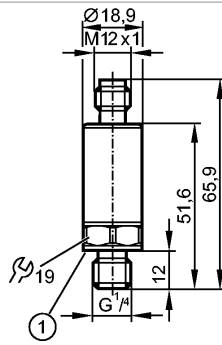


**PT5404**

PT-010-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 ¼ A (according to DIN EN ISO 1179-2)
Analogue output
Measuring range: 0...10 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]	25 (static)
Bursting pressure min. [bar]	300
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	Analogue output
Output function	4...20 mA analogue
Short-circuit proof	yes
Overload protection	yes
Analogue output	4...20 mA
Max. load [Ω]	(U <sub>b</sub> - 8.5 V) / 21.5 mA; 720 at U <sub>b</sub> = 24 V

**Measuring / setting range**

Measuring range [bar]	0...10
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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
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Temperature coefficients (TEMPCO) in the temperature range -40...90° C (in % of the span per 10 K)	
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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
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Storage temperature [°C]	-40...100
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Protection	IP 67 / IP 69K
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**Tests / approvals**

Pressure equipment directive	Sound engineering practice
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EMC	DIN EN 61000-6-2 DIN EN 61000-6-3
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Shock resistance	DIN EN 60068-2-27      50 g (11 ms)
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Vibration resistance	DIN EN 60068-2-6      20 g (10...2000 Hz)
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MTTF [Years]	686
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**Mechanical data**

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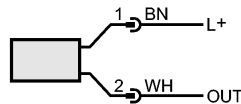
Weight [kg]	0.056
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**Electrical connection**

Connection	M12 connector
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**Wiring**

Core colours  
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 60947-5-6

**Remarks**

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

BFSL = Best Fit Straight Line / LS = Limit Value Setting

Pack quantity

[piece]

1

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