

Basic features

Approval/Conformity	CE UKCA cULus WEEE
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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.	30 mA
Load cycles	100 mil.
Operating voltage U_b	18...30 VDC
Output current max.	250 mA
Protection class	III
Switching cycles min.	100 mil.
Switching frequency	200 Hz

Environmental conditions

Ambient temperature	-25...85 °C
Compensation temperature	-25...85 °C
EN 60068-2-27, Shock	500 g, 1 ms
EN 60068-2-6, Vibration	10 g, 25...2000 Hz
IP rating	IP67
Interference immunity	EN 61326-2-3: 2013
Media temperature	-40...125 °C
Noise emission	EN 61326-2-3: 2013
Storage temperature	-40...85 °C
Temperature coefficient typ.	$\leq \pm 0.5\%$ FSO/10K

Functional safety

MTTF (40 °C)	661 a
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IO-Link

IO-Link Profil IDs	0x0001 SSP0
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Interface

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

Material

Connector housing, material	Nickel-plated brass
Gasket, material	FKM
Housing material	1.4301 stainless steel
Measuring cell, material	Ceramic Al ₂ O ₃
Process connection material	1.4301 stainless steel

Mechanical data

Process connection	G 1/4" (DIN 3852)
Tightening torque max.	5 Nm
Weight	120 g

Pressure Sensors
BSP B010-DV004-D06S1A-S4
Order Code: BSP00PN

BALLUFF

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
Resolution	≤ 12 bits
Response time max.	13 ms
Sampling rate	1 ms

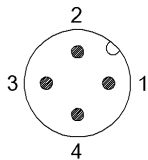
Remarks

vacuum-tight

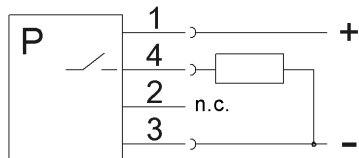
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

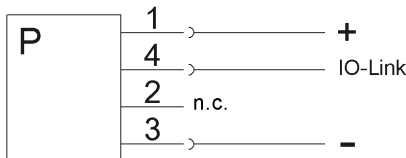
Connector Drawings



Wiring Diagrams (Schematic)



1)



2)

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