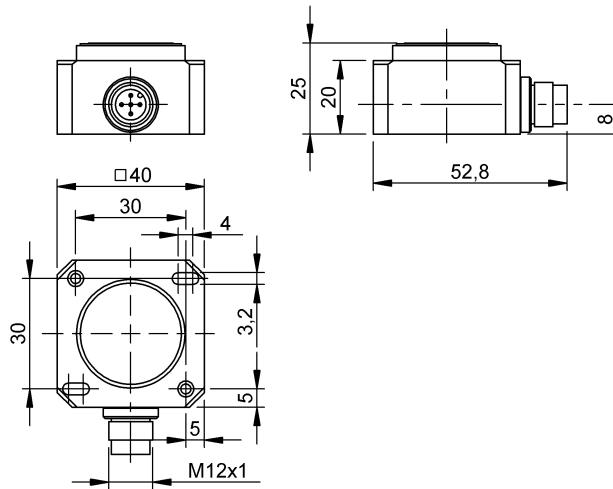




Basic features

Approval/Conformity	CE UKCA 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 min., analog output	20 kOhm
Operating voltage U_b	6...30 VDC
Rated operating voltage U_e DC	24 V

Environmental conditions

Ambient temperature	-40 °C...80 °C
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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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

Output/Interface

Analog output	2x Analog, voltage 0.5...4.5 V
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Range/Distance

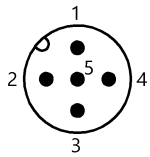
Accuracy	±1.0°
Resolution	≤ 0.1 °
Sampling rate	20 ms
Temperature drift max.	±0.8°/10 K

Remarks

Centering in a range of $\pm 5^\circ$ from horizontal is possible
The sensor is inherent sensitive for accelerations/vibrations.
Application specific testing must be carried out to check whether this sensor will fulfil the requirements.
For more information about MTTF and B10d see MTTF / B10d Certificate

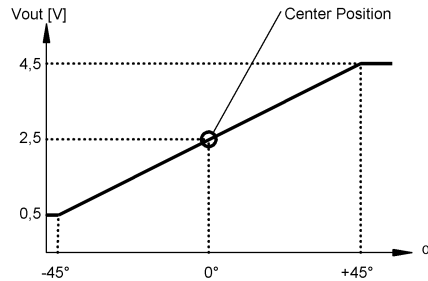
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



PIN 1: Supply voltage +
PIN 2: Output Y
PIN 3: GND
PIN 4: Output X
PIN 5: Centering

Technical Drawings



Output signal measuring range