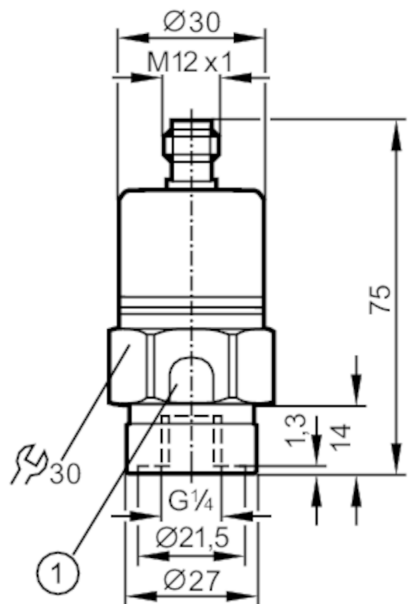


PA9020



Pressure transmitter with ceramic measuring cell

PA-400-SBR14-B-DVG/US/V



- 1 pressure relief mechanism
No mechanical force must be exerted on the pressure relief mechanism.



Product characteristics			
Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...400 bar	0...5800 psi	0...40 MPa
Process connection	threaded connection G 1/4 internal thread		
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	1000 bar	14500 psi	100 MPa
Pressure rating	600 bar	8700 psi	60 MPa
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		
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	0...400 bar	0...5800 psi	0...40 MPa
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Accuracy / deviations

Repeatability [X21]	< 0,1; (with temperature fluctuations < 10 K)		
Characteristics deviation [X21]	< $\pm 0,25$ (BFSL) / < $\pm 0,5$ (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)		
Long-term stability [X21]	< $\pm 0,05$; (per 6 months)		
Temperature coefficient zero point [X22]	0,1; (0...80 °C)		
Temperature coefficient span [X22]	0,2; (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
Shock resistance	ISO 7637-2 pulse	severity level 4
	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 [ANN]	478	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Railway applications	DIN EN 50155 / IEC 60571	Klasse T3, C1, S1

Mechanical data

Weight [g]	222
Materials	stainless steel (316L/1.4404); FKM; PA; EPDM/X
Materials (wetted parts)	stainless steel (303/1.4305); ceramics; FKM
Min. pressure cycles	100 million
Process connection	threaded connection G 1/4 internal thread

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Restrictor element integrated	yes
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Remarks

Pack quantity	1 pcs.
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Electrical connection

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



Connection

