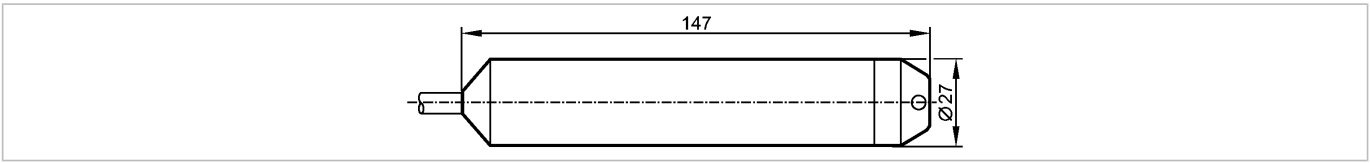




PS317A

SUBMERSIBLE 1BAR 15M FEP CABLE 1G/1D

Pressure sensors



Product characteristics

Submersible pressure transmitter
Cable
ATEX approval
Group II, category 1D/1G
Analog output
Measuring range: 0...1 bar

Application

Application	Type of pressure: relative pressure Liquids
Pressure rating [bar]	5
Bursting pressure min. [bar]	6
Medium temperature [°C]	T6: -10...60 / T5: -10...80 / T4: -10...85; 1 D, 1/2 D, 2 D: -10...40 (750 mW) / -10...70 (650 mW) / -10...85 (550 mW)

Electrical data

Electrical design	Connection to intrinsically safe supply isolators (Ex ia)
Operating voltage [V]	10...30 DC
Protection class	III
Reverse polarity protection	yes

Outputs

Output	Analog output
Output function	4...20 mA analog
Short-circuit protection	yes
Analog output	4...20 mA
Max. load [Ω]	max. (U _b - 10 V) x 50; 700 (U _b = 24 V)

Measuring / setting range

Measuring range [bar]	0...1
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Accuracy / deviations

Accuracy / deviations (in % of the span)	
Characteristics deviation *)	< 0.25 (BFSL) / 0.5 ****)
Linearity	< 0.2 (BFSL)
Repeatability **)	< 0.1
Long-term stability ***)	< 0.2
Temperature coefficients (TEMPCO) in the temperature range 0...50° C (in % of the span per 10 K)	
Greatest TEMPCO of the zero point	< ± 0.2
Greatest TEMPCO of the span	< ± 0.2

Environment

Ambient temperature [°C]	T6: -10...60 / T5: -10...80 / T4: -10...85; 1 D, 1/2 D, 2 D: -10...40 (750 mW) / -10...70 (650 mW) / -10...85 (550 mW)
Storage temperature [°C]	-10...60



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Protection	IP 68
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Tests / approvals

Approval	BVS 10 ATEX E 132 X IECEX BVS 10.0085 X
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Marking of the unit	<p>⊕ I M1 Ex ia I Ma</p> <p>⊕ II 1 G Ex ia IIA T4/T5/T6 Ga</p> <p>⊕ II 1/2G Ex ia IIC T4/T5/T6 Ga/Gb</p> <p>⊕ II 2 G Ex ia IIC T4/T5/T6 Gb</p> <p>⊕ II 1D Ex ia IIIC T120°C Da</p>
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MTTF [Years]	969
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Mechanical data

Housing materials	stainless steel 316Ti / 1.4571
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Min. pressure cycles	
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Weight [kg]	1.425
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Electrical connection

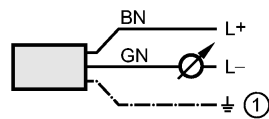
Connection	FEP cable / 15 m; cable diameter 7.5 mm
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Wiring

Core colors

BN brown

GN green



1: screen (connected to the housing)

Remarks

Remarks	<p>*) BFSL = Best Fit Straight Line</p> <p>**) with temperature fluctuations < 10 K</p> <p>***) in % of the span per year</p> <p>****) incl. linearity, zero and span error (limit value setting)</p>
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Pack quantity [piece]	1
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