

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	12...30 VDC
Protection class	III
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	1 s

Environmental conditions

Ambient temperature	-25...85 °C
Contamination scale	3
EN 60068-2-27, Shock	yes
EN 60068-2-6, Vibration	yes
Protection degree	IP67
Relative humidity	95 %, non-condensing
Storage temperature	-40...85 °C

Functional safety

MTTF (40 °C)	263 a
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General data

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

Material

Housing material	Plastic
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Mechanical data

Dimension	40 x 25 x 50 mm
Measuring axes	1
Mounting	Screws
Rotation direction	Clockwise
Weight	45.00 g

Output/Interface

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

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

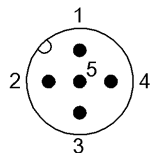
Remarks

Can be centered over 360° in the vertical position

For more information about MTTF and B10d see MTTF / B10d Certificate

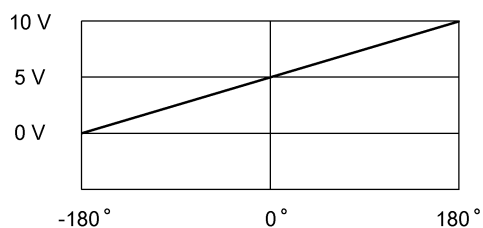
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector view



PIN 1: Vcc
 PIN 2: n.c.
 PIN 3: GND
 PIN 4: 0..10 V
 PIN 5: Centering

Diagram



Output signal measuring range

