

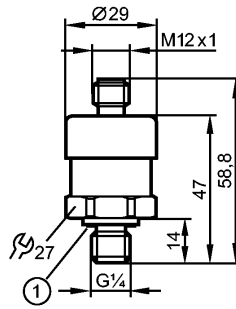


PT0507

PT-001-AFG14-A-ZVG/US



Pressure sensors



1: Process connection sealing NBR / DIN 3869



Product characteristics

Elektronischer Absolutdrucksensor

for industrial applications

Füllflüssigkeit zur Druckübertragung: Synthetisches Öl

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

Analog output

Measuring range: 0...1 bar

Application

Application	Druckart: Absolutdruck Medien der Fluidgruppe 2 gemäß der Druckgeräterichtlinie (DGRL), Medien der Fluidgruppe 1 auf Anfrage
Pressure rating [bar]	2
Bursting pressure min. [bar]	5
Medium temperature [°C]	0...80

Electrical data

Electrical design	DC
Operating voltage [V]	8...30 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
Analog output	4...20 mA
Max. load [Ω]	(U _b - 8 V) / 20 mA; 800 at U _b = 24 V

Measuring / setting range

Measuring range [bar]	0...1
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Accuracy / deviations

Accuracy / deviations (in % of the span)	
Characteristics deviation *)	< ± 1.0
Linearity	< ± 0.5 (BFSL) / < ± 1.0 (LS)
Repeatability **)	< ± 0.1
Long-term stability ***)	< ± 0.1

Temperature coefficients (TEMPCO) in the temperature range 0...80° C (in % of the span per 10 K)



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Greatest TEMPCO of the zero point	< ± 0.2
Greatest TEMPCO of the span	< ± 0.2

Reaction times

Step response time analogue output [ms]	4
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Environment

Ambient temperature [°C]	0...80
Storage temperature [°C]	-20...80
Protection	IP 67

Tests / approvals

Pressure equipment directive	sound engineering practice	
EMC	DIN EN 61326-1	
Shock resistance	DIN EN 60068-2-27	500 g (1 ms)
Vibration resistance	DIN EN 60068-2-6	10 g (10...2000 Hz)

Mechanical data

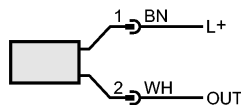
Process connection	G ¼ A (according to DIN EN ISO 1179-2)	
Process connection sealing	NBR (nach DIN 3869)	
Materials (wetted parts)	stainless steel (316L / 1.4404)	
Housing materials	stainless steel (316L / 1.4404); HNBR; PA	
Min. pressure cycles	10 million	
Tightening torque [Nm]	25...35 (recommended tightening torque ¹)	
Restrictor element integrated	no	
Weight [kg]	0.12	

Electrical connection

Connection	M12 connector
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Wiring

Core colors
 BN brown
 WH white



OUT: 4...20 mA
 Colours to DIN EN 60947-5-2

Remarks

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