

# PS308A



## Hydrostatic submersible pressure transmitter

SUBMERSIBLE 0,25BAR 5M FEP CABLE 1G/1D



### Product characteristics

|                              |                             |              |              |                              |            |
|------------------------------|-----------------------------|--------------|--------------|------------------------------|------------|
| Number of inputs and outputs | Number of analog outputs: 1 |              |              |                              |            |
| Measuring range              | 0...0.25 bar                | 0...250 mbar | 0...3.63 psi | 0...100.4 inH <sub>2</sub> O | 0...25 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. burst pressure     | 2.4 bar                                                                                                                                            | 35 psi | 240 kPa |
| Pressure rating         | 2 bar                                                                                                                                              | 29 psi | 200 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                                                       |  |  |  |

### 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 <sub>b</sub> = 24 V; (U <sub>b</sub> - 10 V) / 20 mA) |  |  |  |
| Short-circuit protection   | yes                                                           |  |  |  |

### Measuring/setting range

|                 |              |              |              |                              |            |
|-----------------|--------------|--------------|--------------|------------------------------|------------|
| Measuring range | 0...0.25 bar | 0...250 mbar | 0...3.63 psi | 0...100.4 inH <sub>2</sub> O | 0...25 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<br>[% of the span / 10 K] | < ± 0,2; (0...50 °C)                                                                  |
| Temperature coefficient span<br>[% of the span / 10 K]       | < ± 0,2; (0...50 °C)                                                                  |
| <b>Operating conditions</b>                                  |                                                                                       |
| 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                                                                                 |
| <b>Tests / approvals</b>                                     |                                                                                       |
| 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 T135°C Da                                                         |
| MTTF [years]                                                 | 969                                                                                   |
| Pressure equipment directive                                 | sound engineering practice; can be used for group 2 fluids; group 1 fluids on request |
| <b>Mechanical data</b>                                       |                                                                                       |
| Weight [g]                                                   | 660.2                                                                                 |
| Housing                                                      | tubular                                                                               |
| Dimensions [mm]                                              | Ø 27 / L = 147                                                                        |
| Material                                                     | stainless steel (1.4571/316Ti )                                                       |
| <b>Remarks</b>                                               |                                                                                       |
| Pack quantity                                                | 1 pcs.                                                                                |

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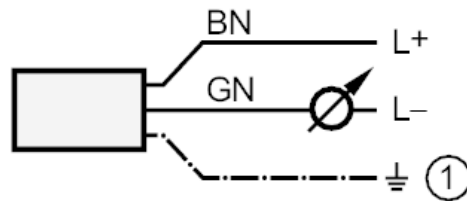
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### Electrical connection

Cable: 5 m, FEP, Ø 7.5 mm

### Connection



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