

1) not included in scope of delivery, 2) Non-usable area, 3) Nominal length = Measuring length



**Basic features**

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

**Electrical connection**

Connection	Connector, M12x1, 8-pin
Connection version	axial
Polarity reversal protected	Ub up to 36 V

**Electrical data**

Current consumption max. at 24 V DC	100 mA
Error signal Ua falling	≥ 10.2 V
Error signal Ua rising	≥ 10.2 V
Galvanic isolation	no
Inrush current	≤ 3 A/0.5 ms
Operating voltage Ub	20...28 VDC
Output current max.	5 mA
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	0...70 °C
EN 55016-2-3, Radiation	For industrial and residential use
EN 60068-2-27, Continuous shock	50 g, 2 ms
EN 60068-2-27, Shock	50 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
Protection degree	IP67 with connector
Relative humidity	≤ 90 %, non-condensing
Storage temperature	-40...100 °C
Temperature coefficient typ.	≤ 30 ppm/K at 50% of nominal stroke 500mm

**Functional safety**

MTTF (40 °C)	84 a
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**Material**

Cover material	Zinc, Die casting
Housing material	Aluminum, Anodized
Housing material, surface protection	Anodized

## Mechanical data

Installation length	273 mm
Mounting	Mounting clamps
Null point	73.0 mm
Profile diameter	30.0 mm

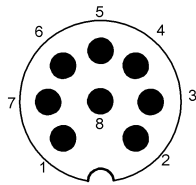
## Output/Interface

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

Measuring length	127 mm
Non-linearity max.	±200 µm
Repeat accuracy	≤ ± 10 µm
Reproducibility	≤10 µm
Resolution	≤ 20 µm
Sampling frequency max.	1000 Hz

## Connector Drawings



## Wiring Diagrams

Pin	
1	GND output
2	GND output
3	10...0 V
4	NC
5	0...10 V
6	GND
7	+24 V DC
8	NC