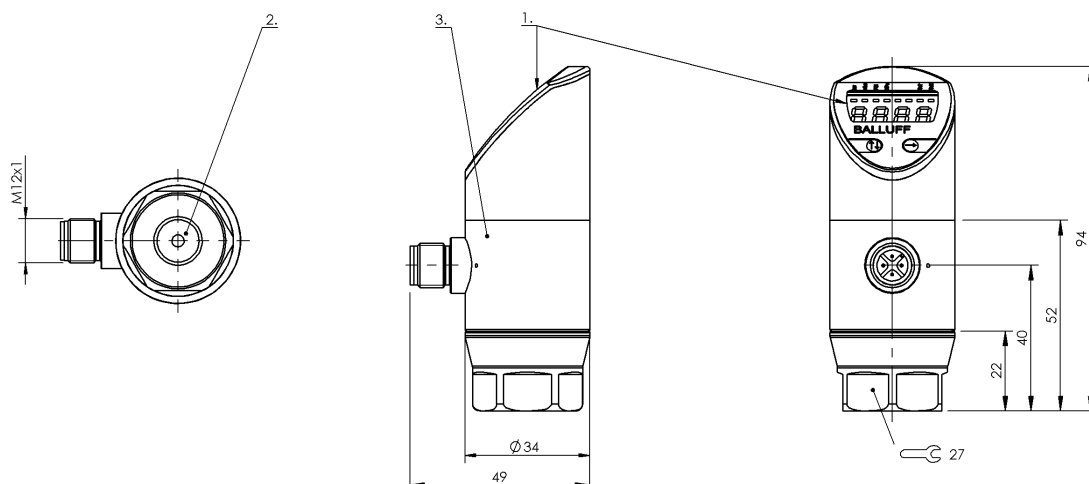




1) Display and control panel, 2) Process connection, 3) Housing rotatable 320°



## 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 -25...85 °C  
 Compensation temperature -25...85 °C  
 IP rating IP67  
 Interference immunity EN 61326-2-3: 2006  
 Media temperature -25...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) 309 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 PA  
 PA 6.6  
 Measuring cell, material Ceramic Al<sub>2</sub>O<sub>3</sub>  
 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

Analog output Analog, voltage 0...10 V  
 Interface IO-Link 1.1  
 Switching output NPN normally open/normally closed (NO/NC)

Pressure Sensors  
**BSP B050-EV002-A01S1B-S4**  
Order Code: BSP00C8

**BALLUFF**

Range/Distance

|                          |                 |
|--------------------------|-----------------|
| Accuracy                 | ±0.5 % FSO BFSL |
| Burst pressure           | 150.00 bar      |
| Long-term stability max. | 0.3 % FSO/year  |

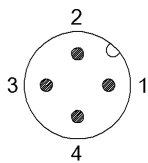
|                   |               |
|-------------------|---------------|
| Measuring range   | 0...50 bar    |
| Overload pressure | 100 bar       |
| Repeat accuracy   | ≤ ± 0.2 % FSO |
| Resolution        | ≤ 12 bits     |
| Sampling rate     | 1 ms          |

Remarks

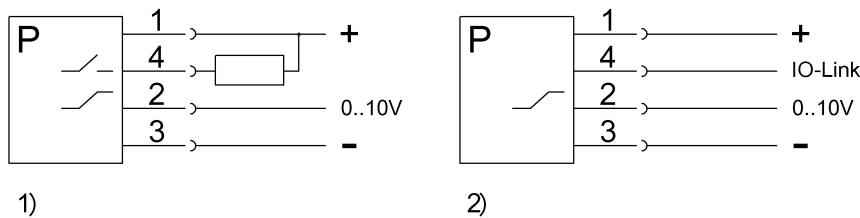
vacuum-tight  
Permissible burden on analog output Rmin = 10 kOhm  
For further information about the MTTF and B10d see MTTF / B10d certificate

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) Standard mode  
2) IO-Link mode