

1) not included in scope of delivery 2) Non-usable area 3) Nominal length = Measuring length 10) Null point 11) Installation length



Display/Operation

Error signal Ia falling	≤ 3.2 mA
Error signal Ua falling	≤ 0 V
Error signal Ua rising	≥ 10.2 V

Electrical connection

Connection	Connector, M16x0.75, 8-pole
Connection version	axial

Electrical data

Current consumption max. at 24 V DC	150 mA
Galvanic isolation	yes
Inrush current	≤ 3 A/0.5 ms
Operating voltage Ub	20...28 VDC
Output signal adjustable	no
Overvoltage protection	yes
Polarity reversal protected	yes
Voltage-proof up to (GND to housing)	500 V DC

Environmental conditions

Ambient temperature	-40...85 °C
EN 55016-2-3, Radiation	Industrial areas
EN 60068-2-27, Continuous shock	100 g, 2 ms
EN 60068-2-27, Shock	100 g, 6 ms
EN 60068-2-6, Vibration	12 g, 10...2000 Hz
EN 61000-4-2, ESD	Severity Level 3
EN 61000-4-3, RFI	Severity Level 3
EN 61000-4-4, Burst	Severity Level 3
EN 61000-4-5, Surge	Severity Level 2
EN 61000-4-6, High-frequency fields	Severity Level 3

EN 61000-4-8, Magnetic fields

IP rating

Relative humidity

Storage temperature

Severity Level 4

IP67 with connector

≤ 90 %, non-condensing

-40...100 °C

Functional safety

MTTF (40 °C)	77 a
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General data

Approval/Conformity	CE cULus EAC
Magnets, number (factory setting)	1
Magnets, number max.	1

Material

Housing material	Aluminum
Housing material, surface protection	anodized

Mechanical data

Fastening detail	Mounting clamps
Installation length	646 mm
Null point	73.0 mm

Output/Interface

Analog output	Analog, current, 20...4 mA
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Range/Distance

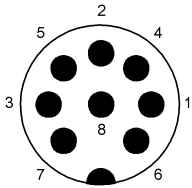
Measuring length	500 mm
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Non-linearity max.	±100 µm
Repeat accuracy	≤ ±0.2 µA
Reproducibility	≤4 µm
Resolution	≤ 0.2 µA
Sampling rate, length-dependent	1 kHz, standard

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Connector view



Wiring Diagram

Pin	
1	20...4 mA
2	GND output
3	NC
4	NC
5	NC
6	GND
7	+24 V DC
8	NC