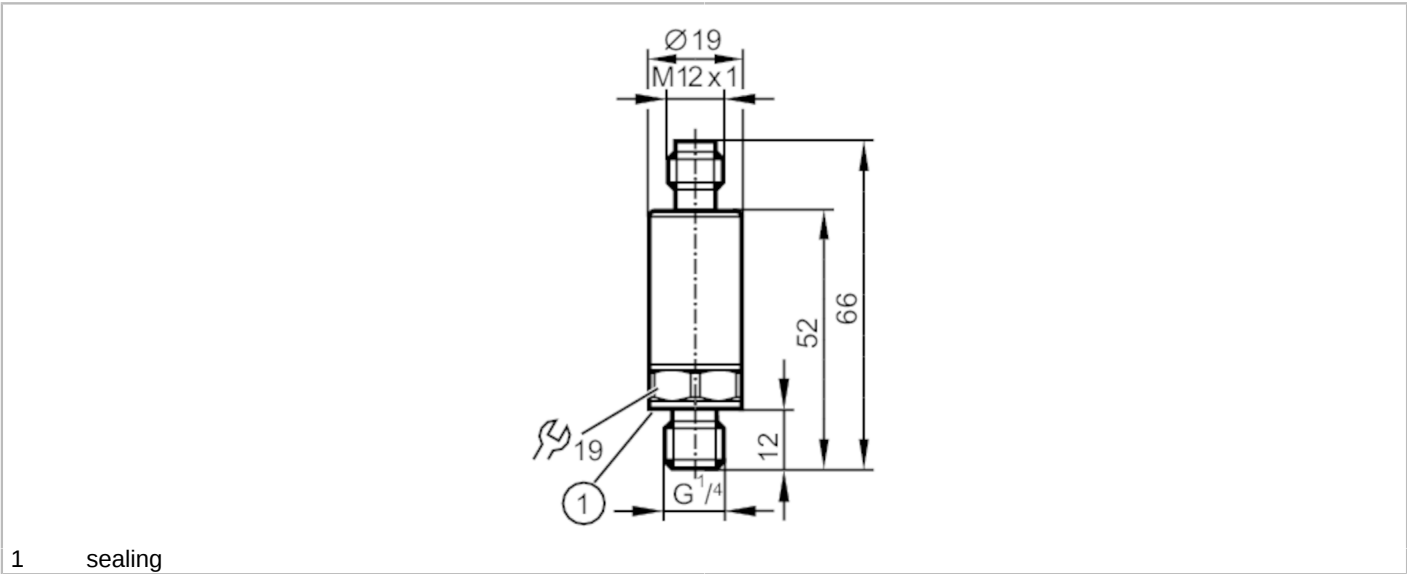


PT5504



Pressure transmitter

PT-010-SEG14-A-ZVG/US



Product characteristics

|                              |                                                               |             |              |           |
|------------------------------|---------------------------------------------------------------|-------------|--------------|-----------|
| Number of inputs and outputs | Number of analog outputs: 1                                   |             |              |           |
| Measuring range              | 0...10 bar                                                    | 0...145 psi | 0...1000 kPa | 0...1 MPa |
| Process connection           | threaded connection G 1/4 external thread (DIN EN ISO 1179-2) |             |              |           |

Application

|                         |                         |          |         |
|-------------------------|-------------------------|----------|---------|
| Application             | for mobile applications |          |         |
| Media                   | liquids and gases       |          |         |
| Medium temperature [°C] | -40...125               |          |         |
| Min. burst pressure     | 300 bar                 | 4350 psi | 30 MPa  |
| Pressure rating         | 25 bar                  | 360 psi  | 2.5 MPa |
| Note on pressure rating | static                  |          |         |
| Vacuum resistance       | -1000 mbar              | -0.1 MPa |         |
| Type of pressure        | relative pressure       |          |         |

Electrical data

|                                 |                 |
|---------------------------------|-----------------|
| Operating voltage [V]           | 8...32 DC       |
| Min. insulation resistance [MΩ] | 100; (500 V DC) |
| Protection class                | III             |
| Reverse polarity protection     | yes             |
| Power-on delay time [s]         | < 0.1           |

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]              | (U <sub>b</sub> - 8 V) / 21,5 mA; @8V = 0 Ω; @12V max. 200 Ω; @24V max. 750 Ω |
| Short-circuit proof        | yes                                                                           |

