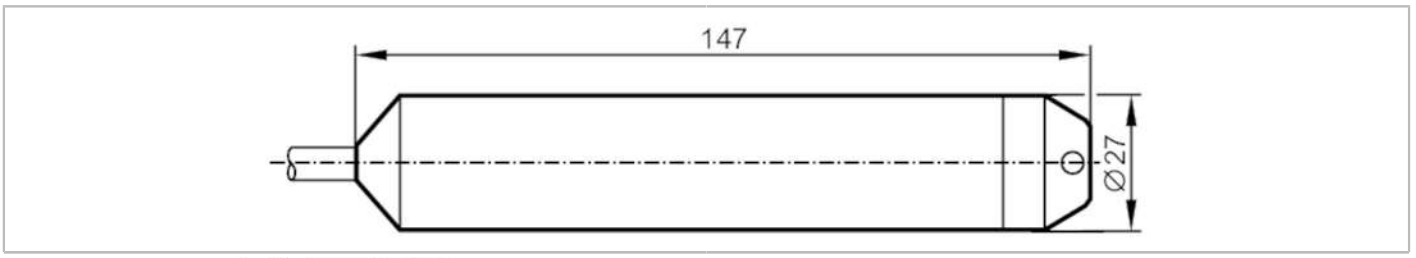
PS317A

Hydrostatic submersible pressure transmitter

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



Product characteristics					
Number of inputs and outputs	Number of analogue outputs: 1				
Measuring range	0...1 bar	0...1000 mbar	0...14.5 psi	0...401.5 inH2O	0...100 kPa
Application					
Application	for industrial applications				
Media	Liquids				
Medium temperature [°C]	-10...60; (T6: -10...60 °C; T5: -10...80 °C; T4: -10...85 °C; 1 D, 1/2 D, 2 D (750 mW): -10...40 °C; (650 mW): -10...70 °C; (550 mW): -10...85 °C)				
Min. bursting pressure	6 bar	87 psi	600 kPa		
Pressure rating	5 bar	72.5 psi	500 kPa		
Type of pressure	relative pressure				
Electrical data					
Switching amplifiers	connection to intrinsically safe supply isolators (Ex ia)				
Operating voltage [V]	10...30 DC				
Protection class	III				
Reverse polarity protection	yes				
Measuring principle	hydrostatic				
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 current output [mA]	4...20				
Max. load [Ω]	700; (Ub = 24 V; (Ub - 10 V) / 20 mA)				
Short-circuit protection	yes				
Measuring/setting range					
Measuring range	0...1 bar	0...1000 mbar	0...14.5 psi	0...401.5 inH2O	0...100 kPa
Accuracy / deviations					
Repeatability [% of the span]	< 0,1; (with temperature fluctuations < 10 K)				
Characteristics deviation [% of the span]	< 0,25 (BFSL) / 0,5; (incl. linearity, zero and span error (limit value setting); BFSL = Best Fit Straight Line)				
Linearity deviation [% of the span]	< 0,2 (BFSL)				
Long-term stability [% of the span]	< 0,2; (per year)				

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Temperature coefficient zero point [% of the span / 10 K]		< ± 0,2; (0...50 °C)
Temperature coefficient span [% of the span / 10 K]		< ± 0,2; (0...50 °C)
Operating conditions		
Ambient temperature	[°C]	-10...60
Note on ambient temperature		T6: -10...60 °C
		T5: -10...80 °C
		T4: -10...85 °C
		1 D, 1/2 D, 2 D (750 mW): -10...40 °C
		1 D, 1/2 D, 2 D (650 mW): -10...70 °C
		1 D, 1/2 D, 2 D (550 mW): -10...85 °C
Storage temperature	[°C]	-10...60
Protection		IP 68
Tests / approvals		
Approval		BVS 10 ATEX E 132 X; IECEx BVS 10.0085 X
ATEX marking		I M1 Ex ia I Ma
		II 1 G Ex ia IIA T4/T5/T6 Ga
		II 1/2G Ex ia IIC T4/T5/T6 Ga/Gb
		II 2 G Ex ia IIC T4/T5/T6 Gb
		II 1D Ex ia IIIC T120°C Da
MTTF	[years]	969
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	1431.8
Housing		cylindrical
Dimensions	[mm]	Ø 27 / L = 147
Materials		stainless steel (316Ti/1.4571)
Remarks		
Pack quantity		1 pcs.

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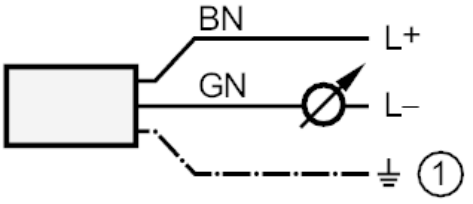
Electrical connection

Cable: 15 m, FEP, Ø 7.5 mm

Connection



1:	screen (connected to the housing)
	Core colours :
BN =	brown
GN =	green