

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 inH ₂ O	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
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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; (U _b = 24 V; (U _b - 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 inH ₂ O	0...100 kPa
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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	Ex I M1 Ex ia I Ma
	Ex II 1 G Ex ia IIA T4/T5/T6 Ga
	Ex II 1/2G Ex ia IIC T4/T5/T6 Ga/Gb
	Ex II 2 G Ex ia IIC T4/T5/T6 Gb
	Ex 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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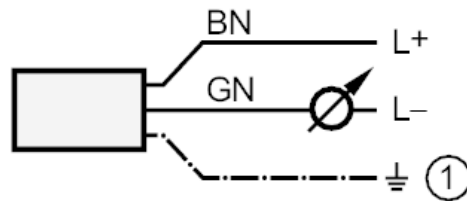
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Electrical connection

Cable: 15 m, FEP, Ø 7.5 mm

Connection



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