

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



### Basic features

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

### Display/Operation

<b>Switching function display</b>	LED
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### Electrical connection

<b>Connection</b>	M12x1-Male, 4-pin, A-coded
<b>Polarity reversal protected</b>	yes
<b>Short-circuit protection</b>	yes

### Electrical data

<b>Current draw max.</b>	50 mA
<b>Load cycles</b>	100 mil.
<b>Operating voltage <math>U_b</math></b>	18...30 VDC
<b>Output current max.</b>	150 mA
<b>Protection class</b>	III
<b>Switching cycles min.</b>	100 mil.
<b>Switching frequency</b>	170 Hz

### Environmental conditions

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

### Functional safety

<b>MTTF (40 °C)</b>	267 a
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### IO-Link

<b>IO-Link Profil IDs</b>	0x0001 SSP0
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### Interface

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

Pressure Sensors  
**BSP B020-EV009-P00S2B-S4**  
**Order Code: BSP00Y6**



**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 Al <sub>2</sub> O <sub>3</sub>
Process connection material	1.4301 stainless steel

**Range/Distance**

Accuracy	±0.5 % FSO BFSL
Burst pressure	70 bar
Long-term stability max.	0.3 % FSO/year
Measuring range	0...20 bar
Overload pressure	40 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

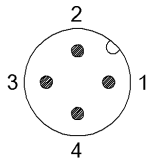
**Remarks**

vacuum-tight

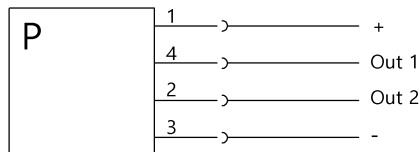
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

**Connector Drawings**



**Wiring Diagrams**



Out 1=PNP/NPN/IO-Link

Out 2=PNP/NPN/4...20 mA/0...10 V