

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



Display/Operation

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 million
 Operating voltage U_b 18...36 VDC
 Output current max. 250 mA
 Protection class III
 Switching cycles min. 100 million
 Switching frequency 200 Hz

Environmental conditions

Ambient temperature -40...85 °C
 Compensation temperature -25...85 °C
 IP rating IP67
 Interference immunity EN 61326-2-3: 2006
 Media temperature -40...125 °C
 Noise emission EN 61326-2-3:2007
 Storage temperature -40...85 °C
 Temperature coefficient typ. $\leq \pm 0.3\%$ FSO/10K

Functional safety

MTTF (40 °C) 386 a

General data

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

Material

Connector housing, material Stainless steel (1.4307)
 Gasket, material Fluoroelastomer
 Housing material Stainless steel (1.4301)
 PA 6.6
 Measuring cell, material Ceramic Al₂O₃
 Process connection material Stainless steel (1.4301)

Mechanical data

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

Output/Interface

Interface IO-Link 1.1
 Switching output 2x PNP normally open/normally closed (NO/NC)

Pressure Sensors
BSP V010-EV003-D00S1B-S4
Order Code: BSP00CH

BALLUFF

Range/Distance

Accuracy	±0.5 % FSO BFSL
Burst pressure	35.00 bar
Long-term stability max.	0.3 % FSO/year

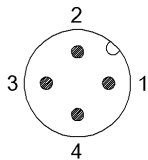
Measuring range	-1...10 bar
Overload pressure	20 bar
Repeat accuracy	≤ ± 0.2 % FSO
Resolution	≤ 12 bits
Sampling rate	1 ms

Remarks

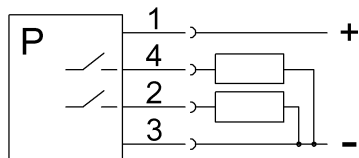
vacuum-tight
For further information about the MTTF and B10d see MTTF / B10d certificate

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.

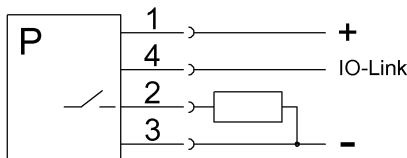
Connector Drawings



Wiring Diagrams



1)



2)

- 1) Standard mode
- 2) IO-Link mode