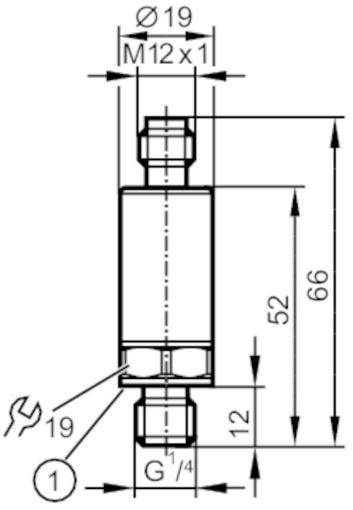
PC5401

Pressure transmitter

PT-250-SEG14-A-ZVG7US/ /W



1 Sealing

Product characteristics		
Number of inputs and outputs		Number of analogue outputs: 1
Measuring range	[bar]	0...250
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	[bar]	1200
Pressure rating	[bar]	625
Note on pressure rating		static
Vacuum resistance	[mbar]	-1000
Type of pressure		relative pressure
Electrical data		
Operating voltage	[V]	16...36 DC
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Inputs / outputs		
Number of inputs and outputs		Number of analogue outputs: 1
Outputs		
Total number of outputs		1
Output signal		analogue signal
Number of analogue outputs		1
Analogue current output	[mA]	4...20
Max. load	[Ω]	720; (Ub = 24 V; (Ub - 8,5 V) / 21,5 mA)
Short-circuit proof		yes

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Pressure transmitter

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Overload protection		yes	
Measuring/setting range			
Measuring range	[bar]	0...250	
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)	
Response times			
Step response time analogue output	[ms]	2	
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	500 g (1 ms)
Vibration resistance		DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF	[years]	787	
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data			
Weight	[g]	52.5	
Materials		1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PA	
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		yes	
Remarks			
Remarks		BFSL = Best Fit Straight Line	
		LS = limit value setting	
Pack quantity		1 pcs.	

PC5401

Pressure transmitter

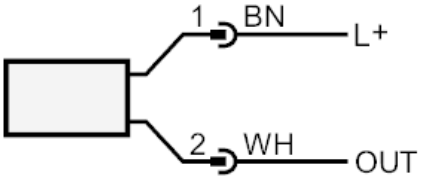
PT-250-SEG14-A-ZVG7US/ /W

Electrical connection

Connector: 1 x M12; coding: A



Connection



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