

PA3589



Pressure transmitter with ceramic measuring cell

PA-,10BRBG14-A-ZVG/US/ IV



1 Sealing



| Product characteristics      |                                                                                   |                 |                 |            |
|------------------------------|-----------------------------------------------------------------------------------|-----------------|-----------------|------------|
| Number of inputs and outputs | Number of analogue outputs: 1                                                     |                 |                 |            |
| Measuring range              | 0...0.1 bar                                                                       | 0...100 mbar    | 0...40.16 inH2O | 0...10 kPa |
| 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 and gases                                                                 |                 |                 |            |
| Medium temperature           | [°C] -25...90; (on request: -40...90 °C)                                          |                 |                 |            |
| Min. bursting pressure       | 30000 mbar                                                                        | 12030 inH2O     | 3000 kPa        |            |
| Pressure rating              | 4000 mbar                                                                         | 1606 inH2O      | 400 kPa         |            |
| 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                                                                                 |                 |                 |            |
| Analogue current output      | [mA]                                                                              | 4...20          |                 |            |



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| Max. load                          | [Ω]                       | 720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)                                                     |              |                   |            |
| Overload protection                |                           | yes                                                                                        |              |                   |            |
| Measuring/setting range            |                           |                                                                                            |              |                   |            |
| Measuring range                    |                           | 0...0.1 bar                                                                                | 0...100 mbar | 0...40.16 inH2O   | 0...10 kPa |
| Accuracy / deviations              |                           |                                                                                            |              |                   |            |
| Repeatability                      | [X21]                     | < 0,2; (with temperature fluctuations < 10 K)                                              |              |                   |            |
| Characteristics deviation          | [X21]                     | < ± 0,5 (BFSL) / < ± 1 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)     |              |                   |            |
| Long-term stability                | [X21]                     | < ± 0,1; (per 6 months)                                                                    |              |                   |            |
| Temperature coefficient zero point | [X22]                     | < ± 0,5; (0...80 °C)                                                                       |              |                   |            |
| Temperature coefficient span       | [X22]                     | < ± 0,5; (0...80 °C)                                                                       |              |                   |            |
| Response times                     |                           |                                                                                            |              |                   |            |
| Step response time analogue output | [ms]                      | 3                                                                                          |              |                   |            |
| Operating conditions               |                           |                                                                                            |              |                   |            |
| Ambient temperature                | [°C]                      | -25...80                                                                                   |              |                   |            |
| Storage temperature                | [°C]                      | -40...100                                                                                  |              |                   |            |
| Protection                         |                           | IP 68; (7 days / 1 m water depth / 0.1 bar)                                                |              |                   |            |
| Tests / approvals                  |                           |                                                                                            |              |                   |            |
| 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)                                                                               |              |                   |            |
| Vibration resistance               | DIN EN 61373              | category 3                                                                                 |              |                   |            |
|                                    | DIN EN 60068-2-6          | 20 g (10...2000 Hz)                                                                        |              |                   |            |
| MTTF                               | DIN EN 61373              | category 2                                                                                 |              |                   |            |
|                                    | [ANN]                     | 555                                                                                        |              |                   |            |
| 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 |            |
| Mechanical data                    |                           |                                                                                            |              |                   |            |
| Weight                             | [g]                       | 215.5                                                                                      |              |                   |            |
| 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

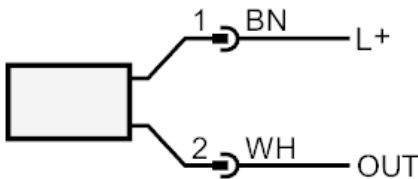
Pack quantity 1 pcs.

Electrical connection

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



Connection



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