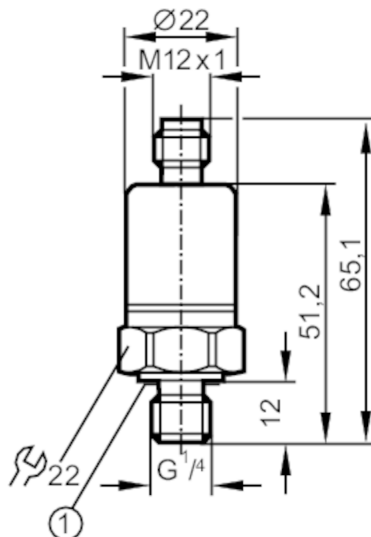




Pressure transmitter

PT-100-SBG14-B-DVG/US/ IW



- 1 Sealing
Tightening torque 25 Nm



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...100 bar	0...1450 psi	0...10 MPa
Process connection	threaded connection G 1/4 external thread		

Application

Application	for mobile applications		
Media	liquids and gases		
Medium temperature [°C]	-25...90; (on request: -40...100 °C)		
Min. bursting pressure	1000 bar	14500 psi	100 MPa
Pressure rating	200 bar	2900 psi	20 MPa
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	16...36 DC		
Current consumption [mA]	< 6		
Min. insulation resistance [MΩ]	100; (80 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
Output signal	analogue signal
Number of analogue outputs	1
Analogue voltage output [V]	0...10
Min. load resistance [Ω]	2000

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Measuring/setting range				
Measuring range		0...100 bar	0...1450 psi	0...10 MPa
Accuracy / deviations				
Repeatability [% of the span]		< ± 0,1; (with temperature fluctuations < 10 K)		
Characteristics deviation [% of the span]		< ± 1,0; (incl. drift when overtightened, zero point and span error)		
Linearity deviation [% of the span]		< ± 0,25 (BFSL) / < ± 0,5 (LS)		
Hysteresis deviation [% of the span]		< ± 0,2		
Long-term stability [% of the span]		< ± 0,1; (per 6 months)		
Temperature coefficient zero point [% of the span / 10 K]		< ± 0,1; (-25...90 °C)		
Temperature coefficient span [% of the span / 10 K]		< ± 0,1; (-25...90 °C)		
Response times				
Step response time analogue output [ms]		8		
Operating conditions				
Ambient temperature [°C]		-25...90		
Storage temperature [°C]		-40...100		
Protection		IP 67; IP 69K		
Tests / approvals				
EMC		EN 61000-4-2 ESD immunity	4 kV CD / 8 kV AD according to the automotive directive 1995/54/EC, 2004/104 EC, 2005/83/EC	
		ISO 11452-2	100 V/m	
		ISO 11452-4	100 mA / severity level 4	
		ISO 7637-2	severity level 4	
		radiation of interference	CISPR 25	
		EN 61000-6-1		
		EN 61000-6-4		
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]		1069		
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		
Mechanical data				
Weight [g]		82.5		
Housing		cylindrical		
Dimensions [mm]		Ø 22 / L = 65.1		
Materials		stainless steel (316L/1.4404); PA		
Materials (wetted parts)		stainless steel (316L/1.4404); FKM		
Min. pressure cycles		50 million		
Process connection		threaded connection G 1/4 external thread		

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Restrictor element integrated	yes
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Remarks

Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection

