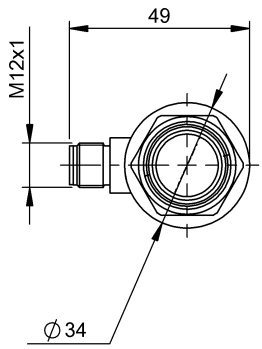
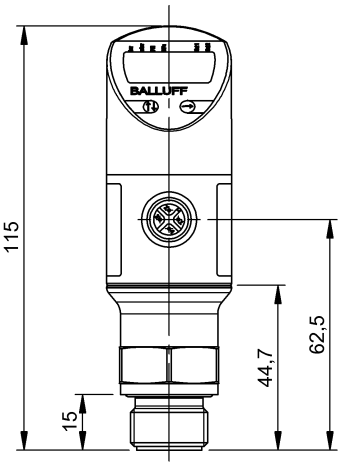
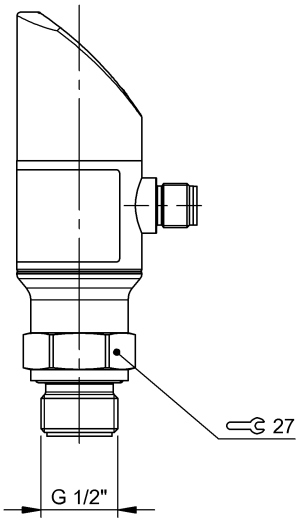
Pressure Sensors

BSP B250-IV003-A03A0B-S4
Order Code: BSP007K







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 Ub	18...36 VDC
Output current max.	500 mA
Protection class	III
Switching cycles min.	100 million
Switching frequency	200 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
Interference immunity	EN 61000-6-2: 2005
Media temperature	-40...125 °C
Noise emission	EN 61326-2-3:2013
Storage temperature	-40...85 °C
Temperature coefficient typ.	≤ ±0.3 % FSO/10K

Functional safety

MTTF (40 °C)	368 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	Stainless steel (1.4301) PA 6.6
Measuring cell, material	Stainless steel (1.4435)
Process connection material	Stainless steel (1.4404)

Mechanical data

Process connection	G 1/2" (DIN 3852) front-flush
Tightening torque max.	10 Nm
Weight	300.00 g

Output/Interface

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

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Range/Distance

Accuracy	±0.5 % FSO BFSL
Burst pressure	750.00 bar
Long-term stability max.	0.3 % FSO/year

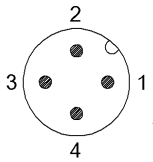
Measuring range	0...250 bar
Overload pressure	400 bar
Repeat accuracy	≤ ± 0.2 % FSO
Resolution	≤ 12 bits
Sampling rate	1 ms

Remarks

vacuum-tight
Permissible burden on analog output Rmax = 330 Ohm
For 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