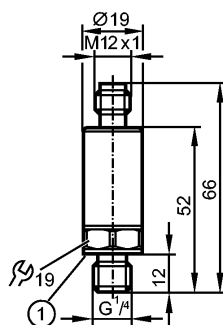


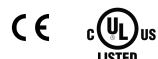
PT5403

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

Pressure sensors



1: Process connection sealing FKM / DIN 3869



Product characteristics

Electronic pressure sensor

for industrial applications

Process connection: G 1/4 A (according to DIN EN ISO 1179-2)

Analog output

Measuring range: 0...25 bar

Application

Application	Type of pressure: relative pressure Group 2 fluids according to the Pressure Equipment Directive (PED), group 1 fluids on request	
Pressure rating [bar]	65 (static)	
Bursting pressure min. [bar]	600	
Vacuum resistance [mbar]	-1000	
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	Analog output	
Output function	4...20 mA analog	
Short-circuit proof	yes	
Overload protection	yes	
Analog 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

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Pressure sensors

Long-term stability ***)	< ± 0.1
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)

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

Pressure equipment directive	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

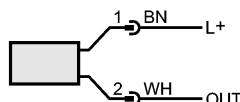
Process connection	G ¼ A (according to DIN EN ISO 1179-2)
Process connection sealing	FKM (to DIN 3869)
Materials (wetted parts)	1.4542 (17-4 PH / 630) ²
Housing materials	1.4542 (17-4 PH / 630) ² ; stainless steel (316L / 1.4404); PEI
Min. pressure cycles	60 millions in the course of the lifetime (at 1.2 times the nominal pressure)
Tightening torque [Nm]	25...35 (recommended tightening torque ¹)
Restrictor element integrated	no
Weight [kg]	0.056

Electrical connection

Connection	M12 connector
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Wiring

Core colors
BN brown
WH white



OUT: 4...20 mA

The following pin connection is available on request:

pin 1: L+, pin 3: OUT

Colours to DIN EN 60947-5-2

Remarks

Remarks	*) incl. drift when overtightened, zero point and span error, non-linearity, hysteresis **) with temperature fluctuations < 10 K ***) in% of the span / 6 months ¹) Depends on lubrication, seal and pressure rating ²) Characteristics similar to stainless steel (e.g. 304/1.4301) but higher strength.
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Pressure sensors

	BFSL = Best Fit Straight Line / LS = Limit Value Setting	
Pack quantity	[piece]	1