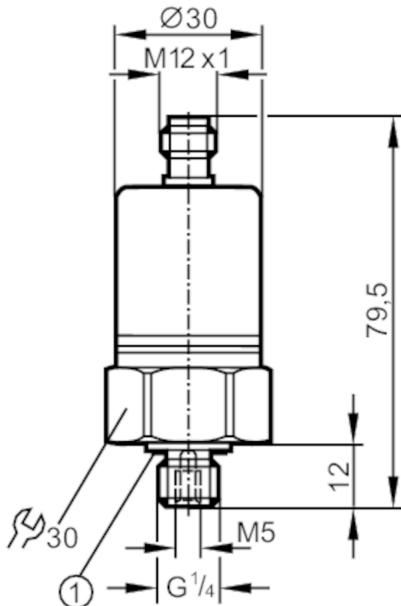


Pressure transmitter with ceramic measuring cell

PA-,25BRBG14-A-ZVG/US/ IV



1 Sealing



Product characteristics

| | | | |
|------------------------------|--|--------------|----------------------------|
| Number of inputs and outputs | Number of analogue outputs: 1 | | |
| Measuring range | 0...0.25 bar | 0...250 mbar | 0...100.3 inH2O 0...25 kPa |
| 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 | | |
| Medium temperature [°C] | -25...90; (on request: -40...90 °C) | | |
| Min. bursting pressure | 30000 mbar | 12030 inH2O | 3000 kPa |
| Pressure rating | 6000 mbar | 2400 inH2O | 600 kPa |
| Type of pressure | relative pressure | | |

Electrical data

| | | | |
|---|-----------------|--|--|
| Operating voltage [V] | 9.6...32 DC | | |
| Min. insulation resistance [$\text{M}\Omega$] | 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...0.25 bar | 0...250 mbar | 0...100.3 inH ₂ O | 0...25 kPa |
| 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] | < ± 0,2; (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 65 | | |
| 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 | | | |
| | 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] | 514 | | |
| 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] | 217 | | |
| Materials | | stainless steel (316L/1.4404); FKM; PA; EPDM/X | | |
| Materials (wetted parts) | | stainless steel (303/1.4305); ceramics; Sealing: FKM DIN 3869-14 | | |
| Min. pressure cycles | | 100 million | | |
| Process connection | | threaded connection G 1/4 external thread internal thread:M5 | | |

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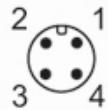
| | |
|-------------------------------|-------------------------|
| Restrictor element integrated | no (can be retrofitted) |
|-------------------------------|-------------------------|

| |
|----------------|
| Remarks |
|----------------|

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

| |
|------------------------------|
| Electrical connection |
|------------------------------|

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



| |
|-------------------|
| Connection |
|-------------------|

