

Basic features

Approval/Conformity	CE cULus EAC 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.	$\pm 0.8^\circ/10\text{ K}$

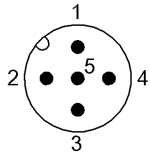
Remarks

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

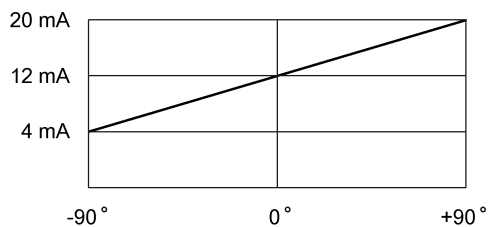
PIN 2: Y 4..20 mA

PIN 3: GND

PIN 4: X 4..20 mA

PIN 5: Centering

Technical Drawings



Output signal measuring range

Help Views

