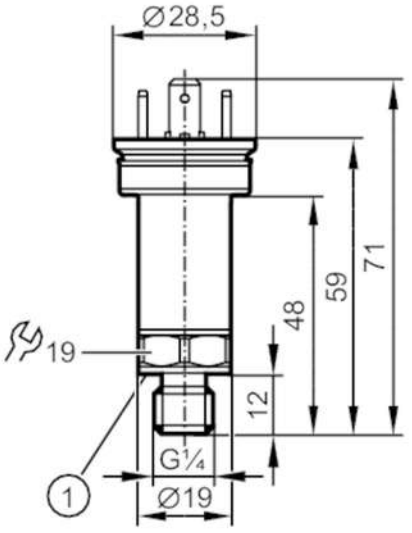
# PT5023

## Pressure transmitter

PT-060-SEG14-A-ZVG/VE




1 Sealing

| | | | |
|---|---|---|---|
| **Product characteristics** | | | |
| Number of inputs and outputs | Number of analogue outputs: 1 | | |
| Measuring range | 0...60 bar | 0...870 psi | 0...6 MPa |
| Process connection | threaded connection G 1/4 external thread (DIN EN ISO 1179-2) | | |
| **Application** | | | |
| Measuring element | metallic thin film cell | | |
| Application | for mobile applications; for industrial applications | | |
| Media | liquids and gases | | |
| Medium temperature [°C] | -40...125 | | |
| Min. bursting pressure | 900 bar | 13050 psi | 90 MPa |
| Pressure rating | 150 bar | 2175 psi | 15 MPa |
| Note on pressure rating | static | | |
| Vacuum resistance | -1000 mbar | -0.1 MPa | |
| Type of pressure | relative pressure | | |
| **Electrical data** | | | |
| Operating voltage [V] | 8...36 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 | | |

# PT5023

## Pressure transmitter

PT-060-SEG14-A-ZVG/VE

| | | | | |
|---|---|---|---|---|
| Analogue current output | [mA] | 4...20 | | |
| Max. load | [Ω] | (Ub - 8 V) / 21,5 mA ; @8V= 0 Ω ; @12V max. 200 Ω: @24V max. 750 Ω | | |
| Short-circuit proof | | yes | | |
| Overload protection | | yes | | |
| **Measuring/setting range** | | | | |
| Measuring range | | 0...60 bar | 0...870 psi | 0...6 MPa |
| **Accuracy / deviations** | | | | |
| Repeatability | [% of the span] | < ± 0,05; (with temperature fluctuations < 10 K) | | |
| Characteristics deviation | [% of the span] | < ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis) | | |
| Linearity deviation | [% of the span] | < ± 0,1 (BFSL) / < ± 0,2 (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 | | |
| **Tests / approvals** | | | | |
| EMC | | Compliant with ECE R 10, rev. 5 | (E1 compliant) | |
| | | DIN EN ISO 13766-1 : 2018 | earthworks and construction machines | |
| | | DIN EN ISO 14982 : 2009 | agricultural and forestry machines | |
| | | ISO 11452-2 | 100 V/m | |
| | | ISO 7637-2 : 2011 pulse 1 | Test severity III. function state C | |
| | | ISO 7637-2 : 2011 pulse 2b | test severity IV. function state C | |
| | | 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] | 715 | | |
| UL approval | | UL Approval no. | J032 | |
| | | 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] | 67 | | |
| Housing | | cylindrical | | |
| Dimensions | [mm] | Ø 19 / L = 71 | | |

# PT5023

## Pressure transmitter

PT-060-SEG14-A-ZVG/VE

| | | |
|---|---|---|
| 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); stainless steel (303/1.4305) |
| 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 | | FKM (DIN EN ISO 1179-2) |
| Restrictor element integrated | | yes |

## Remarks

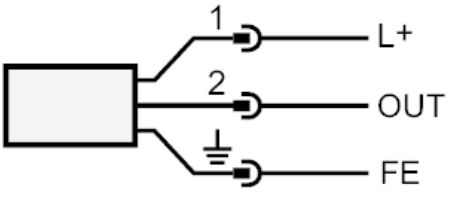
| | |
|---|---|
| Remarks | BFSL = Best Fit Straight Line |
| | LS = limit value setting |
| Pack quantity | 1 pcs. |

## Electrical connection

Connector: 1 x valve plug type A DIN (EN175301-803-A)




### Connection




| | |
|---|---|
| OUT | analogue output |
| FE | functional earth |

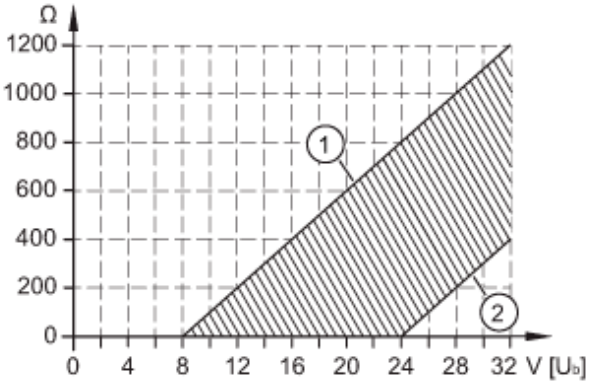
# PT5023

## Pressure transmitter

PT-060-SEG14-A-ZVG/VE

## Diagrams and graphs

characteristic load curve of current output




1: Max. load

2: min. load