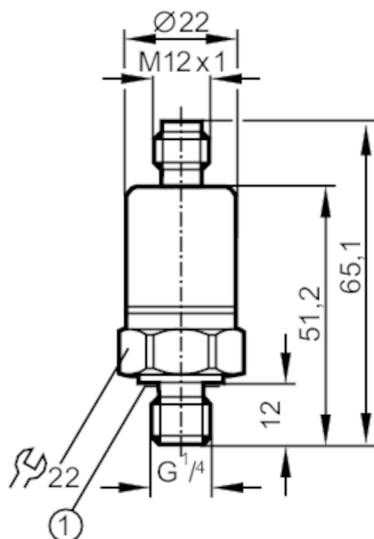




Pressure transmitter

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



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Measuring/setting range					
Measuring range		0...10 bar	0...145 psi	0...1000 kPa	0...1 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]	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	[ANN]	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 (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		yes			
Remarks					
Remarks		BFSL = Best Fit Straight Line			
		LS = limit value setting			
Pack quantity		1 pcs.			

PT9554



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Electrical connection

Connector: 1 x M12; coding: A



Connection

