



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



Basic features

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

Electrical connection

Bending radius min., fixed cable	5 x D
Bending radius min., flexible cable	15 x D
Cable diameter D	6...6.7 mm
Cable length L	10 m, drag chain compatible
Connection	Cable, 10.00 m, PUR
Connection version	axial
Polarity reversal protected	Ub up to 28 V

Electrical data

Current consumption max. at 24 V DC	150 mA
Error signal Ia rising	≥ 20.4 mA
Error signal Ua falling	≤ 0 V
Error signal Ua rising	≥ 10.2 V
Galvanic isolation	yes
Inrush current	≤ 3 A/0.5 ms
Operating voltage Ub	20...28 VDC
Output signal adjustable	no
Overvoltage protection	Ub up to 28 V
Voltage-proof up to (GND to housing)	500 V DC

Environmental conditions

Ambient temperature	-40...85 °C
Cable temperature, fixed routing	-40...90 °C
Cable temperature, flexible routing	-5...90 °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	Severity Level 4
IP rating	IP67
Relative humidity	≤ 90 %, non-condensing
Storage temperature	-40...100 °C
Temperature coefficient typ.	≤ 35 ppm/K at 50% of nominal stroke 500mm

Functional safety

MTTF (40 °C)	77 a
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Interface

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

Cable flame-resistant	IEC 60332-1
Cable jacket, material	PUR
Cover material	Aluminium, Die-cast, nickel plated
Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized

Range/Distance

Measuring length	1000 mm
Non-linearity max.	±0.02 % FS
Repeat accuracy	≤ ± 0.2 µA
Repeatability	≤4 µm
Resolution	≤ 0.2 µA
Sampling rate, length-dependent	1 kHz, standard

Mechanical data

Mounting part	Mounting clamps
Null point	73.0 mm
Overall Length	1146 mm

Wiring Diagrams (Schematic)

colour	
YE	4...20 mA
GY	GND output
PK	NC
GN	NC
BU	GND
BN	+24 V DC
WH	NC