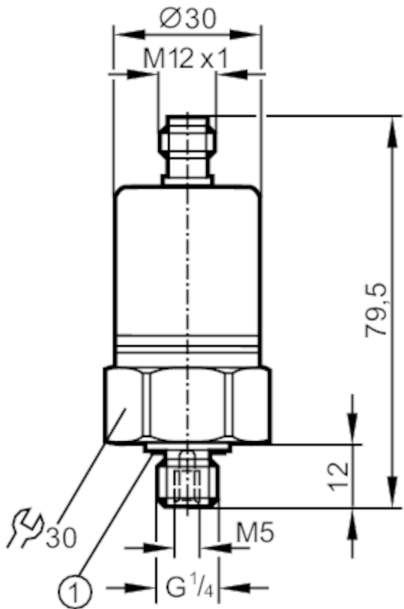


PX3981



Pressure transmitter with ceramic measuring cell

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



1      Sealing



| Product characteristics         |                                                              |
|---------------------------------|--------------------------------------------------------------|
| Number of inputs and outputs    | Number of analogue outputs: 1                                |
| Measuring range [bar]           | 0...160                                                      |
| Process connection              | threaded connection G 1/4 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 [bar]    | 850                                                          |
| Pressure rating [bar]           | 400                                                          |
| 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                                              |



## Pressure transmitter with ceramic measuring cell

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|                                                           |                                                                                           |                                                   |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------|
| Number of analogue outputs                                | 1                                                                                         |                                                   |
| Analogue current output [mA]                              | 4...20                                                                                    |                                                   |
| Max. load [Ω]                                             | 720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)                                                    |                                                   |
| Overload protection                                       | yes                                                                                       |                                                   |
| Measuring/setting range                                   |                                                                                           |                                                   |
| Measuring range [bar]                                     | 0...160                                                                                   |                                                   |
| 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 radiation of interference                                       | 10 V                                              |
|                                                           |                                                                                           | according to the automotive directive 2004/104/EC |
|                                                           | CISPR 25 immunity                                                                         |                                                   |
|                                                           |                                                                                           | according to the automotive directive 2004/104/EC |
|                                                           |                                                                                           | ISO 11452-2 HF radiated                           |
|                                                           | ISO 7637-2 pulse                                                                          | severity level 3                                  |
| Shock resistance                                          | DIN EN 60068-2-27                                                                         | 50 g (11 ms)                                      |
|                                                           | DIN EN 61373                                                                              | category 3                                        |
| Vibration resistance                                      | DIN EN 60068-2-6                                                                          | 20 g (10...2000 Hz)                               |
|                                                           | DIN EN 61373                                                                              | category 2                                        |
| MTTF [years]                                              | 480                                                                                       |                                                   |
| Pressure Equipment Directive                              | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request     |                                                   |
| Railway applications                                      | DIN EN 50155 / IEC 60571                                                                  | Klasse T3, C1, S1                                 |
| Mechanical data                                           |                                                                                           |                                                   |
| Weight [g]                                                | 210                                                                                       |                                                   |
| Materials                                                 | stainless steel (316L/1.4404); FKM; PA; EPDM/X                                            |                                                   |
| Materials (wetted parts)                                  | stainless steel (303/1.4305); ceramics; FKM                                               |                                                   |

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## Pressure transmitter with ceramic measuring cell

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|                               |                                                              |
|-------------------------------|--------------------------------------------------------------|
| Min. pressure cycles          | 100 million                                                  |
| Process connection            | threaded connection G 1/4 external thread internal thread:M5 |
| Restrictor element integrated | no (can be retrofitted)                                      |

### Remarks

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

### Electrical connection

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



### Connection

