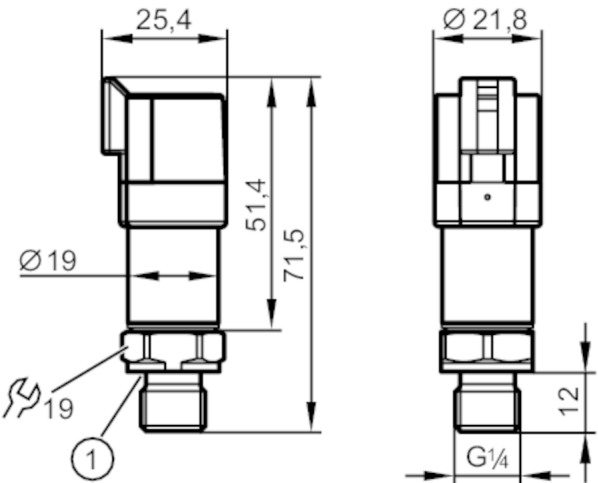


PU8701



Pressure transmitter

PU-250-SEG14-V-DVG/DE



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...250 bar	0...3625 psi	0...25 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		
Media	liquids and gases		
Medium temperature [°C]	-40...125		
Min. bursting pressure	1200 bar	17400 psi	120 MPa
Pressure rating	625 bar	9060 psi	62.5 MPa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
Vacuum resistance [MPa]	-0.1		
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	8...32 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
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Outputs

Total number of outputs	1
Output signal	analogue signal



Pressure transmitter

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Number of analogue outputs	1
Analogue voltage output [V]	0.5...4.5
Min. load resistance [Ω]	2000
Short-circuit proof	yes
Overload protection	yes

Measuring/setting range

Measuring range	0...250 bar	0...3625 psi	0...25 MPa
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Accuracy / deviations

Repeatability [% of the span]	$< \pm 0,05$; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the span]	$< \pm 0,8$; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation [% of the span]	$< \pm 0,25$ (BFSL) / $< \pm 0,5$ (LS)
Hysteresis deviation [% of the span]	$< \pm 0,2$
Long-term stability [% of the span]	$< \pm 0,1$; (per 6 months)
Temperature coefficient zero point [% of the span / 10 K]	$< \pm 0,1$ (0...80 °C); $< \pm 0,2$ (-40...0 °C / 80...125 °C)
Temperature coefficient span [% of the span / 10 K]	$< \pm 0,1$ (0...80 °C); $< \pm 0,2$ (-40...0 °C / 80...125 °C)

Response times

Step response time analogue output [ms]	2
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Operating conditions

Ambient temperature [°C]	-40...100
Storage temperature [°C]	-40...100
Protection	IP 67; IP 69K

Tests / approvals

EMC	compliant with UN ECE R10, rev. 5	
	ISO 11452-2	100 V/m
	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 [years]	658	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data

Weight [g]	62
Housing	cylindrical
Dimensions [mm]	$\varnothing 19$ / L = 71.5
Materials	stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PPS
Materials (wetted parts)	stainless steel (630/1.4542/17-4 PH); stainless steel (303/1.4305)
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)

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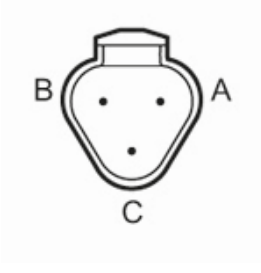
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)
Process connection sealing	HNBR (DIN EN ISO 1179-2)
Restrictor element integrated	yes

Remarks

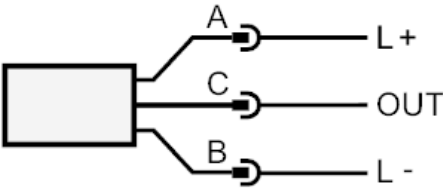
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x DEUTSCH connector (DT04-3P); Maximum cable length: 30 m



Connection



OUT analogue output