

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



### Basic features

<b>Approval/Conformity</b>	CE UKCA cULus Ecolab 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>	0...70 °C
<b>EN 60068-2-27, Shock</b>	500 g, 11 ms
<b>EN 60068-2-6, Vibration</b>	10 g, 25...2000 Hz
<b>IP rating</b>	IP67, IP69K, when threaded in
<b>Interference immunity</b>	EN 61326-1:2013 EN 61326-2-3: 2013
<b>Media temperature</b>	-10...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>	≤ ±0.15 % 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 M100-ZT010-P00S2B-S4-006**  
**Order Code: BSP0102**



**Material**

<b>Connector housing, material</b>	1.4301 stainless steel
<b>Housing material</b>	1.4301 stainless steel PE, High-density polyethylene
<b>Measuring cell, material</b>	1.4435 stainless steel
<b>Process connection material</b>	1.4404 stainless steel
<b>Transmission medium</b>	Food grade oil

**Range/Distance**

<b>Accuracy</b>	±0.5 % FSO BFSL
<b>Burst pressure</b>	1.5 bar
<b>Long-term stability max.</b>	0.15 % FSO/year
<b>Measuring range</b>	0...0.1 bar
<b>Overload pressure</b>	0.5 bar
<b>Repeat accuracy</b>	≤ ± 0.2 % FSO
<b>Resolution</b>	≤ 14 bits
<b>Response time max.</b>	13 ms
<b>Sampling rate</b>	1 ms

**Mechanical data**

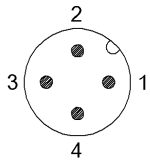
<b>Process connection</b>	1 1/2" Tri Clamp
<b>Weight</b>	350.00 g

**Remarks**

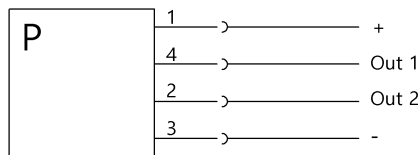
vacuum-tight  
 3.1 Acceptance test certificate per EN 10204  
 For more information about MTTF and B10d see MTTF / B10d Certificate

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