

Basic features

Approval/Conformity	CE cULus WEEE
Basic standard	EN 61326-1
Measuring principle	MEMS

Electrical connection

Connection	M12x1
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

Electrical data

Current draw max.	15 mA
Load resistance max., analog output	900 Ohm
Operating voltage U_b	10...30 VDC
Rated operating voltage U_e DC	24 V

Environmental conditions

Ambient temperature	-40...80 °C
EN 60068-2-27, Shock	yes
EN 60068-2-6, Vibration	yes
IP rating	IP67, IP69
Relative humidity	95 %, non-condensing
Storage temperature	-40...85 °C

Functional safety

MTTF (40 °C)	131 a
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Interface

Analog output	2x Analog, current 4...20 mA
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Material

Housing material	Plastic
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Mechanical data

Dimension	40 x 25 x 40 mm
Measuring axes	2
Mounting part	Threads
Rotation direction	Clockwise
Weight	45 g

Range/Distance

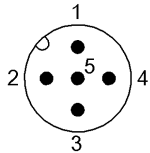
Accuracy	$\pm 1.0^\circ$
Resolution	$\leq 0.09^\circ$
Sampling rate	20 ms
Temperature drift max.	$\pm 0.8^\circ/10$ K

Remarks

Centering in a range of $\pm 5^\circ$ from horizontal is possible
For more information about MTTF and B10d see MTTF / B10d Certificate

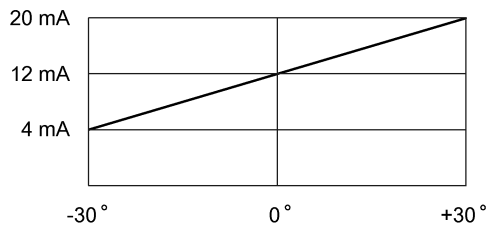
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



- PIN 1: Vcc
- PIN 2: Y 4..20 mA
- PIN 3: GND
- PIN 4: X 4..20 mA
- PIN 5: Centering

Technical Drawings



Output signal measuring range

Help Views

