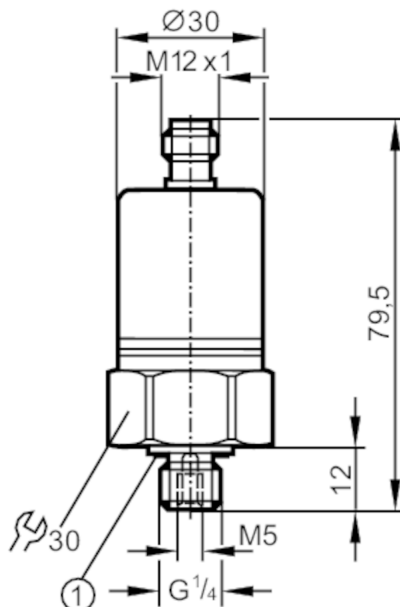




Pressure transmitter with ceramic measuring cell

PA-100-SBG14-B-DVG/US/V



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [bar]	0...100
Process connection	threaded connection G 1/4 external thread internal thread:M5

Application

Special feature	Gold-plated contacts
Application	for industrial applications
Media	liquids and gases
Conditionally suitable for	use in gases at pressures > 25 bar only on request
Medium temperature [°C]	-25...90; (on request: -40...90 °C)
Min. bursting pressure [bar]	650
Pressure rating [bar]	300
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	16...32 DC
Current consumption [mA]	< 18
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes

Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 1
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Outputs

Total number of outputs	1
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Output signal	analogue signal
Number of analogue outputs	1
Analogue voltage output [V]	0...10
Min. load resistance [Ω]	2000
Overload protection	yes

Measuring/setting range

Measuring range [bar]	0...100
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Accuracy / deviations

Repeatability [% of the span]	< 0,1; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the span]	< $\pm 0,25$ (BFSL) / < $\pm 0,5$ (LS); (incl. linearity, zero and span error (limit value setting))
Long-term stability [% of the span]	< $\pm 0,05$
Temperature coefficient zero point [% of the span / 10 K]	0,2; (0...80 °C)
Temperature coefficient span [% of the span / 10 K]	0,1; (0...80 °C)

Response times

Step response time analogue output [ms]	3
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Operating conditions

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	according to the automotive directive 2004/104/EC
	CISPR 25	
	immunity	according to the automotive directive 2004/104/EC
	ISO 11452-2 HF radiated	100 V/m
	ISO 7637-2 pulse	severity level 4
	DIN IEC 68-2-27	50 g (11 ms)
Shock resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
Vibration resistance		
MTTF [years]		478

Mechanical data

Weight [g]	220
Materials	stainless steel (316L/1.4404); FKM; PA; EPDM/X
Materials (wetted parts)	stainless steel (303/1.4305); ceramics; Sealing: FKM DIN 3869-14
Min. pressure cycles	100 million
Process connection	threaded connection G 1/4 external thread internal thread:M5

PA9522



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Restrictor element integrated

no (can be retrofitted)

Remarks

Pack quantity

1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

