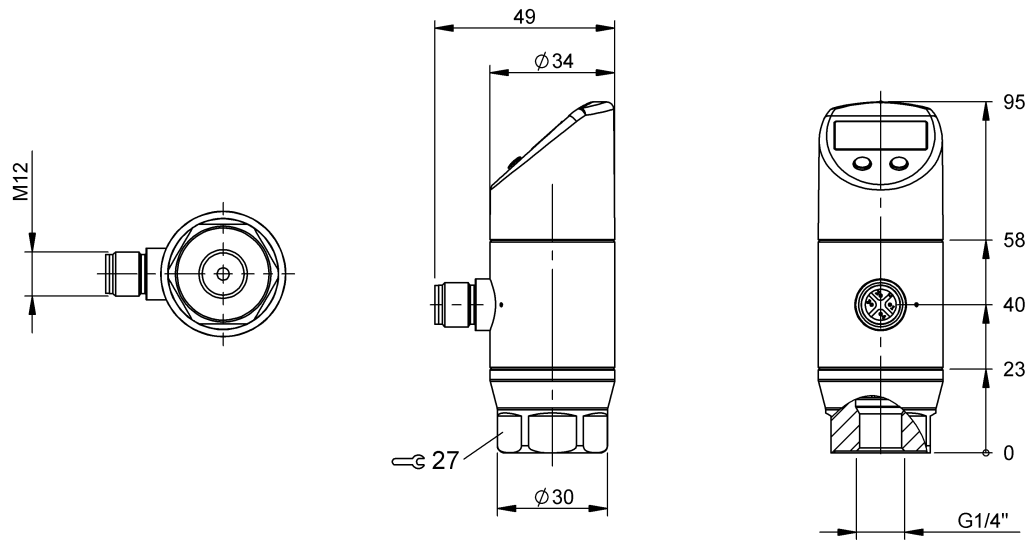




1) Display and control panel, 2) Process connection, 3) Housing rotatable 320°



#### Basic features

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

#### 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 mil.    |
| Operating voltage $U_b$ | 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<br>EN 61326-2-3: 2013 |
| Media temperature            | -40...125 °C                          |
| Noise emission               | EN 61326-1:2013<br>EN 61326-2-3: 2013 |
| Storage temperature          | -40...85 °C                           |
| Temperature coefficient typ. | $\leq \pm 0.3\%$ FSO/10K              |

#### Functional safety

|              |       |
|--------------|-------|
| MTTF (40 °C) | 267 a |
|--------------|-------|

#### IO-Link

|                    |             |
|--------------------|-------------|
| IO-Link Profil IDs | 0x0001 SSP0 |
|--------------------|-------------|

#### Interface

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

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

**BALLUFF**

Material

|                             |                                                         |
|-----------------------------|---------------------------------------------------------|
| Connector housing, material | 1.4301 stainless steel                                  |
| Gasket, material            | FKM                                                     |
| Housing material            | 1.4301 stainless steel<br>PE, High-density polyethylene |
| Measuring cell, material    | Ceramic Al2O3                                           |
| Process connection material | 1.4301 stainless steel                                  |

Mechanical data

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

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            |

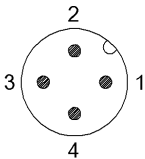
Remarks

vacuum-tight

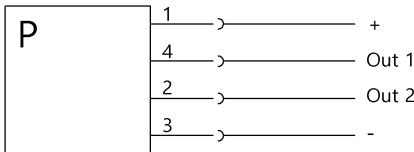
For more information about MTTF and B10d see MTTF / B10d Certificate

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 (Schematic)



Out 1=PNP/NPN/IO-Link

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