

PA6229



Pressure transmitter with ceramic measuring cell

PA-0-1-RBN14-A-ZVG/US/ IV



| Product characteristics         |                                              |                |               |              |
|---------------------------------|----------------------------------------------|----------------|---------------|--------------|
| Number of inputs and outputs    | Number of analogue outputs: 1                |                |               |              |
| Measuring range                 | -1...0 bar                                   | -1000...0 mbar | -14.5...0 psi | -100...0 kPa |
| Process connection              | threaded connection 1/4" NPT internal thread |                |               |              |
| 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          | 30 bar                                       | 435 psi        | 3 MPa         |              |
| Pressure rating                 | 10 bar                                       | 145 psi        | 1 MPa         |              |
| Type of pressure                | relative pressure; vacuum                    |                |               |              |
| 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]    | 20...4                                       |                |               |              |



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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                    |                           | -1...0 bar                                                                                | -1000...0 mbar | -14.5...0 psi | -100...0 kPa |
| Accuracy / deviations              |                           |                                                                                           |                |               |              |
| 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)                                                                          |                |               |              |
| Response times                     |                           |                                                                                           |                |               |              |
| Step response time analogue output | [ms]                      | 3                                                                                         |                |               |              |
| Operating conditions               |                           |                                                                                           |                |               |              |
| Ambient temperature                | [°C]                      | -25...80                                                                                  |                |               |              |
| Storage temperature                | [°C]                      | -40...100                                                                                 |                |               |              |
| Protection                         |                           | IP 65                                                                                     |                |               |              |
| 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                                                                                   |                |               |              |
|                                    | pulse resistance          | ISO 7637-2 / severity level 3                                                             |                |               |              |
| Shock resistance                   | DIN IEC 68-2-27           | 50 g (11 ms)                                                                              |                |               |              |
| Vibration resistance               | DIN IEC 68-2-6            | 20 g (10...2000 Hz)                                                                       |                |               |              |
| MTTF                               | [ANN]                     | 506                                                                                       |                |               |              |
| Pressure Equipment Directive       |                           | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request     |                |               |              |
| Mechanical data                    |                           |                                                                                           |                |               |              |
| Weight                             | [g]                       | 221.5                                                                                     |                |               |              |
| Materials                          |                           | stainless steel (1.4404 / 316L); FKM; PA; EPDM/X                                          |                |               |              |
| Materials (wetted parts)           |                           | stainless steel (1.4305 / 303); ceramics; FKM                                             |                |               |              |
| Min. pressure cycles               |                           | 100 million                                                                               |                |               |              |
| Process connection                 |                           | threaded connection 1/4" NPT internal thread                                              |                |               |              |
| Restrictor element integrated      |                           | no (can be retrofitted)                                                                   |                |               |              |
| Remarks                            |                           |                                                                                           |                |               |              |
| Pack quantity                      |                           | 1 pcs.                                                                                    |                |               |              |

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### Electrical connection

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



### Connection

