



Basic features

Approval/Conformity	CE UKCA cULus WEEE
---------------------	-----------------------------

Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Electrical version	2-wire
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Current draw max.	25 mA
Load cycles	100 mil.
Operating voltage Ub	8...32 VDC
Protection class	III

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.	≤ ±0.5 % FSO/10K

Functional safety

MTTF (40 °C)	1388 a
--------------	--------

Interface

Analog output	Analog, current 4...20 mA
---------------	---------------------------

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	R 1/4"
Tightening torque max.	30 Nm
Weight	120 g

Range/Distance

Accuracy	±0.5 % FSO BFSL
Burst pressure	150 bar
Long-term stability max.	0.3 % FSO/year
Measuring range	0...50 bar
Overload pressure	120 bar
Resolution	≤ 14 bits
Response time max.	18 ms
Sampling rate	1 ms

Pressure Sensors
BSP B050-KV004-A06A1A-S4
Order Code: BSP00HW



Remarks

vacuum-tight
Permissible burden on analog output $R_{max} = 800 \text{ Ohm}$
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

