

PX3223



Pressure transmitter with ceramic measuring cell

PA-050PRBN14-A-ZVG/US/ IV



1 ventilation



| Product characteristics         |                                                                 |              |
|---------------------------------|-----------------------------------------------------------------|--------------|
| Number of inputs and outputs    | Number of analog outputs: 1                                     |              |
| Measuring range                 | 0...500 psi                                                     | 0...3450 kPa |
| Process connection              | threaded connection 1/4" NPT external thread Internal thread:M5 |              |
| Application                     |                                                                 |              |
| System                          | gold-plated contacts                                            |              |
| Application                     | for industrial applications                                     |              |
| Media                           | liquids and gases                                               |              |
| Conditionally suitable for      | use in gases at pressures > 25 bar only on request              |              |
| Medium temperature [°C]         | -25...90                                                        |              |
| Min. bursting pressure          | 5075 psi                                                        | 35 MPa       |
| Pressure rating                 | 2175 psi                                                        | 15 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 analog outputs: 1                                     |              |
| Outputs                         |                                                                 |              |
| Total number of outputs         | 1                                                               |              |
| Output signal                   | analog signal                                                   |              |
| Number of analog outputs        | 1                                                               |              |



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|                                    |                           |                                                                                            |
|------------------------------------|---------------------------|--------------------------------------------------------------------------------------------|
| Analog 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...500 psi               | 0...3450 kPa                                                                               |
| <b>Accuracy / deviations</b>       |                           |                                                                                            |
| Repeatability                      | [% of the span]           | < 0,1; (with temperature fluctuations < 10 K)                                              |
| Characteristics deviation          | [% of the span]           | < ± 0,35 (BFSL) / < ± 0,75 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting) |
| Long-term stability                | [% of the span]           | < ± 0,05; (per 6 months)                                                                   |
| Temperature coefficient zero point | [% of the span / 10 K]    | 0,2; (0...80 °C)                                                                           |
| Temperature coefficient span       | [% of the span / 10 K]    | 0,3; (0...80 °C)                                                                           |
| <b>Reaction times</b>              |                           |                                                                                            |
| Step response time analog output   | [ms]                      | 3                                                                                          |
| <b>Operating conditions</b>        |                           |                                                                                            |
| Ambient temperature                | [°C]                      | -25...80                                                                                   |
| Storage temperature                | [°C]                      | -40...100                                                                                  |
| Protection                         |                           | IP 65                                                                                      |
| <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                               |
|                                    | noise 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                               | [years]                   | 555                                                                                        |
| Pressure equipment directive       |                           | sound engineering practice; can be used for group 2 fluids; group 1 fluids on request      |
| <b>Mechanical data</b>             |                           |                                                                                            |
| Weight                             | [g]                       | 213.5                                                                                      |
| Housing                            |                           | tubular                                                                                    |
| Dimensions                         | [mm]                      | Ø 30 / L = 79.5                                                                            |
| Material                           |                           | 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 external thread Internal thread:M5                            |

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|                               |                         |
|-------------------------------|-------------------------|
| Restrictor element integrated | no (can be retrofitted) |
|-------------------------------|-------------------------|

Remarks

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

Electrical connection

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



Connection

