

1) Display and control panel, 2) Process connection, 3) Housing rotatable 320°



Basic features

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|----------------------------|---|
| Approval/Conformity | CE UKCA cULus WEEE |
| Operating panel | 2 buttons 320° rotation 4-digit, 7-segment display, red |

Display/Operation

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|-----------------------------------|-----|
| Switching function display | LED |
|-----------------------------------|-----|

Electrical connection

| | |
|------------------------------------|----------------------------|
| Connection | M12x1-Male, 4-pin, A-coded |
| Polarity reversal protected | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|---|-------------|
| Current draw max. | 50 mA |
| Load cycles | 100 mil. |
| Operating voltage U_b | 18...30 VDC |
| Output current max. | 150 mA |
| Protection class | III |
| Switching cycles min. | 100 mil. |
| Switching frequency | 170 Hz |

Environmental conditions

| | |
|-------------------------------------|---------------------------------------|
| Ambient temperature | -40...85 °C |
| Compensation temperature | -25...85 °C |
| EN 60068-2-27, Shock | 30 g, 11 ms |
| EN 60068-2-6, Vibration | 30 g, 10...2000 Hz |
| IP rating | IP67, when threaded in |
| Interference immunity | EN 61326-1:2013 EN 61326-2-3: 2013 |
| Media temperature | -40...125 °C |
| Noise emission | EN 61326-1:2013 EN 61326-2-3: 2013 |
| Storage temperature | -40...85 °C |
| Temperature coefficient typ. | $\leq \pm 0.3\%$ FSO/10K |

Functional safety

| | |
|---------------------|-------|
| MTTF (40 °C) | 267 a |
|---------------------|-------|

Interface

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|-------------------------|--|
| Analog output | Analog, voltage/Analog, current selectable 4...20 mA/0...10 V |
| Interface | IO-Link 1.1 |
| Switching output | 2x PNP/NPN NO/NC selectable |

Pressure Sensors
BSP B250-EV009-P00S2B-S4
Order Code: BSP00YC



Material

| | |
|-----------------------------|---|
| Connector housing, material | 1.4301 stainless steel |
| Gasket, material | FKM |
| Housing material | 1.4301 stainless steel PE, High-density polyethylene |
| Measuring cell, material | Ceramic Al2O3 |
| Process connection material | 1.4301 stainless steel |

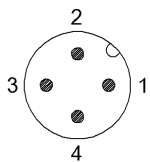
Range/Distance

| | |
|--------------------------|-----------------|
| Accuracy | ±0.5 % FSO BFSL |
| Burst pressure | 750 bar |
| Long-term stability max. | 0.3 % FSO/year |
| Measuring range | 0...250 bar |
| Overload pressure | 400 bar |
| Repeat accuracy | ≤ ± 0.2 % FSO |
| Resolution | ≤ 14 bits |
| Response time max. | 13 ms |
| Sampling rate | 1 ms |

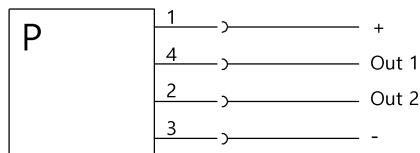
Mechanical data

| | |
|------------------------|-------------------|
| Process connection | G 1/4" (DIN 3852) |
| Tightening torque max. | 5 Nm |
| Weight | 230.00 g |

Connector Drawings



Wiring Diagrams



Out 1=PNP/NPN/IO-Link
 Out 2=PNP/NPN/4...20 mA/0...10 V