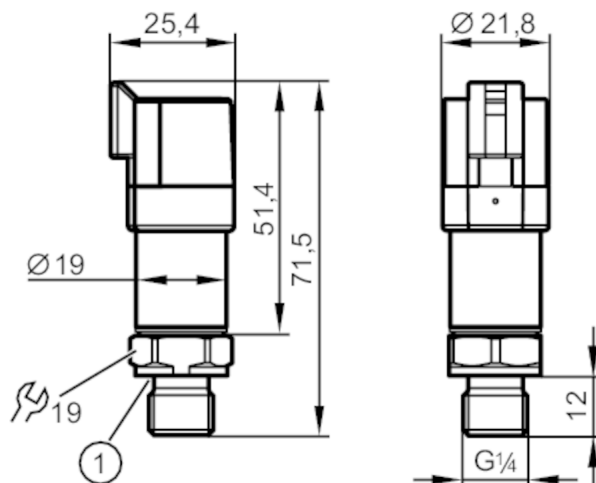




## Pressure transmitter

PT-010-SEG14-A-ZVG/DE



1 Sealing



## Product characteristics

|                              |                                                               |             |              |           |
|------------------------------|---------------------------------------------------------------|-------------|--------------|-----------|
| Number of inputs and outputs | Number of analogue 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. bursting 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 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]                | ( $U_b - 8\text{ V}$ ) / 21,5 mA; @8V = 0 Ω; @12V max. 200 Ω; @24V max. 750 Ω |
| Short-circuit proof          | yes                                                                           |

# PT5704



## Pressure transmitter

PT-010-SEG14-A-ZVG/DE

|                                                           |                                                                                                 |                     |              |           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------|--------------|-----------|
| 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)                                         |                     |              |           |
| Response times                                            |                                                                                                 |                     |              |           |
| Step response time analogue 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]                                              | 700                                                                                             |                     |              |           |
| Pressure Equipment Directive                              | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request           |                     |              |           |
| Mechanical data                                           |                                                                                                 |                     |              |           |
| Weight [g]                                                | 61.5                                                                                            |                     |              |           |
| Housing                                                   | cylindrical                                                                                     |                     |              |           |
| Dimensions [mm]                                           | Ø 19 / L = 71.5                                                                                 |                     |              |           |
| Materials                                                 | stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PPS                        |                     |              |           |
| 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)                                                                        |                     |              |           |
| Restrictor element integrated                             | yes                                                                                             |                     |              |           |



Pressure transmitter

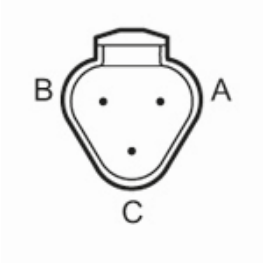
PT-010-SEG14-A-ZVG/DE

Remarks

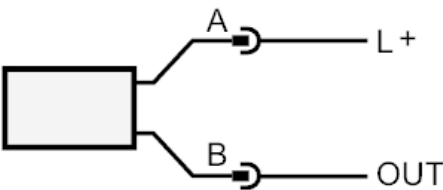
|               |                                                           |
|---------------|-----------------------------------------------------------|
| Remarks       | BFSL = Best Fit Straight Line<br>LS = limit value setting |
| Pack quantity | 1 pcs.                                          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

Electrical connection

Connector: 1 x DEUTSCH connector (DT04-3P)



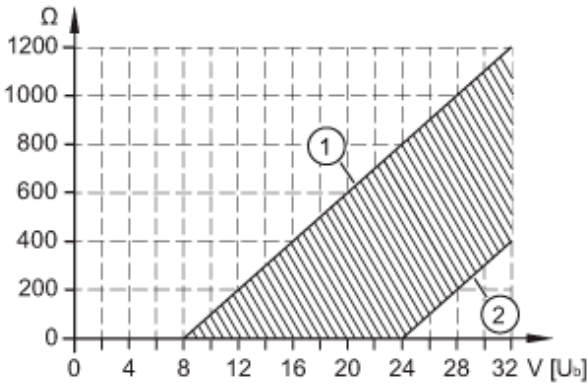
Connection



OUT                      analogue output

Diagrams and graphs

characteristic load curve of current output



- 1: Max. load
- 2: min. load