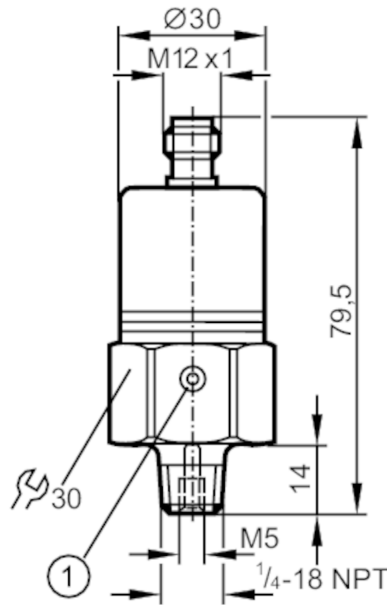


# PX3227



## Pressure transmitter with ceramic measuring cell

PA-001PRBN14-A-ZVG/US/ IV



1 ventilation



### Product characteristics

|                              |   |             |
|------------------------------|---|-------------|
| Number of inputs and outputs | Number of analogue outputs: 1                                   |             |
| Measuring range              | 0...15 psi  | 0...103 kPa |
| 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           |         |
| Medium temperature [°C] | -25...90                    |         |
| Min. burst pressure     | 450 psi                     | 3.1 MPa |
| Pressure rating         | 145 psi                     | 1 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               |  |
| Analogue current output [mA] | 4...20          |  |



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|                                    |                           |   |
|------------------------------------|---------------------------|---|
| 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...15 psi 0...103 kPa  |
| <b>Accuracy / deviations</b>       |                           |   |
| Repeatability                      | [% of the span]           | < 0,1; (with temperature fluctuations < 10 K)   |
| Characteristics deviation          | [% of the span]           | < ± 0,25 (BFSL) / < ± 0,5 (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]    | 0,15; (0...80 °C)   |
| Temperature coefficient span       | [% of the span / 10 K]    | 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 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                              |
|                                    | 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   |
| Housing                            |                           | cylindrical   |
| Dimensions                         | [mm]                      | Ø 30 / L = 79.5   |
| 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: 4, gold-plated



### Connection

