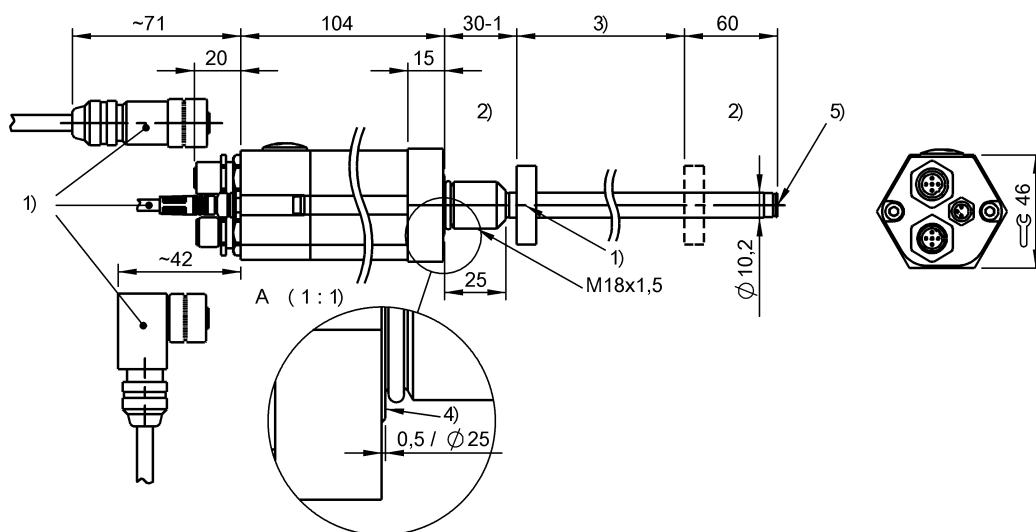




1) not included in scope of delivery, 2) Non-usable area, 3) Nominal length = Measuring length, 4) Mounting surface, 5) Internal threads M4x4/6 deep



Basic features

Approval/Conformity	CE cULus EAC WEEE
Magnets, number max.	1

Electrical connection

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

Electrical data

Current consumption max. at 24 V DC	130 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	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
Protection degree	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)	59 a
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Material

Housing material	Aluminum
Housing material, surface protection	Anodized
Material flange	Stainless steel (1.3952)
O-ring material	Fluoroelastomer
Protection tube material	Stainless steel (1.4571)

Mechanical data

Mounting	Threaded flange M18x1.5
Null point	30.0 mm
Pressure rating max.	600 bar
Protection tube diameter	10.2 mm

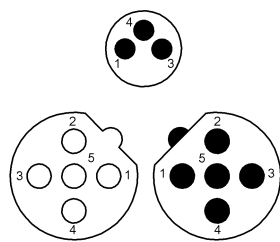
Output/Interface

Interface	Profibus DP
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Range/Distance

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

Connector Drawings



Wiring Diagrams

Pin		Pin	
1	VP +5 V	1	+24 V DC
2	RxD/TxD-N (A)	3	GND
3	DATA GND	4	shield of supply
4	RxD/TxD-P (B)		
5	shield PROFIBUS-DP		