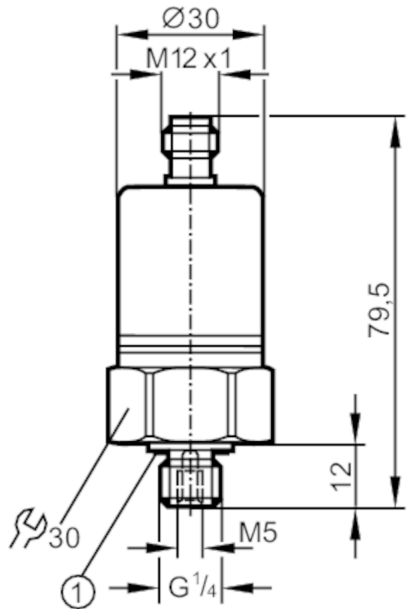


PA3589



Pressure transmitter with ceramic measuring cell

PA-,10BRBG14-A-ZVG/US/ IV



1 Sealing



| Product characteristics         |                                                                                   |              |                 |            |
|---------------------------------|-----------------------------------------------------------------------------------|--------------|-----------------|------------|
| Number of inputs and outputs    | Number of analogue outputs: 1                                                     |              |                 |            |
| Measuring range                 | 0...0.1 bar                                                                       | 0...100 mbar | 0...40.16 inH2O | 0...10 kPa |
| Process connection              | threaded connection G 1/4 external thread (DIN EN ISO 1179-2); internal thread:M5 |              |                 |            |
| Application                     |                                                                                   |              |                 |            |
| Special feature                 | Gold-plated contacts                                                              |              |                 |            |
| Application                     | for industrial applications                                                       |              |                 |            |
| Media                           | liquids and gases                                                                 |              |                 |            |
| Medium temperature [°C]         | -25...90; (on request: -40...90 °C)                                               |              |                 |            |
| Min. bursting pressure          | 30000 mbar                                                                        | 12030 inH2O  | 3000 kPa        |            |
| Pressure rating                 | 4000 mbar                                                                         | 1606 inH2O   | 400 kPa         |            |
| 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; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)                                                 |              |                   |            |
| Overload protection                |                                                     | yes                                                                                    |              |                   |            |
| Measuring/setting range            |                                                     |                                                                                        |              |                   |            |
| Measuring range                    |                                                     | 0...0.1 bar                                                                            | 0...100 mbar | 0...40.16 inH2O   | 0...10 kPa |
| Accuracy / deviations              |                                                     |                                                                                        |              |                   |            |
| Repeatability                      | [% of the span]                                     | < 0,2; (with temperature fluctuations < 10 K)                                          |              |                   |            |
| Characteristics deviation          | [% of the span]                                     | < ± 0,5 (BFSL) / < ± 1 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting) |              |                   |            |
| Long-term stability                | [% of the span]                                     | < ± 0,1; (per 6 months)                                                                |              |                   |            |
| Temperature coefficient zero point | [% of the span / 10 K]                              | < ± 0,5; (0...80 °C)                                                                   |              |                   |            |
| Temperature coefficient span       | [% of the span / 10 K]                              | < ± 0,5; (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; (7 days / 1 m water depth / 0.1 bar)                                            |              |                   |            |
| 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                                                                                   |              |                   |            |
|                                    | CISPR 25 immunity                                   | according to the automotive directive 2004/104/EC                                      |              |                   |            |
|                                    | ISO 11452-2 HF radiated                             | 100 V/m                                                                                |              |                   |            |
|                                    | ISO 7637-2 pulse                                    | severity level 4                                                                       |              |                   |            |
|                                    | 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]                                             | 555                                                                                    |              |                   |            |
| 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]                                                 | 215.5                                                                                  |              |                   |            |
| 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; Sealing: FKM                                   |              |                   |            |

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|                               |                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------|
| Min. pressure cycles          | 100 million                                                                                |
| Tightening torque [Nm]        | 25...35; (recommended tightening torque; depends on lubrication, seal and pressure rating) |
| Process connection            | threaded connection G 1/4 external thread (DIN EN ISO 1179-2); internal thread:M5          |
| Restrictor element integrated | no (can be retrofitted)                                                                    |

Remarks

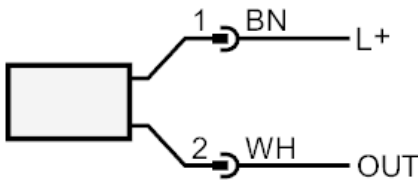
|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

Electrical connection

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



Connection



OUT                    analogue output  
                         colours to DIN EN 60947-5-2  
                         Core colours :  
BN =                    brown  
WH =                    white