



Pressure transmitter

PT-040-SEG14-A-ZVG/US/ IW

When selecting an alternative article and accessories please note that technical data may differ!



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...40 bar	0...580 psi	0...4 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	800 bar	11600 psi	80 MPa
Pressure rating	100 bar	1450 psi	10 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 analogue outputs: 1
------------------------------	-------------------------------

Outputs

Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1
Analogue current output [mA]	4...20



Pressure transmitter

PT-040-SEG14-A-ZVG/US/ IW

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...40 bar	0...580 psi	0...4 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)		
Response times				
Step response time analogue 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]	784		
UL approval		UL Approval no.	J027	
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		
Mechanical data				
Weight	[g]	59		
Materials		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		

PT5443



Pressure transmitter

PT-040-SEG14-A-ZVG/US/ IW

Pack quantity

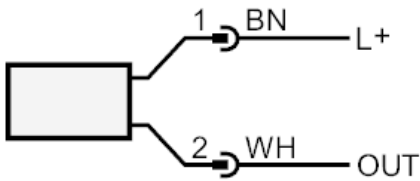
1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



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