

Basic features

Approval/Conformity	CE cULus WEEE
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Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Electrical version	3-wire
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Current draw max.	20 mA
Load cycles	100 million
Operating voltage U _b	14...30 VDC
Protection class	III

Environmental conditions

Ambient temperature	-40...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
Interference immunity	EN 61000-6-2: 2005
Media temperature	-40...125 °C
Noise emission	EN 61326-2-3: 2006
Protection degree	IP67
Storage temperature	-40...85 °C
Temperature coefficient typ.	≤ ±0.5 % FSO/10K

Functional safety

MTTF (40 °C)	806 a
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Material

Connector housing, material	Nickel-plated brass
Gasket, material	Fluoroelastomer
Housing material	Stainless steel (1.4301)
Measuring cell, material	Ceramic Al ₂ O ₃
Process connection material	Stainless steel (1.4301)

Mechanical data

Process connection	G 1/2" (DIN 3852)
Tightening torque max.	10 Nm
Weight	120.00 g

Output/Interface

Analog output	Analog, voltage 0...10 V
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Range/Distance

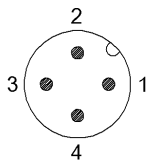
Accuracy	±0.5 % FSO BFSL
Burst pressure	10.00 bar
Long-term stability max.	0.3 % FSO/year
Measuring range	-1...2 bar
Overload pressure	4 bar
Resolution	≤ 14 bits
Sampling rate	1 ms

Remarks

vacuum-tight
Permissible burden on analog output $R_{min} = 10 \text{ k}\Omega$
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