# PT5504



## Pressure transmitter

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|                                                           |  |                                                                                                 |             |                     |           |
|-----------------------------------------------------------|--|-------------------------------------------------------------------------------------------------|-------------|---------------------|-----------|
| Overload protection                                       |  | yes                                                                                             |             |                     |           |
| Measuring/setting range                                   |  |                                                                                                 |             |                     |           |
| Measuring range                                           |  | 0...10 bar                                                                                      | 0...145 psi | 0...1000 kPa        | 0...1 MPa |
| Accuracy / deviations                                     |  |                                                                                                 |             |                     |           |
| Repeatability [% of the span]                             |  | < ± 0,05; (with temperature fluctuations < 10 K)                                                |             |                     |           |
| Characteristics deviation [% of the span]                 |  | < ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis) |             |                     |           |
| Linearity deviation [% of the span]                       |  | < ± 0,25 (BFSL) / < ± 0,5 (LS)                                                                  |             |                     |           |
| Hysteresis deviation [% of the span]                      |  | < ± 0,2                                                                                         |             |                     |           |
| Long-term stability [% of the span]                       |  | < ± 0,1; (per 6 months)                                                                         |             |                     |           |
| Temperature coefficient zero point [% of the span / 10 K] |  | < ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)                                         |             |                     |           |
| Temperature coefficient span [% of the span / 10 K]       |  | < ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)                                         |             |                     |           |
| Reaction times                                            |  |                                                                                                 |             |                     |           |
| Step response time analog output [ms]                     |  | 2                                                                                               |             |                     |           |
| Operating conditions                                      |  |                                                                                                 |             |                     |           |
| Ambient temperature [°C]                                  |  | -40...100                                                                                       |             |                     |           |
| Storage temperature [°C]                                  |  | -40...100                                                                                       |             |                     |           |
| Protection                                                |  | IP 67; IP 69K                                                                                   |             |                     |           |
| Tests / approvals                                         |  |                                                                                                 |             |                     |           |
| EMC                                                       |  | compliant with UN ECE R10, rev. 5                                                               |             | (E1 compliant)      |           |
|                                                           |  | ISO 11452-2                                                                                     |             | 100 V/m             |           |
|                                                           |  | DIN EN 61326-1                                                                                  |             |                     |           |
| Shock resistance                                          |  | DIN EN 60068-2-27                                                                               |             | 500 g (1 ms)        |           |
| Vibration resistance                                      |  | DIN EN 60068-2-6                                                                                |             | 20 g (10...2000 Hz) |           |
| MTTF [years]                                              |  | 711                                                                                             |             |                     |           |
| UL approval                                               |  | UL approval number                                                                              |             | J070                |           |
|                                                           |  | File number UL                                                                                  |             | E174189             |           |
| Pressure equipment directive                              |  | sound engineering practice; can be used for group 2 fluids; group 1 fluids on request           |             |                     |           |
| Mechanical data                                           |  |                                                                                                 |             |                     |           |
| Weight [g]                                                |  | 58.5                                                                                            |             |                     |           |
| Housing                                                   |  | tubular                                                                                         |             |                     |           |
| Dimensions [mm]                                           |  | Ø 19 / L = 66                                                                                   |             |                     |           |
| Material                                                  |  | stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); PEI                      |             |                     |           |
| Materials (wetted parts)                                  |  | stainless steel (630/1.4542/17-4 PH)                                                            |             |                     |           |
| Min. pressure cycles                                      |  | 60 million; (at 1.2 times nominal pressure)                                                     |             |                     |           |
| Tightening torque [Nm]                                    |  | 25...35; (recommended tightening torque; Depends on lubrication, seal and pressure rating)      |             |                     |           |
| Process connection                                        |  | threaded connection G 1/4 external thread (DIN EN ISO 1179-2)                                   |             |                     |           |
| Process connection sealing                                |  | HNBR (DIN EN ISO 1179-2)                                                                        |             |                     |           |

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|                               |     |
|-------------------------------|-----|
| Restrictor element integrated | yes |
|-------------------------------|-----|

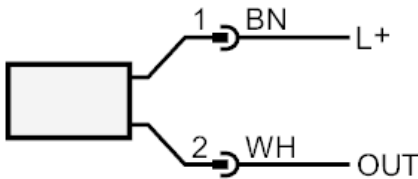
| Remarks       |                                                           |
|---------------|-----------------------------------------------------------|
| Remarks       | BFSL = Best Fit Straight Line<br>LS = limit value setting |
| Pack quantity | 1 pcs.                                                    |

Electrical connection

Connector: 1 x M12; coding: A



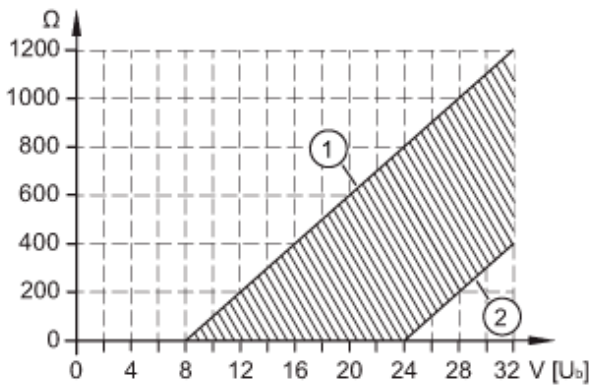
Connection



OUT                    analog output  
Colors to DIN EN 60947-5-2  
Core colors :  
BN =                brown  
WH =                white

Diagrams and graphs

Characteristic load curve current output



1:    Max. load  
2:    Min. load