

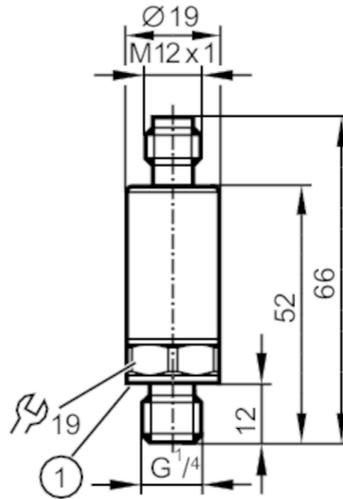
# PT5460



## Pressure transmitter

PT-600-SEG14-A-ZVG/US/ IW

When selecting an alternative article and accessories please note that technical data may differ!



1 Sealing



### Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...600 bar	0...8700 psi	0...60 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		

### Application

Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...90		
Min. bursting pressure	2500 bar	36255 psi	250 MPa
Pressure rating	1500 bar	21755 psi	150 MPa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		

### Electrical data

Operating voltage [V]	8.5...36 DC		
Min. insulation resistance [MΩ]	100; (500 V DC)		
Protection class	III		
Reverse polarity protection	yes		
Power-on delay time [s]	< 0.1		

### Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 1		
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### Outputs

Total number of outputs	1		
Output signal	analogue signal		
Number of analogue outputs	1		
Analogue current output [mA]	4...20		

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Max. load	[ $\Omega$ ]	$(U_b - 8,5 \text{ V}) / 21,5 \text{ mA}$ ; @8,5V = 0 $\Omega$ ; @12V max. 160 $\Omega$ ; @24V max. 720 $\Omega$
Short-circuit proof		yes
Overload protection		yes

### Measuring/setting range

Measuring range	0...600 bar	0...8700 psi	0...60 MPa
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### Accuracy / deviations

Repeatability	[% of the span]	$< \pm 0,05$ ; (with temperature fluctuations $< 10 \text{ K}$ )
Characteristics deviation	[% of the span]	$< \pm 0,5$ ; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation	[% of the span]	$< \pm 0,1$ (BFSL) / $< \pm 0,2$ (LS)
Hysteresis deviation	[% of the span]	$< \pm 0,2$
Long-term stability	[% of the span]	$< \pm 0,1$ ; (per 6 months)
Temperature coefficient zero point and span	[% of the span / 10 K]	$< 0,1$ ( $-25...90 \text{ }^\circ\text{C}$ ) / $< 0,2$ ( $-40...-25 \text{ }^\circ\text{C}$ )

### Response times

Step response time analogue output	[ms]	1
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### Operating conditions

Ambient temperature	[ $^\circ\text{C}$ ]	-40...90
Storage temperature	[ $^\circ\text{C}$ ]	-40...100
Protection		IP 67; IP 69K

### Tests / approvals

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
UL approval	UL Approval no.	J026
	File number UL	E174189
Pressure Equipment Directive		Modul A; can be used for group 2 fluids; group 1 fluids on request

### Mechanical data

Weight	[g]	59.5
Materials		stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PEI
Materials (wetted parts)		stainless steel (630/1.4542/17-4 PH)
Min. pressure cycles		60 million; (at 1.2 times nominal pressure)
Tightening torque	[Nm]	30...50; (recommended tightening torque; depends on lubrication, seal and pressure rating)
Process connection		threaded connection G 1/4 external thread (DIN EN ISO 1179-2)
Process connection sealing		FKM (DIN EN ISO 1179-2)
Restrictor element integrated		no (can be retrofitted)

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### Remarks

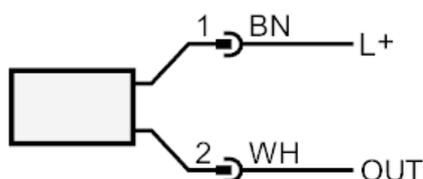
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

### Electrical connection

Connector: 1 x M12; coding: A



### Connection



OUT            analogue output  
The following pin connection is available under article number PT53xx Pin 1: L+, Pin 3: OUT  
colours to DIN EN 60947-5-2  
Core colours :  
BN            brown  
WH            white