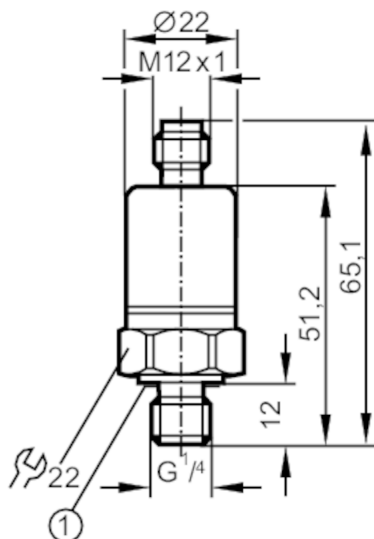




Pressure transmitter

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		[% of the span]				< ± 0,1; (with temperature fluctuations < 10 K)
Characteristics deviation		[% of the span]				
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

