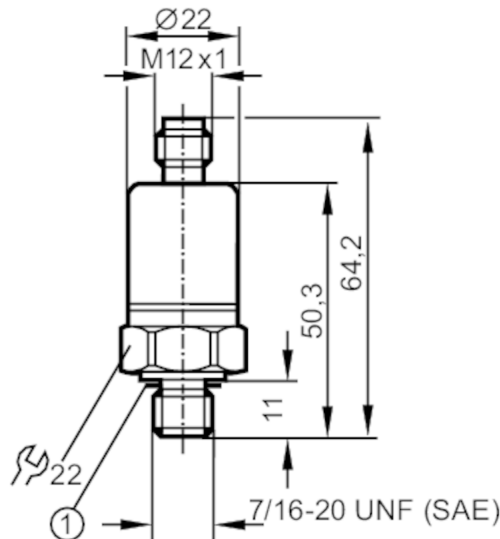


PC9010



Pressure transmitter

PT-500PSBU76-B-DVG/US/ /W



1 O-ring
Tightening torque 25 Nm



Product characteristics	
Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [psi]	0...5000
Process connection	threaded connection 7/16" - 20 UNF (SAE) external thread
Application	
Application	for mobile applications
Media	liquids and gases
Medium temperature [°C]	-40...90
Min. bursting pressure [psi]	23200
Pressure rating [psi]	8700
Type of pressure	relative pressure
Electrical data	
Operating voltage [V]	8...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
Outputs	
Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1
Analogue voltage output [V]	0...5



Pressure transmitter

PT-500PSBU76-B-DVG/US/ /W

Min. load resistance	[Ω]	2000
Measuring/setting range		
Measuring range	[psi]	0...5000
Accuracy / deviations		
Repeatability	[% of the span]	$< \pm 0,1$; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the span]	$< \pm 1,0$; (incl. drift when overtightened, zero point and span error)
Linearity deviation	[% of the span]	$< \pm 0,25$ (BFSL) / $< \pm 0,5$ (LS)
Hysteresis deviation	[% of the span]	$< \pm 0,2$
Long-term stability	[% of the span]	$< \pm 0,1$; (per 6 months)
Temperature coefficient zero point	[% of the span / 10 K]	$< \pm 0,15$; (-25...90 °C)
Temperature coefficient span	[% of the span / 10 K]	$< \pm 0,15$; (-25...90 °C)
Response times		
Step response time analogue output	[ms]	8
Operating conditions		
Ambient temperature	[°C]	-40...90
Storage temperature	[°C]	-40...90
Protection		IP 67; IP 69K
Tests / approvals		
EMC	DIN 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
	DIN EN 61000-6-1	
	DIN EN 61000-6-4	
Shock resistance	DIN EN 68-2-27	50 g (11 ms)
Vibration resistance	DIN EN 68-2-6	20 g (10...2000 Hz)
MTTF	[years]	865
Mechanical data		
Weight	[g]	74.5
Materials		stainless steel (316L/1.4404); PA PACM 12 (TROGAMID)
Materials (wetted parts)		stainless steel (316L/1.4404); FPM Viton
Min. pressure cycles		50 million
Process connection		threaded connection 7/16" - 20 UNF (SAE) external thread
Restrictor element integrated		yes

PC9010



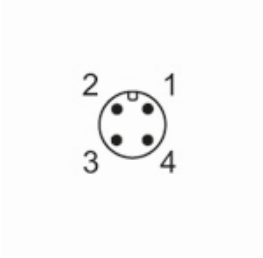
Pressure transmitter

PT-500PSBU76-B-DVG/US/ /W

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

Electrical connection

Connector: 1 x M12; coding: A



Connection

