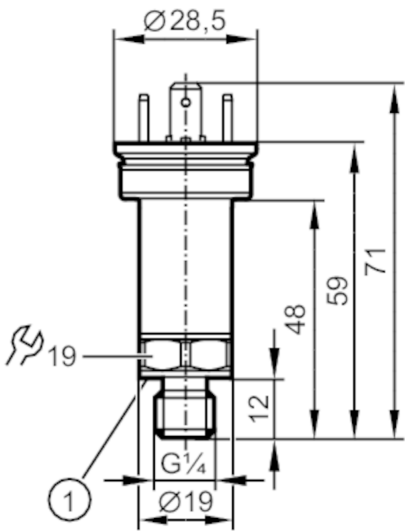


PT5014



Pressure transmitter

PT-016-SEG14-A-ZVG/VE



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...16 bar	0...232 psi	0...1.6 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		

Application

Measuring element	metallic thin film cell		
Application	for mobile applications; for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...125		
Min. bursting pressure	450 bar	6525 psi	45 MPa
Pressure rating	40 bar	580 psi	4 Mpa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	8...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
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Outputs

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



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Max. load	[Ω]	(Ub - 8 V) / 21,5 mA ; @8V= 0 Ω ; @12V max. 200 Ω: @24V max. 750 Ω		
Short-circuit proof		yes		
Overload protection		yes		
Measuring/setting range				
Measuring range		0...16 bar	0...232 psi	0...1.6 MPa
Accuracy / deviations				
Repeatability	[X21]	< ± 0,05; (with temperature fluctuations < 10 K)		
Characteristics deviation	[X21]	< ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)		
Linearity deviation	[X21]	< ± 0,1 (BFSL) / < ± 0,2 (LS)		
Hysteresis deviation	[X21]	< ± 0,2		
Long-term stability	[X21]	< ± 0,1; (per 6 months)		
Temperature coefficient zero point	[X22]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)		
Temperature coefficient span	[X22]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)		
Response times				
Step response time analogue output	[ms]	2		
Operating conditions				
Ambient temperature	[°C]	-40...100		
Storage temperature	[°C]	-40...100		
Protection		IP 67		
Tests / approvals				
EMC	Compliant with ECE R 10, rev. 5		(E1 compliant)	
	DIN EN ISO 13766-1 : 2018		earthworks and construction machines	
	DIN EN ISO 14982 : 2009		agricultural and forestry machines	
	ISO 11452-2		100 V/m	
	ISO 7637-2 : 2011 pulse 1		Test severity III. function state C	
	ISO 7637-2 : 2011 pulse 2b		test severity IV. function state C	
	DIN EN 61326-1			
Shock resistance	DIN EN 60068-2-27		500 g (1 ms)	
Vibration resistance	DIN EN 60068-2-6		20 g (10...2000 Hz)	
MTTF	[ANN]	715		
UL approval	UL Approval no.		J032	
	File number UL		E174189	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request			
Mechanical data				
Weight	[g]	67		
Materials		1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PPS		
Materials (wetted parts)		1.4542 (17-4 PH / 630); stainless steel (1.4305 / 303)		
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		



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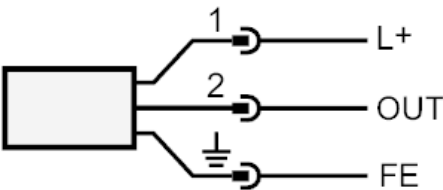
Remarks	
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x valve plug type A DIN (EN175301-803-A)



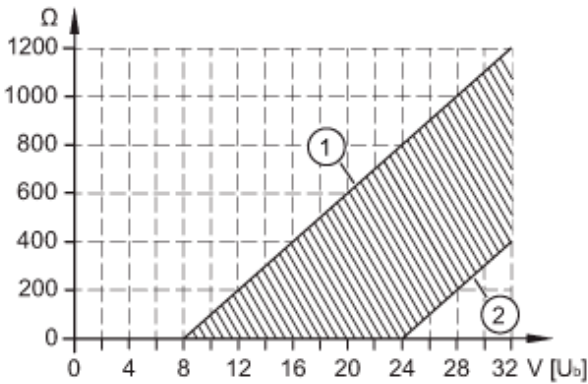
Connection



OUT analogue output
FE functional earth

Diagrams and graphs

characteristic load curve of current output



1: Max. load
2: min. load