

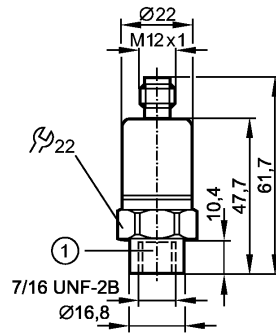


PC9013

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



Pressure sensors



1: Process connection with Schrader connection



Product characteristics

Electronic pressure sensor

Quick disconnect

for industrial applications

Process connection: 7/16 UNF-2B

Analog 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	Analog output
Output function	0...10 V
Min. load [Ω]	2000

Measuring / setting range

Measuring range [psi]	0...750
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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)



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Greatest TEMPCO of the zero point	< ± 0.1
Greatest TEMPCO of the span	< ± 0.1

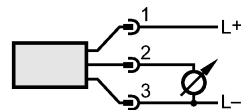
Environment	
Ambient temperature [°C]	-25...90
Storage temperature [°C]	-40...100
Protection	IP 67 / IP 69K

Tests / approvals	
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 4 kV coupling clamp EN 61000-4-5 Surge: 1 kV signal for DC units EN 61000-4-6 HF conducted: 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
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Pack quantity	[piece]	1
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