# PZ5121

## Pressure sensor with LED bar display

PZ-250MSBM12-HFPKG/US/ /V

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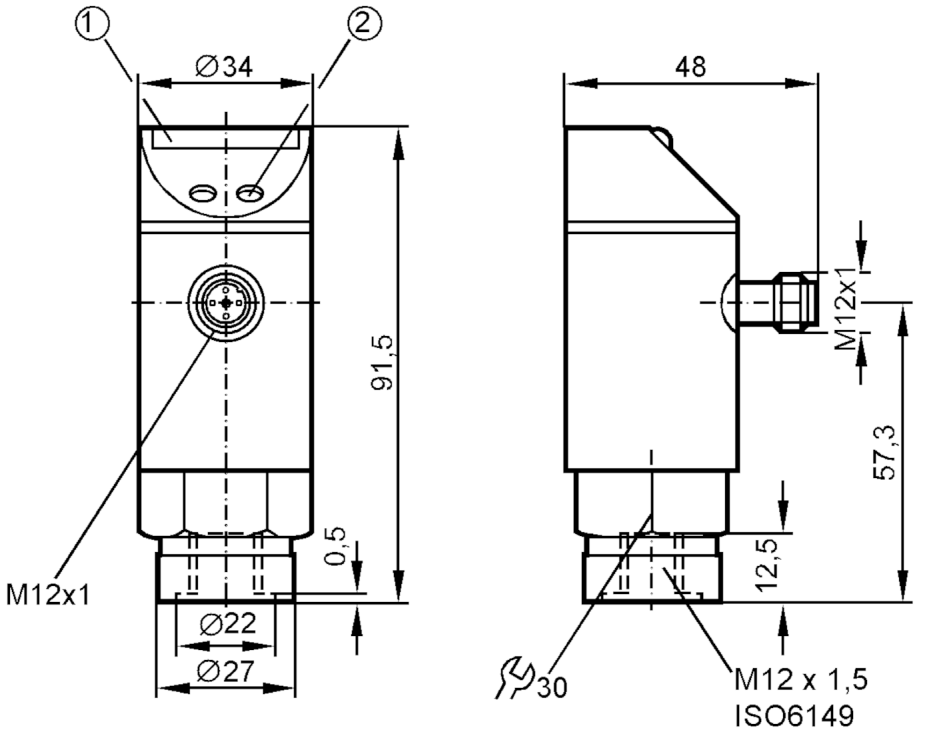


1 LED display
2 Programming button

CE

| | | |
|---|---|---|
| **Product characteristics** | | |
| Number of inputs and outputs | | Number of digital outputs: 1 |
| Measuring range | [MPa] | 0...25 |
| Process connection | | threaded connection M12 x 1,5 Internal thread ISO 6149 |
| **Application** | | |
| System | | 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...80 |
| Min. bursting pressure | [MPa] | 85 |
| Pressure rating | [MPa] | 40 |
| Type of pressure | | relative pressure |
| **Electrical data** | | |
| Operating voltage | [V] | 18...30 DC |
| Current consumption | [mA] | < 50 |
| Min. insulation resistance | [MΩ] | 100; (500 V DC) |
| Protection class | | III |
| Reverse polarity protection | | yes |
| Power-on delay time | [s] | 0.2 |

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| | | |
|---|---|---|
| Integrated watchdog | | yes |
| **Inputs / outputs** | | |
| Number of inputs and outputs | | Number of digital outputs: 1 |
| **Outputs** | | |
| Total number of outputs | | 1 |
| Output signal | | switching signal |
| Electrical design | | PNP |
| Number of digital outputs | | 1 |
| Output function | | normally open / closed; (configurable) |
| Max. voltage drop switching output DC | [V] | 2 |
| Permanent current rating of switching output DC | [mA] | 250 |
| Switching frequency DC | [Hz] | 10 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | yes (non-latching) |
| Overload protection | | yes |
| **Measuring/setting range** | | |
| Measuring range | [MPa] | 0...25 |
| Set point SP | [MPa] | 1.25...25 |
| Reset point rP | [MPa] | 0.75...24.5 |
| In steps of | [MPa] | 0.25 |
| Note on hysteresis | | adjustable |
| **Accuracy / deviations** | | |
| Switch point accuracy [% of the final value] | | < ± 2,0 |
| Repeatability [% of the final value] | | < ± 0,25; (with temperature fluctuations < 10 K) |
| Temperature drift per 10 K | | < ± 0.3 |
| **Software / programming** | | |
| Adjustment of the switch point | | Programming button |
| **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) |

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| Mechanical data | | |
|---|---|---|
| Dimensions | [mm] | Ø 34 / L = 91.5 |
| Material | | stainless steel (1.4305 / 303); PBT; PC; PA; NBR; EPDM/X; FKM |
| Materials (wetted parts) | | stainless steel (1.4305 / 303); ceramics; FKM |
| Min. pressure cycles | | 100 million |
| Process connection | | threaded connection M12 x 1,5 Internal thread ISO 6149 |

| Displays / operating elements | | |
|---|---|---|
| Display | Switching status | LED, yellow |
| | Measured values | 10 x LED, green Resolution 10 % of the final value |

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

**Electrical connection**

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