

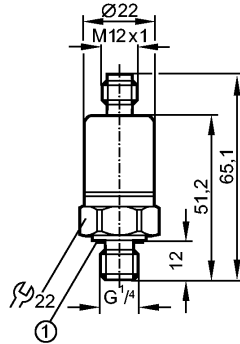


PC3504

PT-010-RBG14-A-ZVG/US/ IW



Pressure sensors



1: FKM seal / DIN 3869-14
tightening torque 25 Nm



Product characteristics

Electronic pressure sensor

for industrial applications

Process connection: G 1/4 A

Analog output

Measuring range: 0...16 bar

Application

Application	Type of pressure: relative pressure Liquids and gases
Pressure rating [bar]	25
Bursting pressure min. [bar]	300
Medium temperature [°C]	-25...90

Electrical data

Electrical design	DC
Operating voltage [V]	8.5...36 DC
Insulation resistance [MΩ]	> 100 (500 V DC)
Protection class	III
Reverse polarity protection	yes

Outputs

Output	Analog output
Output function	4...20 mA analog
Analog output	4...20 mA
Max. load [Ω]	(U _b - 8.5 V) x 50; 775 at U _b = 24 V

Measuring / setting range

Measuring range [bar]	0...16
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Accuracy / deviations

Accuracy / deviations (in % of the span)	
Characteristics deviation *)	< ± 1.0
Linearity	< ± 0.25 (BFSL) / < ± 0.5 (LS)
Hysteresis	< ± 0.2
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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Pressure sensors

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

Reaction times

Step response time analogue output [ms]	3
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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]	968

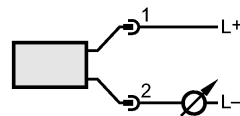
Mechanical data

Process connection	G ¼ A
Materials (wetted parts)	stainless steel 316L / 1.4404; sealing: FPM (Viton)
Housing materials	stainless steel 316L / 1.4404; TROGAMID
Min. pressure cycles	50 million
Weight [kg]	0.076

Electrical connection

Connection	M12 connector
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Wiring



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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