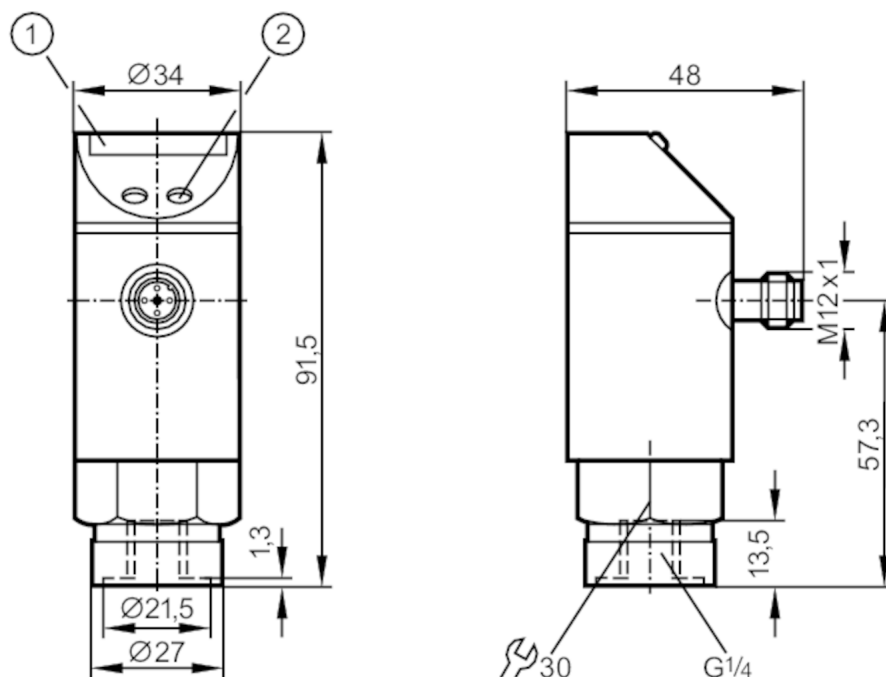




## Pressure sensor with LED bar display

PB-250-SBR14-HFPKG/US/ IV

Article no longer available - archive entry



- 1 LED bar display  
2 programming button



## Product characteristics

|                              |                                           |
|------------------------------|-------------------------------------------|
| Number of inputs and outputs | Number of digital outputs: 1              |
| Measuring range [bar]        | 0...250                                   |
| Process connection           | threaded connection G 1/4 internal thread |

## Application

|                              |                                                              |
|------------------------------|--------------------------------------------------------------|
| Special feature              | 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 [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             |
| 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 / 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                                         |                     |
| Reset point rP [bar]                                 | 7.5...245                                          |                     |
| In steps of [bar]                                    | 2.5                                                |                     |
| 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) |

# PB5021



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| Mechanical data               |                                                               |  |
|-------------------------------|---------------------------------------------------------------|--|
| Materials                     | EPDM/X; FKM; NBR; PA; PBT; PC; stainless steel (1.4301 / 304) |  |
| Materials (wetted parts)      | stainless steel (1.4305 / 303); ceramics; FKM                 |  |
| Min. pressure cycles          | 100 million                                                   |  |
| Process connection            | threaded connection G 1/4 internal thread                     |  |
| Restrictor element integrated | no (can be retrofitted)                                       |  |

| 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

