

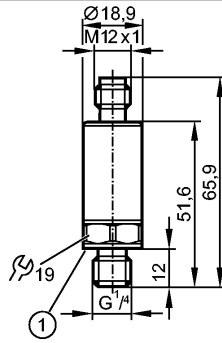


# PT5460

PT-600-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)

Analog output

Measuring range: 0...600 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]

1500 (static)

Bursting pressure min. [bar]

2500

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]

( $U_b - 8.5 \text{ V}$ ) / 21.5 mA; 720 at  $U_b = 24 \text{ V}$

## Measuring / setting range

Measuring range [bar]

0...600

## 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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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	Module A
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]	784

### Mechanical data

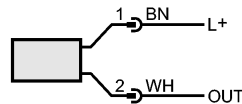
Process connection	G ¼ A (according to DIN EN ISO 1179-2)
Process connection sealing	FKM (to DIN 3869)
Materials (wetted parts)	1.4542 (17-4 PH / 630) <sup>2</sup>
Housing materials	1.4542 (17-4 PH / 630) <sup>2</sup> ; stainless steel (316L / 1.4404); PEI
Min. pressure cycles	60 millions in the course of the lifetime (at 1.2 times the nominal pressure)
Tightening torque [Nm]	30...50 (recommended tightening torque <sup>1</sup> )
Restrictor element integrated	no
Weight [kg]	0.058

### 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	<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