

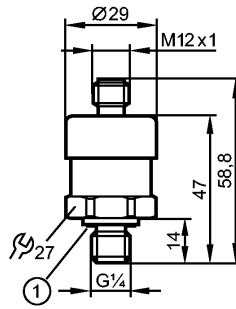


# PT0517

PT-1.6-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...1.6 bar

## Application

Application	Druckart: Absolutdruck Medien der Fluidgruppe 2 gemäß der Druckgeräterichtlinie (DGRL), Medien der Fluidgruppe 1 auf Anfrage
Pressure rating [bar]	3.2
Bursting pressure min. [bar]	10
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]	(Ub - 8 V) / 20 mA; 800 at Ub = 24 V

## Measuring / setting range

Measuring range [bar]	0...1.6
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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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Pressure sensors

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

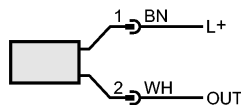
Process connection	G ¼ A (according to DIN EN ISO 1179-2)	
Process connection sealing	NBR (nach DIN 3869)	
Materials (wetted parts)	stainless steel (316L / 1.4404)	
Housing materials	stainless steel (316L / 1.4404); HNBR; PA	
Min. pressure cycles	10 million	
Tightening torque [Nm]	25...35 (recommended tightening torque <sup>1</sup> )	
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 &lt; 10 K          ***) in % of the span per year  <sup>1</sup>) 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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