

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



Basic features

Approval/Conformity	CE cULus EAC WEEE
Operating panel	2 buttons 320° rotation 4-digit, 7-segment display, red

Display/Operation

Switching function display	LED
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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.	50 mA
Load cycles	100 mil.
Operating voltage U_b	18...36 VDC
Output current max.	500 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	30 g, 11 ms
EN 60068-2-6, Vibration	30 g, 10...2000 Hz
IP rating	IP67
Interference immunity	EN 61000-6-2: 2005
Media temperature	-25...125 °C
Noise emission	EN 61000-6-4: 2013
Storage temperature	-40...85 °C
Temperature coefficient typ.	≤ ±0.3 % FSO/10K

Functional safety

MTTF (40 °C)	368 a
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Interface

Analog output	Analog, current 4...20 mA
Switching output	PNP normally open/normally closed (NO/NC)

Material

Connector housing, material	1.4307 stainless steel
Gasket, material	FKM
Housing material	PA PA 6.6
Measuring cell, material	Ceramic Al ₂ O ₃
Process connection material	1.4301 stainless steel

Pressure Sensors
BSP B250-EV002-A02A0B-S4
Order Code: BSP001A



Mechanical data

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

Range/Distance

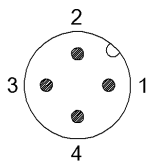
Accuracy	±0.5 % FSO BFSL
Burst pressure	750.00 bar
Long-term stability max.	0.3 % FSO/year
Measuring range	0...250 bar
Overload pressure	400 bar
Repeat accuracy	≤ ± 0.2 % FSO
Resolution	≤ 12 bits
Sampling rate	1 ms

Remarks

vacuum-tight
 Permissible burden on analog output Rmax = 330 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

