# PP7026

## Pressure switch with ceramic measuring cell

PP-2,5-RBG14-QFRKG/US/ /V

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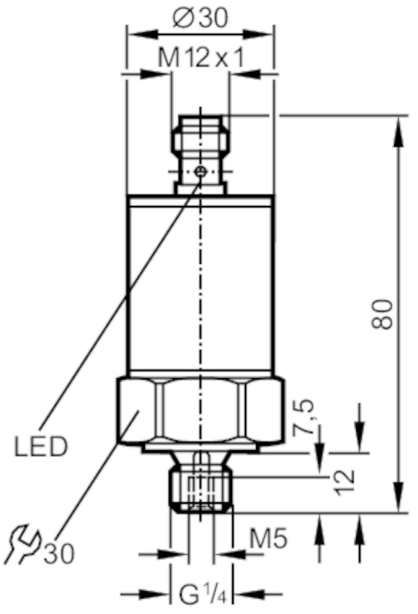
Alternative articles: PP7556
When selecting an alternative article and accessories please note that technical data may differ!




| | | | |
|---|---|---|---|
| **Product characteristics** | | | |
| Number of inputs and outputs | Number of digital outputs: 2 | | |
| Measuring range | 0...2.5 bar | 0...36.3 psi | 0...250 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...80 | | |
| Min. bursting pressure | 50 bar | 725 psi | 5000 kPa |
| Pressure rating | 20 bar | 290 psi | 2000 kPa |
| Type of pressure | relative pressure | | |
| **Electrical data** | | | |
| Operating voltage [V] | 9.6...30 DC; (PP2000 with sensor: > 18) | | |
| Current consumption [mA] | < 45 | | |
| Min. insulation resistance [MΩ] | 100; (500 V DC) | | |
| Protection class | III | | |
| Reverse polarity protection | yes | | |
| Power-on delay time [s] | 0.3 | | |

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| | | | |
|---|---|---|---|
| **Inputs / outputs** | | | |
| Number of inputs and outputs | Number of digital outputs: 2 | | |
| **Outputs** | | | |
| Total number of outputs | 2 | | |
| Output signal | switching signal | | |
| Electrical design | PNP/NPN | | |
| Number of digital outputs | 2 | | |
| Output function | normally open / normally closed; (parameterisable) | | |
| Max. voltage drop switching output DC [V] | 2 | | |
| Permanent current rating of switching output DC [mA] | 250 | | |
| Switching frequency DC [Hz] | < 170 | | |
| Short-circuit protection | yes | | |
| Type of short-circuit protection | pulsed | | |
| Overload protection | yes | | |
| **Measuring/setting range** | | | |
| Measuring range | 0...2.5 bar | 0...36.3 psi | 0...250 kPa |
| Set point SP | 0.03...2.5 bar | 0.4...36.3 psi | 3...250 kPa |
| Reset point rP | 0.02...2.49 bar | 0.2...36.2 psi | 2...249 kPa |
| In steps of | 0.01 bar | 0.1 psi | 1 kPa |
| **Accuracy / deviations** | | | |
| Switch point accuracy [% of the span] | < ± 1,5 | | |
| 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) | | |
| Linearity deviation [% of the span] | < ± 0,5 | | |
| Hysteresis deviation [% of the span] | < ± 0,1 | | |
| Long-term stability [% of the span] | < ± 0,1; (per year) | | |
| Temperature coefficient zero point [% of the span / 10 K] | < ± 0,2; (-25...80 °C) | | |
| Temperature coefficient span [% of the span / 10 K] | < ± 0,3; (-25...80 °C) | | |
| **Response times** | | | |
| Response time [ms] | < 3 | | |
| Damping process value dAP [s] | 0...4 | | |
| **Software / programming** | | | |
| Adjustment of the switch point | programming unit / teach function | | |

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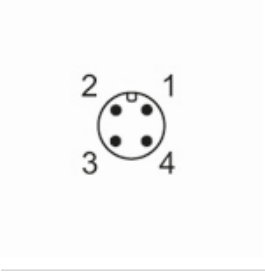
| | | | |
|---|---|---|---|
| **Interfaces** | | | |
| Communication interface | | EPS | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...80 | |
| Storage temperature | [°C] | -40...100 | |
| Protection | | IP 67 | |
| **Tests / approvals** | | | |
| EMC | | EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | | EN 61000-4-3 HF radiated | 10 V/m |
| | | EN 61000-4-4 Burst | 2 kV |
| | | EN 61000-4-6 HF conducted | 10 V |
| Shock resistance | | DIN IEC 68-2-27 | 50 g (11 ms) |
| Vibration resistance | | DIN IEC 68-2-6 | 20 g (10...2000 Hz) |
| **Mechanical data** | | | |
| Materials | | stainless steel (1.4301 / 304); PA | |
| 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 | |
| Restrictor element integrated | | no (can be retrofitted) | |
| **Displays / operating elements** | | | |
| Display | | operation | LED, green |
| | | switching status | 2 x LED, yellow |
| Teach function | | yes | |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |

**Electrical connection**

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



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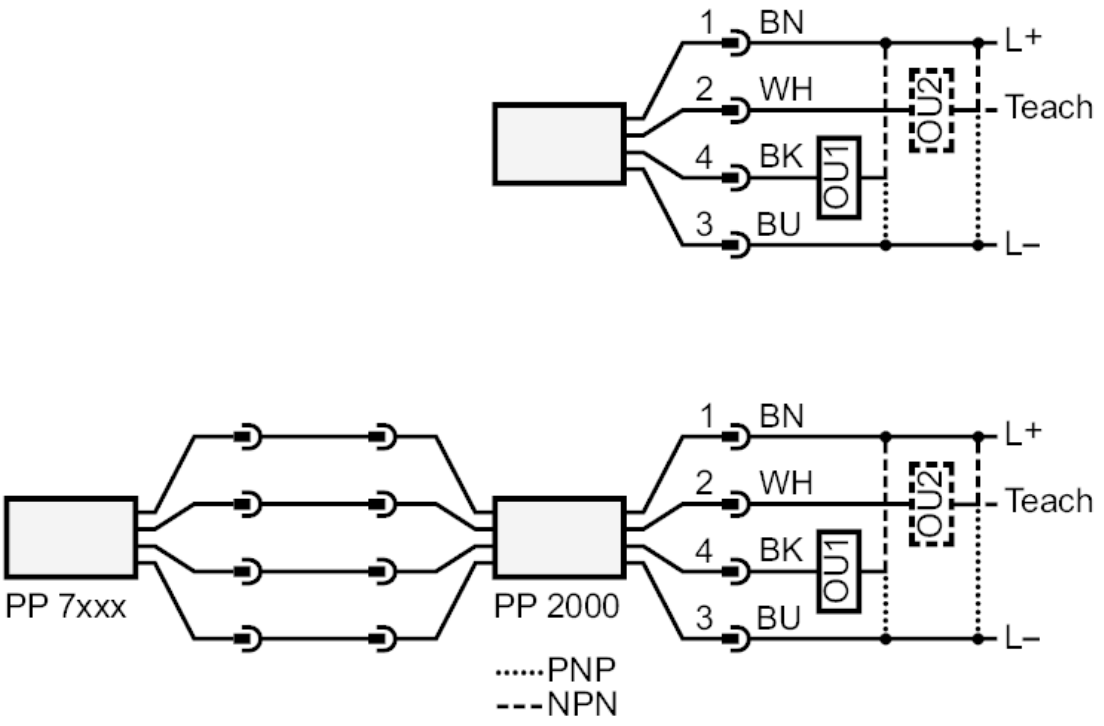
### Connection