

PB7021

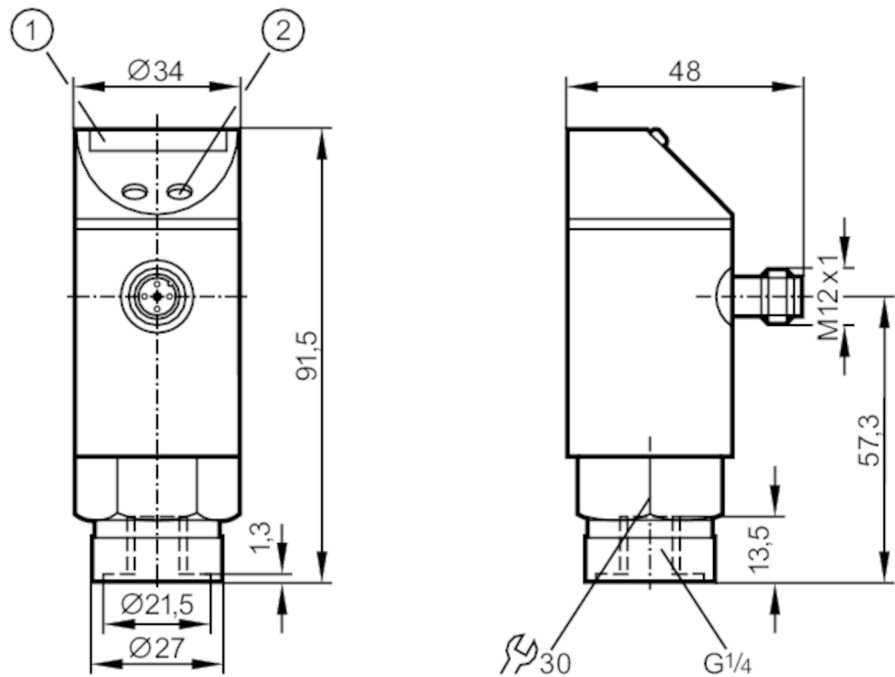


Pressure sensor with LED bar display

PB-250-SBR14-QFPG/US/ IV

Article no longer available - archive entry

Alternative articles: PN7001
When selecting an alternative article and accessories please note that technical data may differ!



- 1 LED bar display
- 2 programming button



| Product characteristics | |
|---------------------------------|--|
| Number of inputs and outputs | Number of digital outputs: 2 |
| Measuring range [bar] | 0...250 |
| Process connection | threaded connection G 1/4 internal thread |
| Application | |
| 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 [bar] | 850 |
| Pressure rating [bar] | 400 |
| 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 |



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| | | |
|---|---------------------------|--|
| Reverse polarity protection | | yes |
| Power-on delay time | [s] | 0.2 |
| Integrated watchdog | | yes |
| 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 |
| 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] | 10 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |
| Measuring/setting range | | |
| Measuring range | [bar] | 0...250 |
| Set point SP | [bar] | 12.5...250 |
| In steps of | [bar] | 2.5 |
| Hysteresis | [bar] | 5 |
| 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 | | |
|--------------------------|---|--|
| Materials | EPDM/X; FKM; NBR; PBT; PC; stainless steel (1.4301 / 304) | |
| Materials (wetted parts) | FKM; ceramics; stainless steel (1.4305 / 303) | |
| Min. pressure cycles | 100 million | |
| Process connection | threaded connection G 1/4 internal thread | |

| Displays / operating elements | | |
|-------------------------------|------------------|---|
| Display | switching status | 2 x 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

