

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



### Basic features

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

### Display/Operation

Switching function display	LED
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### 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 <sub>b</sub>	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.	≤ ±0.3 % FSO/10K

### Functional safety

MTTF (40 °C)	267 a
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### Material

Connector housing, material	1.4301 stainless steel
Gasket, material	FKM
Housing material	Stainless steel (1.4301) PE, High-density polyethylene
Measuring cell, material	Ceramic Al <sub>2</sub> O <sub>3</sub>
Process connection material	1.4301 stainless steel

Pressure Sensors  
**BSP B010-EV009-P00S2B-S4**  
**Order Code: BSP00Y4**



**Mechanical data**

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

**Output/Interface**

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

**Range/Distance**

Accuracy	±0.5 % FSO BFSL
Burst pressure	35 bar
Long-term stability max.	0.3 % FSO/year
Measuring range	0...10 bar
Overload pressure	20 bar
Repeat accuracy	≤ ± 0.2 % FSO
Resolution	≤ 14 bits
Response time max.	13 ms
Sampling rate	1 ms

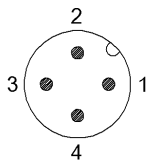
**Remarks**

vacuum-tight

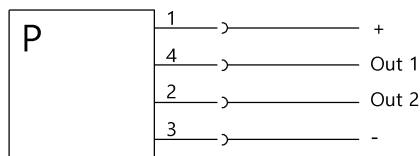
For more information about MTTF and B10d see MTTF / B10d Certificate

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