

PC5024



Pressure transmitter

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



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			

Application

Measuring element	metallic thin film cell		
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...90		
Min. burst pressure	300 bar	4350 psi	30 MPa
Pressure rating	25 bar	360 psi	2.5 MPa
Note on pressure rating	static		
Vacuum resistance	-1000 mbar	-0.1 MPa	
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]	755; (U _b = 24 V; (U _b - 8,5 V) / 20,5 mA)

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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]		< ± 0,8 (-25...65 °C); < ± 1,5 (-40...90 °C); (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]		< 0,25 (-40...90 °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		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]		56.5			
Housing		tubular			
Dimensions [mm]		Ø 19 / L = 66			
Material		stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); 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			
Process connection sealing		FKM (DIN EN ISO 1179-2)			
Restrictor element integrated		no (can be retrofitted)			

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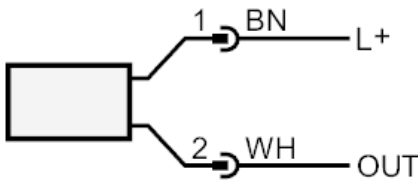
Remarks	
Remarks	BFSL = Best Fit Straight Line
	LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 2



Connection



OUT	analog output Colors to DIN EN 60947-5-2 Core colors :
BN	brown
WH	white