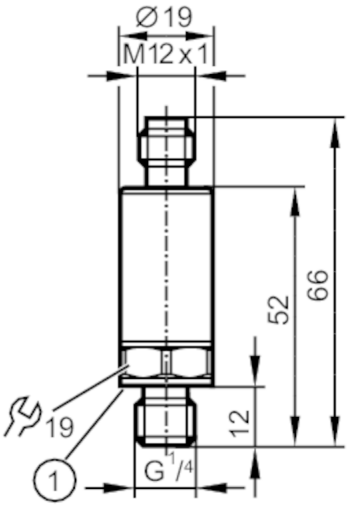
PT5404

Pressure transmitter

PT-010-SEG14-A-ZVG/US/ /W



1 sealing

Product characteristics					
Number of inputs and outputs		Number of analog 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					
Application		for industrial applications			
Media		liquids and gases			
Medium temperature	[°C]	-40...90			
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]	8.5...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 analog outputs: 1			

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Outputs					
Total number of outputs		1			
Output signal		analog signal			
Number of analog outputs		1			
Analog current output	[mA]	4...20			
Max. load	[Ω]	(Ub – 8,5 V) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 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 and span	[% of the span / 10 K]	< 0,1 (-25...90 °C) / < 0,2 (-40...-25 °C)			
Reaction times					
Step response time analog output	[ms]	1			
Operating conditions					
Ambient temperature	[°C]	-40...90			
Storage temperature	[°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]	686			
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request			

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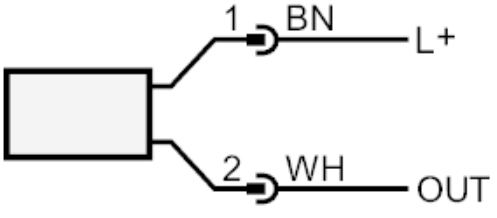
Mechanical data		
Weight	[g]	59
Material		1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI
Materials (wetted parts)		1.4542 (17-4 PH / 630)
Min. pressure cycles		60 million; (at 1.2 times nominal pressure)
Tightening torque	[Nm]	25...35; (recommended tightening torque; Depends on lubrication, seal and pressure rating)
Process connection		threaded connection G 1/4 external thread (DIN EN ISO 1179-2)
Process connection sealing		FKM (DIN EN ISO 1179-2)
Restrictor element integrated		no (can be retrofitted)

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