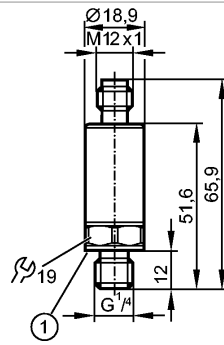


PT5403

PT-025-SEG14-A-ZVG/US/ IW

Pressure sensors



1: sealing FKM / DIN 3869

Made in Germany



Product characteristics

Electronic pressure sensor
for industrial applications
Process connection: G ¼ A (according to DIN EN ISO 1179-2)
Analogue output
Measuring range: 0...25 bar

Application

Application	Type of pressure: relative pressure liquids and gases of the fluid group 2 according to Article 9 of the Pressure Equipment Directive (PED)
Pressure rating [bar]	65 (static)
Bursting pressure min. [bar]	600
Medium temperature [°C]	-40...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	Analogue output
Output function	4...20 mA analogue
Short-circuit proof	yes
Overload protection	yes
Analogue output	4...20 mA
Max. load [Ω]	($U_b - 8.5 V$) / 21.5 mA; 720 at $U_b = 24 V$

Measuring / setting range

Measuring range [bar]	0...25
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Accuracy / deviations

Accuracy / deviations (in % of the span)	
Characteristics deviation *)	< ± 0.5
Linearity	< ± 0.1 (BFSL) / < ± 0.2 (LS)
Hysteresis	< ± 0.2
Repeatability **)	< ± 0.05
Long-term stability ***)	< ± 0.1

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Pressure sensors

Temperature coefficients (TEMPCO) in the temperature range -40...90° C (in % of the span per 10 K)

Greatest TEMPCO of the zero point + span	< 0.1 (-25...90 °C) / < 0.2 (-40...-25 °C)
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Reaction times

Step response time analogue output [ms]	1
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Environment

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

Tests / approvals

EC pressure equipment directive 97/23/EC	Article 3, section 3 - sound engineering practice
EMC	DIN EN 61000-6-2 DIN EN 61000-6-3
Shock resistance	DIN EN 60068-2-27: 50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6: 20 g (10...2000 Hz)
MTTF [Years]	686

Mechanical data

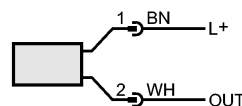
Process connection	G ¼ A (according to DIN EN ISO 1179-2)
Materials (wetted parts)	1.4542
Housing materials	stainless steel 316L / 1.4404; PA
Min. pressure cycles	60 millions in the course of the lifetime (at 1.2 times the nominal pressure)
Tightening torque [Nm]	25...35 (recommended tightening torque ¹)
Weight [kg]	0.056

Electrical connection

Connection	M12 connector
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Wiring

Core colours
BN brown
WH white



OUT: Analogue output

The following pin connection is available on request:

pin 1: L+, pin 3: OUT

Colours to DIN EN 60947-5-6

Remarks

Remarks	<p>*) incl. drift when overtightened, zero point and span error, non-linearity, hysteresis</p> <p>**) with temperature fluctuations < 10 K</p> <p>***) in% of the span / 6 months</p> <p>¹) Depends on lubrication, seal and pressure rating</p> <p>BFSL = Best Fit Straight Line / LS = Limit Value Setting</p>
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Pack quantity [piece]	1
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