

# PX9112



## Pressure transmitter with ceramic measuring cell

PA-100PSBN14-B-DVG/US/ IV



| Product characteristics         |                                                                 |
|---------------------------------|-----------------------------------------------------------------|
| Number of inputs and outputs    | Number of analogue outputs: 1                                   |
| Measuring range [psi]           | 0...1000                                                        |
| Process connection              | threaded connection 1/4" NPT external thread internal thread:M5 |
| Application                     |                                                                 |
| Special feature                 | 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 [psi]    | 9400                                                            |
| Pressure rating [psi]           | 4350                                                            |
| Type of pressure                | relative pressure                                               |
| Electrical data                 |                                                                 |
| Operating voltage [V]           | 16...32 DC                                                      |
| Current consumption [mA]        | < 18                                                            |
| 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                                                 |



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|                                                           |                                                                                                    |                                                                 |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Number of analogue outputs                                | 1                                                                                                  |                                                                 |
| Analogue voltage output [V]                               | 0...10                                                                                             |                                                                 |
| Min. load resistance [ $\Omega$ ]                         | 2000                                                                                               |                                                                 |
| Overload protection                                       | yes                                                                                                |                                                                 |
| Measuring/setting range                                   |                                                                                                    |                                                                 |
| Measuring range [psi]                                     | 0...1000                                                                                           |                                                                 |
| Accuracy / deviations                                     |                                                                                                    |                                                                 |
| Repeatability [% of the span]                             | < 0,15; (with temperature fluctuations < 10 K)                                                     |                                                                 |
| Characteristics deviation [% of the span]                 | < $\pm$ 0,35 (BFSL) / < $\pm$ 0,75 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting) |                                                                 |
| Long-term stability [% of the span]                       | < $\pm$ 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)                                                                                   |                                                                 |
| Response times                                            |                                                                                                    |                                                                 |
| Step response time analogue output [ms]                   | 3                                                                                                  |                                                                 |
| Operating conditions                                      |                                                                                                    |                                                                 |
| Ambient temperature [°C]                                  | -25...80                                                                                           |                                                                 |
| Storage temperature [°C]                                  | -40...100                                                                                          |                                                                 |
| Protection                                                | IP 68; IP 69K                                                                                      |                                                                 |
| 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 [years]                                              | 550                                                                                                |                                                                 |
| Pressure Equipment Directive                              | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request              |                                                                 |
| Mechanical data                                           |                                                                                                    |                                                                 |
| Weight [g]                                                | 213                                                                                                |                                                                 |
| Materials                                                 | stainless steel (316L/1.4404); FKM; PA; EPDM/X                                                     |                                                                 |
| Materials (wetted parts)                                  | stainless steel (303/1.4305); ceramics; FKM                                                        |                                                                 |
| Min. pressure cycles                                      | 100 million                                                                                        |                                                                 |
| Process connection                                        | threaded connection 1/4" NPT external thread 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

