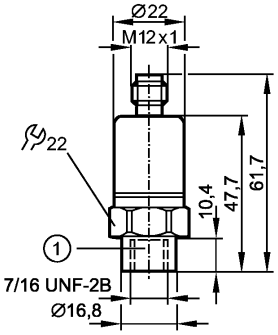
efectorsoo
PC9013

PT-075PSBU76-B-DVG/US/ /W

Pressure sensors



1: Process connection with Schrader connection

Product characteristics

Electronic pressure sensor		
Connector		
for industrial applications		
Process connection: 7/16 UNF-2B		
Analogue output		
Measuring range: 0...750 psi		
Application		
Application		Type of pressure: relative pressure Liquids and gases
Pressure rating	[psi]	870
Bursting pressure min.	[psi]	8702
Medium temperature	[°C]	-25...90
Electrical data		
Electrical design		DC
Operating voltage	[V]	16...36 DC
Current consumption	[mA]	< 6
Insulation resistance	[MΩ]	> 100 (500 V DC)
Protection class		III
Reverse polarity protection		yes
Outputs		
Output		Analogue output
Output function		0...10 V
Min. load	[Ω]	2000
Measuring / setting range		
Measuring range	[psi]	0...750
Accuracy / deviations		
Accuracy / deviations (in % of the span)		
Characteristics deviation *)		< ± 1.4
Linearity		< ± 0.25 (BFSL) / < ± 0.5 (LS)
Hysteresis		< ± 0.3
Repeatability **)		< ± 0.1
Long-term stability ***)		< ± 0.1
Temperature coefficients (TEMPCO) in the temperature range -25...90° C (in % of the span per 10 K)		
Greatest TEMPCO of the zero point		< ± 0.1
Greatest TEMPCO of the span		< ± 0.1
Environment		
Ambient temperature	[°C]	-25...90
Storage temperature	[°C]	-40...100
Protection		IP 67 / IP 69K

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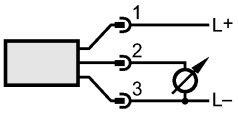
Tests / approvals			
EMC		EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-5 Surge: EN 61000-4-6 HF conducted:	4 kV CD / 8 kV AD 10 V/m 4 kV coupling clamp 1 kV signal for DC units 10 V
Shock resistance		DIN IEC 68-2-27:	50 g (11 ms)
Vibration resistance		DIN IEC 68-2-6:	20 g (10...2000 Hz)
MTTF	[Years]	1116	
Mechanical data			
Process connection		7/16 UNF-2B	
Materials (wetted parts)		stainless steel 316L / 1.4404	
Housing materials		stainless steel 316L / 1.4404; TROGAMID	
Min. pressure cycles		50 million	
Weight	[kg]	0.072	
Electrical connection			
Connection		M12 connector	

Wiring



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Remarks

Remarks		*) incl. drift due to tightening torque, zero and span error **) with temperature fluctuations < 10 K ***) in% of the span / 6 months BFSL = Best Fit Straight Line / LS = Limit Value Setting
Pack quantity	[piece]	1