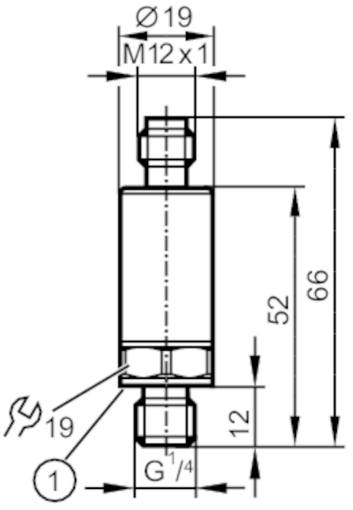
PT5403

Pressure transmitter

PT-025-SEG14-A-ZVG/US/ /W



1 sealing

Product characteristics				
Number of inputs and outputs		Number of analog outputs: 1		
Measuring range		0...25 bar	0...360 psi	0...2.5 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		600 bar	8700 psi	60 MPa
Pressure rating		65 bar	940 psi	6.5 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...25 bar	0...360 psi	0...2.5 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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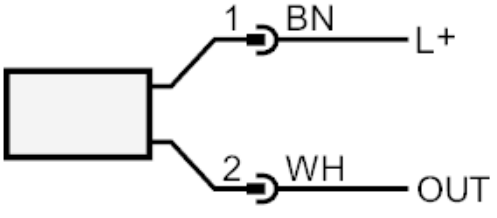
Mechanical data		
Weight	[g]	59
Material		1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI
Materials (wetted parts)		1.4542 (17-4 PH / 630)
Min. pressure cycles		60 million; (at 1.2 times nominal pressure)
Tightening torque	[Nm]	25...35; (recommended tightening torque; Depends on lubrication, 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