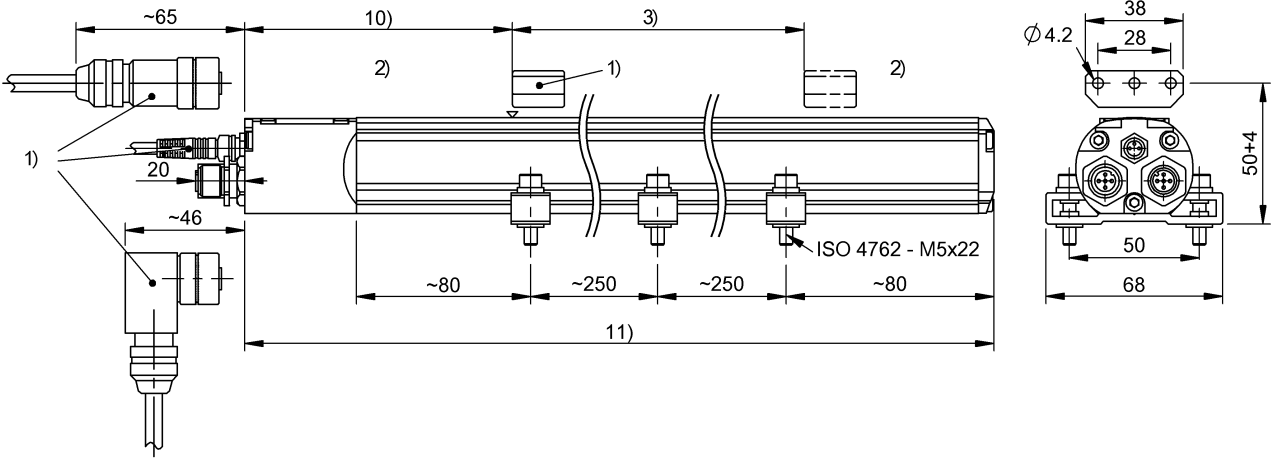




1) not included in scope of delivery, 2) Non-usable area, 3) Nominal length = Measuring length, 10) Null point, 11) Installation length



Basic features

Approval/Conformity	CE cULus EAC WEEE
Magnets, number max.	4

Electrical connection

Connection	Connector, M8x1, 5-pin
Connection 1	M8x1, 5-pin
Connection 2	M12x1, 3-pin
Connection 3	M12x1
Connection version	axial
Polarity reversal protected	Ub up to 28 V

Electrical data

Current consumption max. at 24 V DC	100 mA
Galvanic isolation	yes
Inrush current	≤ 3 A/0.5 ms
Operating voltage Ub	20...28 VDC
Output signal adjustable	with software tool
Overvoltage protection	Ub up to 28 V
Voltage-proof up to (GND to housing)	500 V DC

Environmental conditions

Ambient temperature	-40...85 °C
EN 55016-2-3, Radiation	For industrial and residential use
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, 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)	56 a
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Interface

Baud rate	500 kBaud
Interface	DeviceNet CIP2.1

Material

Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized

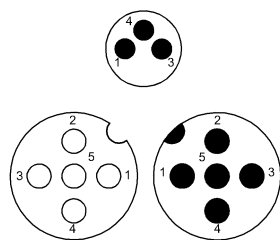
Mechanical data

Minimum distance of the magnets	65 mm
Mounting part	Mounting clamps
Null point	106.0 mm

Range/Distance

Non-linearity max.	±30 µm
Repeat accuracy	± 1 LSB
Repeatability	±1 LSB
Resolution	≤ 5 µm
Resolution min., traverse speed	0.1 mm/s
Sampling rate, length-dependent	1 kHz, standard

Connector Drawings



Wiring Diagrams (Schematic)

Pin	
1	shield
2	V+
3	V-
4	CAN_HIGH
5	CAN_LOW

Pin	
1	+24 V DC
3	GND
4	shield of supply