

PB7026

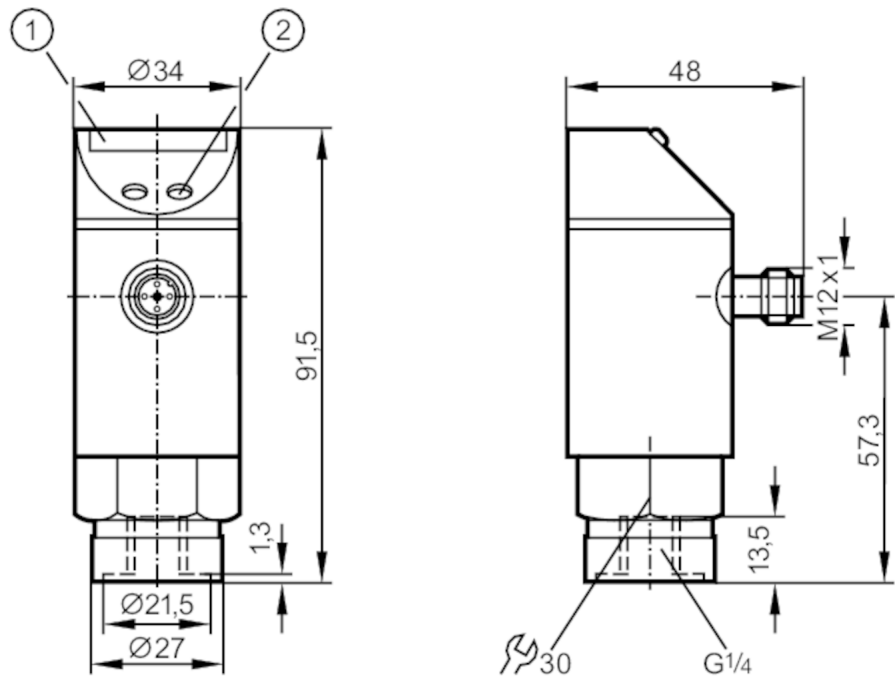


Pressure sensor with LED bar display

PB-2,5-RBR14-QFPKG/US/ IV

Article no longer available - archive entry

Alternative articles: PN7006  
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...2.5                                   |
| Process connection              |  | threaded connection G 1/4 internal thread |
| Application                     |  |                                           |
| Application                     |  | for industrial applications               |
| Media                           |  | liquids and gases                         |
| Medium temperature [°C]         |  | -25...80                                  |
| Min. bursting pressure [bar]    |  | 50                                        |
| Pressure rating [bar]           |  | 20                                        |
| 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                                       |



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|                                                 |                           |                                                         |
|-------------------------------------------------|---------------------------|---------------------------------------------------------|
| Power-on delay time                             | [s]                       | 0.2                                                     |
| Integrated watchdog                             |                           | yes                                                     |
| <b>Inputs / outputs</b>                         |                           |                                                         |
| Number of inputs and outputs                    |                           | Number of digital outputs: 2                            |
| <b>Outputs</b>                                  |                           |                                                         |
| 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                                                     |
| <b>Measuring/setting range</b>                  |                           |                                                         |
| Measuring range                                 | [bar]                     | 0...2.5                                                 |
| Set point SP                                    | [bar]                     | 0.125...2.5                                             |
| In steps of                                     | [bar]                     | 0.025                                                   |
| Hysteresis                                      | [bar]                     | 0.05                                                    |
| <b>Accuracy / deviations</b>                    |                           |                                                         |
| Switch point accuracy<br>[% of the final value] |                           | $< \pm 2,0$                                             |
| Repeatability<br>[% of the final value]         |                           | $< \pm 0,25$ ; (with temperature fluctuations $< 10$ K) |
| Temperature drift per 10 K                      |                           | $< \pm 0.3$                                             |
| <b>Software / programming</b>                   |                           |                                                         |
| Adjustment of the switch point                  |                           | programming button                                      |
| <b>Operating conditions</b>                     |                           |                                                         |
| Ambient temperature                             | [°C]                      | -25...80                                                |
| Storage temperature                             | [°C]                      | -40...100                                               |
| Protection                                      |                           | IP 65                                                   |
| <b>Tests / approvals</b>                        |                           |                                                         |
| 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; PTFE; stainless steel (304/1.4301) |  |
| Materials (wetted parts) | FKM; ceramics; stainless steel (303/1.4305)                   |  |
| 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

