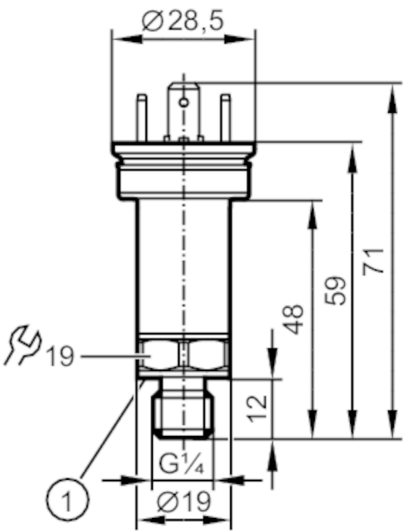


PT5004



Pressure transmitter

PT-010-SEG14-A-ZVG/VE



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1			
Measuring range	0...10 bar	0...145 psi	0...1000 kPa	0...1 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)			

Application

Measuring element	metallic thin film cell		
Application	for mobile applications; for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...125		
Min. bursting pressure	300 bar	4350 psi	30 MPa
Pressure rating	25 bar	360 psi	2.5 MPa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	8...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

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			
Measuring/setting range					
Measuring range		0...10 bar	0...145 psi	0...1000 kPa	0...1 MPa
Accuracy / deviations					
Repeatability	[% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)			
Characteristics deviation	[% of the span]	< ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)			
Linearity deviation	[% of the span]	< ± 0,1 (BFSL) / < ± 0,2 (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)			
Response times					
Step response time analogue output	[ms]	2			
Operating conditions					
Ambient temperature	[°C]	-40...100			
Storage temperature	[°C]	-40...100			
Protection		IP 67			
Tests / approvals					
EMC		Compliant with ECE R 10, rev. 5	(E1 compliant)		
		DIN EN ISO 13766-1 : 2018	earthworks and construction machines		
		DIN EN ISO 14982 : 2009	agricultural and forestry machines		
		ISO 11452-2	100 V/m		
		ISO 7637-2 : 2011 pulse 1	Test severity III. function state C		
		ISO 7637-2 : 2011 pulse 2b	test severity IV. function state C		
		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]	715			
UL approval		UL Approval no.	J032		
		File number UL	E174189		
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request			
Mechanical data					
Weight	[g]	67			
Materials		stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PPS			
Materials (wetted parts)		stainless steel (630/1.4542/17-4 PH); stainless steel (303/1.4305)			
Min. pressure cycles		60 million; (at 1.2 times nominal pressure)			

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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		FKM (DIN EN ISO 1179-2)
Restrictor element integrated		yes

Remarks

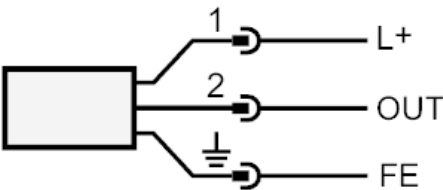
Remarks	BFSL = Best Fit Straight Line
	LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x valve plug type A DIN (EN175301-803-A)



Connection



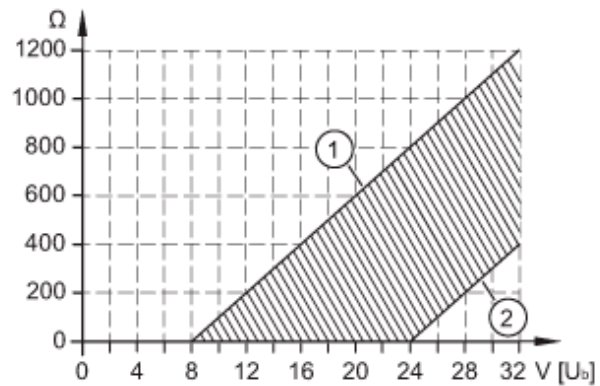
OUT	analogue output
FE	functional earth

Pressure transmitter

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Diagrams and graphs

characteristic load curve of current
output



1: Max. load

2: min. load