



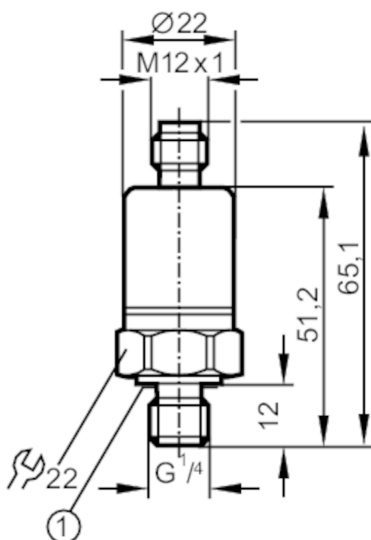
Pressure transmitter

PT-250-SBG14-B-DVG/US/ IW

phase-out article

Alternative articles: PU5401

When selecting an alternative article and accessories please note that technical data may differ!



- 1 Sealing
Tightening torque 25 Nm



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...250 bar	0...3625 psi	0...25 MPa
Process connection	threaded connection G 1/4 external thread		

Application

Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-25...90		
Min. bursting pressure	1000 bar	14500 psi	100 MPa
Pressure rating	400 bar	5800 psi	40 MPa
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	16...36 DC		
Current consumption [mA]	< 6		
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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Pressure transmitter

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Output signal		analogue signal	
Number of analogue outputs		1	
Analogue voltage output [V]		0...10	
Min. load resistance [Ω]		2000	
Measuring/setting range			
Measuring range		0...250 bar	0...3625 psi 0...25 MPa
Accuracy / deviations			
Repeatability [X21]		< ± 0,1; (with temperature fluctuations < 10 K)	
Characteristics deviation [X21]		< ± 1,0; (incl. drift when overtightened, zero point and span error)	
Linearity deviation [X21]		< ± 0,25 (BFSL) / < ± 0,5 (LS)	
Hysteresis deviation [X21]		< ± 0,2	
Long-term stability [X21]		< ± 0,1; (per 6 months)	
Temperature coefficient zero point [X22]		< ± 0,1; (-25...90 °C)	
Temperature coefficient span [X22]		< ± 0,1; (-25...90 °C)	
Response times			
Step response time analogue output [ms]		3	
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	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	4 kV coupling clamp
		EN 61000-4-5 Surge	1 kV signal for DC units
		EN 61000-4-6 HF conducted	10 V
Shock resistance		DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance		DIN IEC 68-2-6	20 g (10...2000 Hz)
MTTF [ANN]		1116	
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data			
Weight [g]		82.5	
Materials		stainless steel (1.4404 / 316L); PA	
Materials (wetted parts)		stainless steel (1.4404 / 316L); FKM	
Min. pressure cycles		50 million	
Process connection		threaded connection G 1/4 external thread	
Restrictor element integrated		no (can be retrofitted)	
Remarks			
Remarks		BFSL = Best Fit Straight Line LS = limit value setting	
Pack quantity		1 pcs.	

PT9541



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Electrical connection

Connector: 1 x M12; coding: A



Connection

