

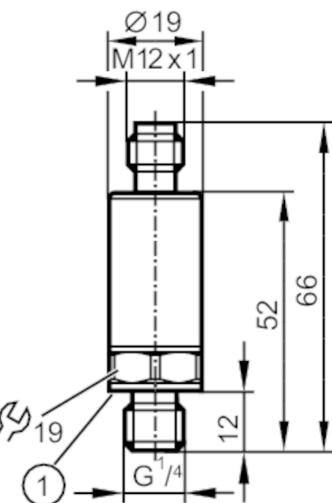
# PT5501



## Pressure transmitter

PT-250-SEG14-A-ZVG/US

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...250 bar	0...3625 psi	0...25 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		

#### Application

Application	for mobile applications		
Media	liquids and gases		
Medium temperature [°C]	-40...125		
Min. bursting pressure	1200 bar	17400 psi	120 MPa
Pressure rating	625 bar	9060 psi	62.5 MPa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		

#### Electrical data

Operating voltage [V]	8...32 DC		
Min. insulation resistance [ $M\Omega$ ]	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	[Ω]	(Ub - 8 V) / 21,5 mA; @8V = 0 Ω; @12V max. 200 Ω; @24V max. 750 Ω
Short-circuit proof		yes
Overload protection		yes
<b>Measuring/setting range</b>		
Measuring range		0...250 bar   0...3625 psi   0...25 MPa
<b>Accuracy / deviations</b>		
Repeatability	[% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the span]	< ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation	[% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (LS)
Hysteresis deviation	[% of the span]	< ± 0,2
Long-term stability	[% of the span]	< ± 0,1; (per 6 months)
Temperature coefficient zero point	[% of the span / 10 K]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)
Temperature coefficient span	[% of the span / 10 K]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)
<b>Response times</b>		
Step response time analogue output	[ms]	2
<b>Operating conditions</b>		
Ambient temperature	[°C]	-40...100
Storage temperature	[°C]	-40...100
Protection		IP 67; IP 69K
<b>Tests / approvals</b>		
EMC		compliant with UN ECE R10, rev. 5   (E1 compliant)
		ISO 11452-2   100 V/m
		DIN EN 61326-1
Shock resistance		DIN EN 60068-2-27   500 g (1 ms)
Vibration resistance		DIN EN 60068-2-6   20 g (10...2000 Hz)
MTTF	[years]	704
UL approval		UL Approval no. J072
		File number UL E174189
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
<b>Mechanical data</b>		
Weight	[g]	59
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]	25...35; (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		HNBR (DIN EN ISO 1179-2)

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Restrictor element integrated

yes

### Remarks

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BFSL = Best Fit Straight Line

LS = limit value setting

Pack quantity

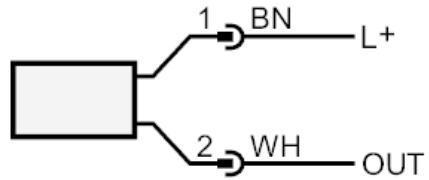
1 pcs.

### Electrical connection

Connector: 1 x M12; coding: A; Maximum cable length: 30 m



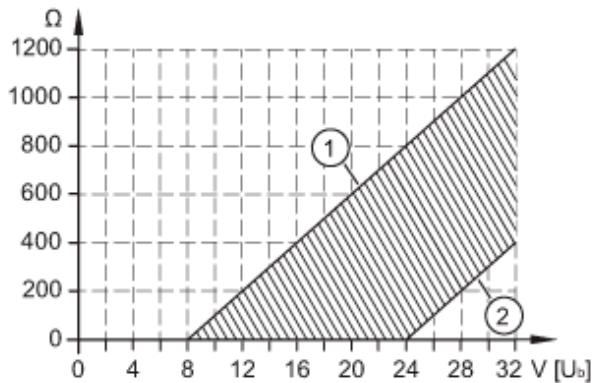
### Connection



OUT                   analogue output  
                        colours to DIN EN 60947-5-2  
                        Core colours :  
BN =                 brown  
WH =                 white

### Diagrams and graphs

characteristic load curve of current output



1: Max. load

2: min. load