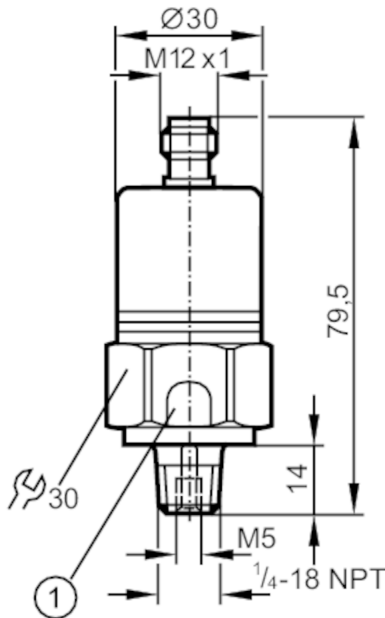


# PX3220



## Pressure transmitter with ceramic measuring cell

PA-500PSBN14-A-ZVG/US/ IV



- 1 pressure relief mechanism  
No mechanical force must be exerted on the pressure relief mechanism.



| Product characteristics         |                                                                 |
|---------------------------------|-----------------------------------------------------------------|
| Number of inputs and outputs    | Number of analogue outputs: 1                                   |
| Measuring range [psi]           | 0...5000                                                        |
| 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      | For gaseous media the application is limited to max. 25 bar.    |
| Medium temperature [°C]         | -25...90                                                        |
| Min. bursting pressure [psi]    | 17400                                                           |
| Min. bursting pressure [MPa]    | 120                                                             |
| Pressure rating [psi]           | 11600                                                           |
| Pressure rating [MPa]           | 80                                                              |
| 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                                   |



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| Outputs                                                   |                                                     |                                                                                                    |
|-----------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Total number of outputs                                   |                                                     | 1                                                                                                  |
| Output signal                                             |                                                     | analogue signal                                                                                    |
| Number of analogue outputs                                |                                                     | 1                                                                                                  |
| Analogue current output [mA]                              |                                                     | 4...20                                                                                             |
| Max. load [ $\Omega$ ]                                    |                                                     | 720; ( $U_b = 24 \text{ V}$ ; ( $U_b - 9,6 \text{ V}$ ) / 20 mA)                                   |
| Overload protection                                       |                                                     | yes                                                                                                |
| Measuring/setting range                                   |                                                     |                                                                                                    |
| Measuring range [psi]                                     |                                                     | 0...5000                                                                                           |
| 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] |                                                     | 0,3; (0...80 °C)                                                                                   |
| Temperature coefficient span [% of the span / 10 K]       |                                                     | 0,4; (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 radiation of interference | 10 V                                                                                               |
|                                                           | immunity                                            | according to the automotive directive 2004/104/EC / CISPR 25                                       |
|                                                           | 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              |
| Mechanical data                                           |                                                     |                                                                                                    |
| Weight [g]                                                |                                                     | 208                                                                                                |
| Housing                                                   |                                                     | cylindrical                                                                                        |
| Dimensions [mm]                                           |                                                     | $\varnothing 30$ / L = 79.5                                                                        |

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|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| 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 | yes                                                             |

Remarks

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

Electrical connection

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



Connection

