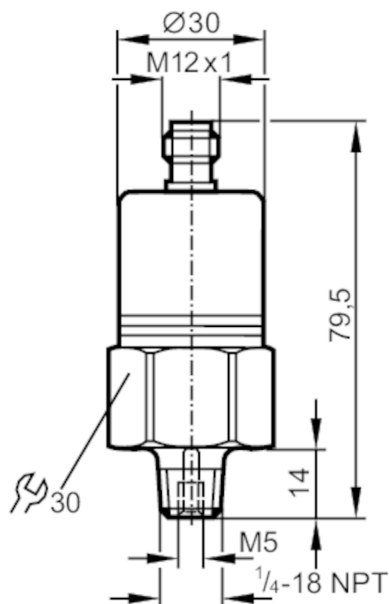


# PX9111



## Pressure transmitter with ceramic measuring cell

PA-300PSBN14-B-DVG/US/ IV



### Application

|                              |                                                    |
|------------------------------|----------------------------------------------------|
| Media                        | liquids and gases                                  |
| Conditionally suitable for   | use in gases at pressures > 25 bar only on request |
| Medium temperature [°C]      | -25...90                                           |
| Pressure rating [psi]        | 5800                                               |
| Min. bursting pressure [psi] | 12300                                              |
| 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 |
| Number of analogue outputs  | 1               |
| Analogue voltage output [V] | 0...10          |
| Min. load resistance [Ω]    | 2000            |
| Overload protection         | yes             |

### Measuring/setting range

|                       |          |
|-----------------------|----------|
| Measuring range [psi] | 0...3000 |
|-----------------------|----------|



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| Accuracy / deviations                     |                           |                                                                                            |
|-------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------|
| Repeatability                             | [% of the span]           | < 0,15; (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)                                                                           |
| 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                               |
|                                           | 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)                                                                        |
| Mechanical data                           |                           |                                                                                            |
| Weight                                    | [g]                       | 215.4                                                                                      |
| 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 external thread internal threadM5                              |
| Remarks                                   |                           |                                                                                            |
| Pack quantity                             |                           | 1 pcs.                                                                                     |
| Electrical connection                     |                           |                                                                                            |
| Connector: 1 x M12; Contacts: gold-plated |                           |                                                                                            |

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PA-300PSBN14-B-DVG/US/ /V



### Connection

