

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 max.	4

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	90 mA
Galvanic isolation	no
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	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
IP rating	IP67, with connector
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)	135 a
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Interface

Active flank	Rising/falling
DPI/IP protocol	yes
Interface	Start/Stop Start/Stop negative

Material

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

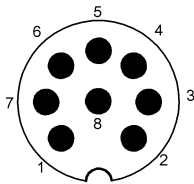
Range/Distance

Measuring length	3400 mm
Non-linearity max.	±0.04 % FS
Repeat accuracy	≤ 10 µm
Repeatability	≤10 µm
Resolution	≤ 10 µm
Sampling frequency max.	250 Hz

Mechanical data

Minimum distance of the magnets	65 mm
Mounting part	Mounting clamps
Null point	73.0 mm
Profile diameter	30.0 mm

Connector Drawings



Wiring Diagrams (Schematic)

Pin	
1	INIT
2	START/STOP
3	$\overline{\text{INIT}}$
4	NC
5	START/STOP
6	GND
7	+24 V DC
8	NC