
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Pack quantity [piece]	1
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