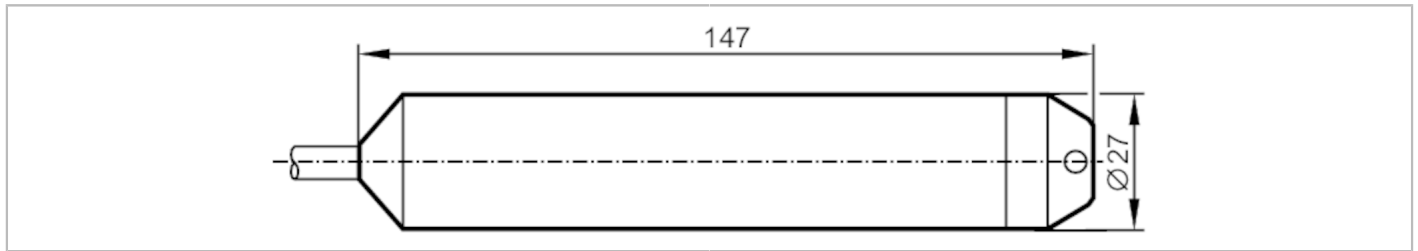


PS317A



Hydrostatic submersible pressure transmitter

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



| Product characteristics | | | | | |
|---|--|---------------|--------------|-----------------|-------------|
| Number of inputs and outputs | Number of analog 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 analog outputs: 1 | | | | |
| Outputs | | | | | |
| Total number of outputs | 1 | | | | |
| Output signal | analog signal | | | | |
| Number of analog outputs | 1 | | | | |
| Analog 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 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 | 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 |
| Material | stainless steel (1.4571/316Ti) |

Remarks

| | |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

PS317A



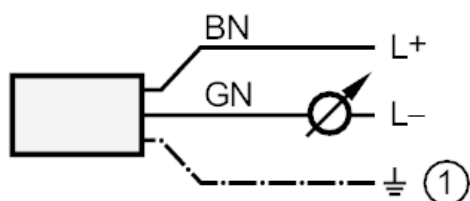
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Electrical connection

Cable: 15 m, FEP, Ø 7.5 mm

Connection



1: screen (connected to the housing)

Core colors :

BN = brown

GN = green