

PA3522



Pressure transmitter with ceramic measuring cell

PA-100-SBG14-A-ZVG/US/ IV



1 Sealing



| Product characteristics      |                                                                                   |                 |            |
|------------------------------|-----------------------------------------------------------------------------------|-----------------|------------|
| Number of inputs and outputs | Number of analogue outputs: 1                                                     |                 |            |
| Measuring range              | 0...100 bar                                                                       | 0...1450 psi    | 0...10 MPa |
| Process connection           | threaded connection G 1/4 external thread (DIN EN ISO 1179-2); internal thread:M5 |                 |            |
| Application                  |                                                                                   |                 |            |
| Special feature              | Gold-plated contacts                                                              |                 |            |
| Application                  | for industrial applications                                                       |                 |            |
| Media                        | Liquids                                                                           |                 |            |
| Conditionally suitable for   | use in gases at pressures > 25 bar only on request                                |                 |            |
| Medium temperature           | [°C] -25...90; (on request: -40...90 °C)                                          |                 |            |
| Min. bursting pressure       | 650 bar                                                                           | 9425 psi        | 65 MPa     |
| Pressure rating              | 300 bar                                                                           | 4350 psi        | 30 MPa     |
| Type of pressure             | relative pressure                                                                 |                 |            |
| Electrical data              |                                                                                   |                 |            |
| Operating voltage            | [V]                                                                               | 9.6...32 DC     |            |
| Min. insulation resistance   | [MΩ]                                                                              | 100; (500 V DC) |            |
| Protection class             |                                                                                   | III             |            |
| Reverse polarity protection  |                                                                                   | yes             |            |
| 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                                                                                 |                 |            |



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|                                    |                                                                                       |                                                                                            |
|------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Analogue current output            | [mA]                                                                                  | 4...20                                                                                     |
| Max. load                          | [Ω]                                                                                   | 720; (U <sub>b</sub> = 24 V; (U <sub>b</sub> - 9,6 V) / 20 mA)                             |
| Overload protection                |                                                                                       | yes                                                                                        |
| <b>Measuring/setting range</b>     |                                                                                       |                                                                                            |
| Measuring range                    | 0...100 bar                                                                           | 0...1450 psi                                                                               |
|                                    |                                                                                       | 0...10 MPa                                                                                 |
| <b>Accuracy / deviations</b>       |                                                                                       |                                                                                            |
| Repeatability                      | [X21]                                                                                 | < 0,1; (with temperature fluctuations < 10 K)                                              |
| Characteristics deviation          | [X21]                                                                                 | < ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)  |
| Long-term stability                | [X21]                                                                                 | < ± 0,05; (per 6 months)                                                                   |
| Temperature coefficient zero point | [X22]                                                                                 | < ± 0,1; (0...80 °C)                                                                       |
| Temperature coefficient span       | [X22]                                                                                 | < ± 0,2; (0...80 °C)                                                                       |
| <b>Response times</b>              |                                                                                       |                                                                                            |
| Step response time analogue output | [ms]                                                                                  | 3                                                                                          |
| <b>Operating conditions</b>        |                                                                                       |                                                                                            |
| Ambient temperature                | [°C]                                                                                  | -25...80                                                                                   |
| Storage temperature                | [°C]                                                                                  | -40...100                                                                                  |
| Protection                         |                                                                                       | IP 68; IP 69K                                                                              |
| <b>Tests / approvals</b>           |                                                                                       |                                                                                            |
| EMC                                | EN 61000-4-2 ESD                                                                      | 4 kV CD / 8 kV AD                                                                          |
|                                    | EN 61000-4-3 HF radiated                                                              | 30 V/m                                                                                     |
|                                    | EN 61000-4-4 Burst                                                                    | 2 kV                                                                                       |
|                                    | EN 61000-4-6 HF conducted                                                             | 10 V                                                                                       |
|                                    | radiation of interference                                                             | according to the automotive directive 2004/104/EC                                          |
|                                    | CISPR 25                                                                              |                                                                                            |
|                                    | immunity                                                                              | according to the automotive directive 2004/104/EC                                          |
|                                    | ISO 11452-2 HF radiated                                                               | 100 V/m                                                                                    |
| Shock resistance                   | ISO 7637-2 pulse                                                                      | severity level 4                                                                           |
|                                    | DIN EN 60068-2-27                                                                     | 50 g (11 ms)                                                                               |
|                                    | DIN EN 61373                                                                          | category 3                                                                                 |
| Vibration resistance               | DIN EN 60068-2-6                                                                      | 20 g (10...2000 Hz)                                                                        |
|                                    | DIN EN 61373                                                                          | category 2                                                                                 |
| MTTF                               | [ANN]                                                                                 | 507                                                                                        |
| Pressure Equipment Directive       | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request |                                                                                            |
| Railway applications               | DIN EN 50155 / IEC 60571                                                              | Klasse T3, C1, S1                                                                          |
| <b>Mechanical data</b>             |                                                                                       |                                                                                            |
| Weight                             | [g]                                                                                   | 217.5                                                                                      |
| Materials                          | stainless steel (1.4404 / 316L); FKM; PA; EPDM/X                                      |                                                                                            |
| Materials (wetted parts)           | stainless steel (1.4305 / 303); ceramics; Sealing: FKM                                |                                                                                            |
| Min. pressure cycles               | 100 million                                                                           |                                                                                            |
| 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); internal thread:M5     |                                                                                            |
| Restrictor element integrated      | no (can be retrofitted)                                                               |                                                                                            |

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### Remarks

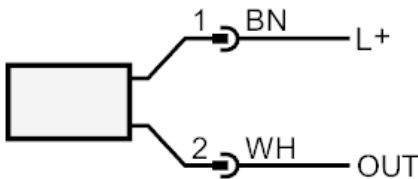
|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



### Connection



|      |                                                                  |
|------|------------------------------------------------------------------|
| OUT  | analogue output<br>colours to DIN EN 60947-5-2<br>Core colours : |
| BN = | brown                                                            |
| WH = | white                                                            |