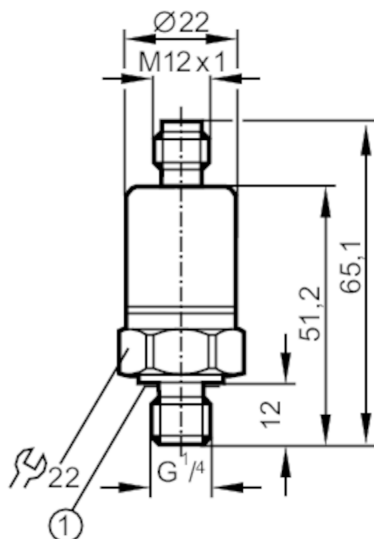




Pressure transmitter

PT-010-RBG14-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...10 bar	0...145 psi	0...1000 kPa	0...1 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	300 bar	4350 psi	30 MPa
Pressure rating	25 bar	362 psi	2.5 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

PT9554



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Measuring/setting range				
Measuring range	0...10 bar	0...145 psi	0...1000 kPa	0...1 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]	85.5		
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		
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

