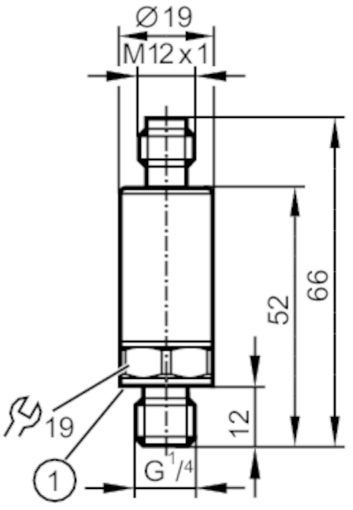
PU5412

Pressure transmitter

PU-160-SEG14-B-DVG/US/ /W



1 Sealing

Product characteristics				
Number of inputs and outputs		Number of analogue outputs: 1		
Measuring range		0...160 bar	0...2320 psi	0...16 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		1100 bar	15950 psi	110 MPa
Pressure rating		400 bar	5800 psi	40 Mpa
Note on pressure rating		static		
Vacuum resistance	[mbar]	-1000		
Type of pressure		relative pressure		
Electrical data				
Operating voltage	[V]	16...36 DC		
Current consumption	[mA]	< 12		
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 voltage output	[V]	0...10		

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Min. load resistance [Ω]	2000		
Short-circuit proof	yes		
Overload protection	yes		
Measuring/setting range			
Measuring range	0...160 bar	0...2320 psi	0...16 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]	762		
UL approval	UL Approval no.	J030	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		
Mechanical data			
Weight [g]	59.5		
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		

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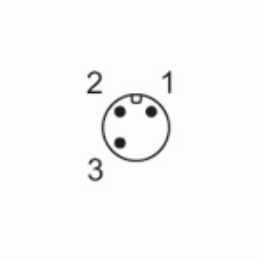
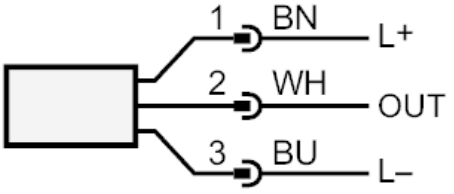
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



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