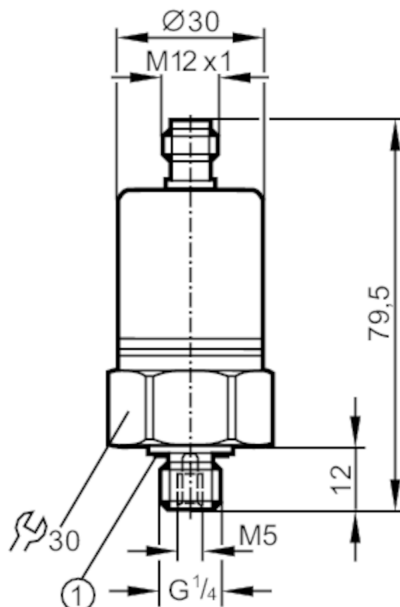


# PX3981



## Pressure transmitter with ceramic measuring cell

PA-160-SBG14-A/ZVG/US/ IV



1 Sealing



| Application                     |                                                                |
|---------------------------------|----------------------------------------------------------------|
| Media                           | liquids and gases                                              |
| Conditionally suitable for      | For gaseous media the application is limited to max. 25 bar.   |
| Medium temperature [°C]         | -25...90                                                       |
| Pressure rating [bar]           | 400                                                            |
| Min. bursting pressure [bar]    | 850                                                            |
| 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                                                         |
| Max. load [Ω]                   | 720; (U <sub>b</sub> = 24 V; (U <sub>b</sub> - 9,6 V) / 20 mA) |
| Overload protection             | yes                                                            |
| Measuring/setting range         |                                                                |
| Measuring range [bar]           | 0...160                                                        |



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| Accuracy / deviations                     |                           |                                                                                           |
|-------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------|
| 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]    | 0,1; (0...80 °C)                                                                          |
| Temperature coefficient span              | [% of the span / 10 K]    | 0,2; (0...80 °C)                                                                          |
| Response times                            |                           |                                                                                           |
| Step response time analogue output        | [ms]                      | 1                                                                                         |
| 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                                                                                   |
|                                           | ISO 7637-2 pulse          | severity level 3                                                                          |
|                                           | DIN EN 60068-2-27         | 50 g (11 ms)                                                                              |
| Shock resistance                          | DIN EN 61373              | category 3                                                                                |
| Vibration resistance                      | DIN EN 60068-2-6          | 20 g (10...2000 Hz)                                                                       |
|                                           | DIN EN 61373              | category 2                                                                                |
| Railway applications                      | DIN EN 50155 / IEC 60571  | Klasse T3, C1, S1                                                                         |
| Mechanical data                           |                           |                                                                                           |
| Weight                                    | [g]                       | 212.6                                                                                     |
| 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 G 1/4 external thread internal thread M5                              |
| Remarks                                   |                           |                                                                                           |
| Pack quantity                             |                           | 1 pcs.                                                                                    |
| Electrical connection                     |                           |                                                                                           |
| Connector: 1 x M12; Contacts: gold-plated |                           |                                                                                           |

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### Connection

