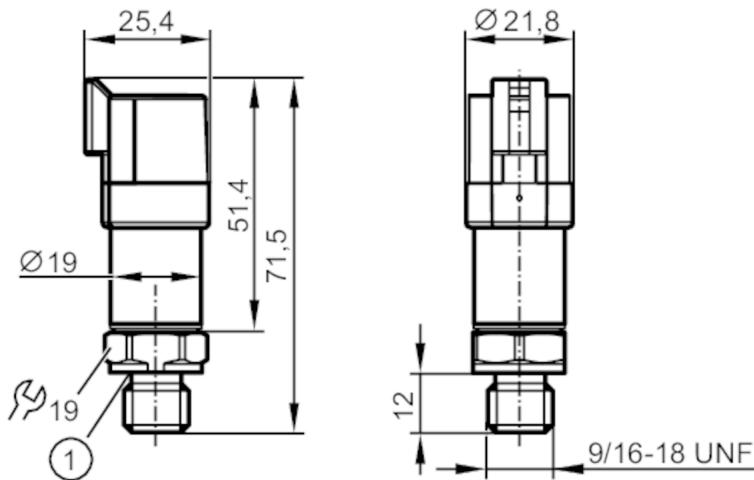


PU1743

Pressure transmitter

PU-050PSEU96-V-DVG/DE



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1
Measuring range	[psi] 0...500
Process connection	threaded connection 9/16" - 18 UNF external thread

Application

Application	for mobile applications
Media	liquids and gases
Medium temperature	[°C] -40...125
Min. bursting pressure	[psi] 11600
Pressure rating	[psi] 1450
Note on pressure rating	static
Vacuum resistance	[psi] -14.5
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 analog outputs: 1
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Pressure transmitter

PU-050PSEU96-V-DVG/DE

Outputs		
Total number of outputs		1
Output signal		analog signal
Number of analog outputs		1
Analog voltage output [V]		0.5...4.5
Min. load resistance [Ω]		2000
Short-circuit proof		yes
Overload protection		yes
Measuring/setting range		
Measuring range [psi]		0...500
Accuracy / deviations		
Repeatability [% of the span]		< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the span]		< ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation [% of the span]		< ± 0,25 (BFSL) / < ± 0,5 (LS)
Hysteresis deviation [% of the span]		< ± 0,2
Long-term stability [% of the span]		< ± 0,1; (per 6 months)
Temperature coefficient zero point [% of the span / 10 K]		< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)
Temperature coefficient span [% of the span / 10 K]		< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)
Reaction times		
Step response time analog output [ms]		2
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 DIN EN 61326-1	100 V/m
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	

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Pressure transmitter

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Mechanical data

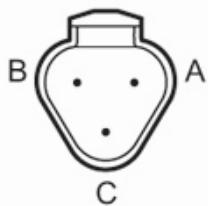
Weight	[g]	61
Material		1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PPS
Materials (wetted parts)		1.4542 (17-4 PH / 630)
Min. pressure cycles		60 million; (at 1.2 times nominal pressure)
Tightening torque	[Nm]	25...35; (recommended tightening torque; Depends on lubrication, seal and pressure rating)
Process connection		threaded connection 9/16" - 18 UNF external thread
Process connection sealing		HNBR (DIN EN ISO 1179-2)
Restrictor element integrated		yes

Remarks

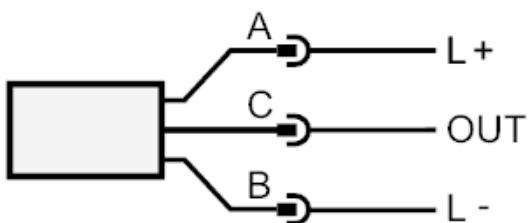
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

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



Connection



OUT analog output