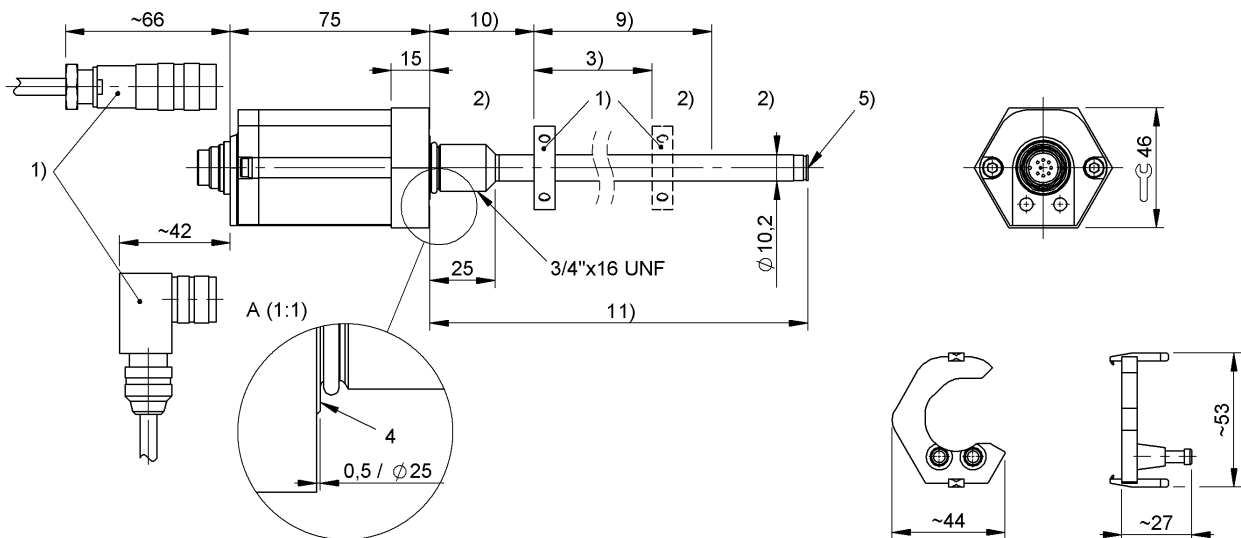




1) not included in scope of delivery, 2) Non-usable area, 3) Measuring length, 4) Mounting surface, 5) Internal threads M4x4/6 deep, 9) nominal length/order length, 10) Null point, 11) Installation length



Basic features

Approval/Conformity	CE cULus EAC WEEE
Base type	BTL5-E10-M...-Z-S32
Base type deviation	Measuring length = nominal length - 203mm
Magnets, number (factory setting)	1
Magnets, number max.	1

Electrical connection

Connection	Connector, M16x0.75, 8-pin
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	3.6 mA
Galvanic isolation	no
Inrush current	≤ 3 A/0.5 ms
Operating voltage Ub	20...28 VDC
Output signal adjustable	with calibration aid
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
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

Interface

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

Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized
Material flange	1.3952 stainless steel
O-ring material	FKM
Protection tube material	1.4571 stainless steel

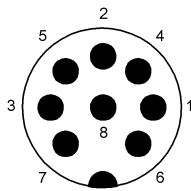
Mechanical data

Installation length from contact surface	1864 mm
Mounting part	Threaded flange 3/4-16UNF
Null point	50.8 mm
Pressure rating max.	600 bar
Protection tube diameter	10.2 mm
Tightening torque max.	100 Nm

Range/Distance

Measuring length	1550 mm
Non-linearity max.	±0.02 % FS
Repeat accuracy	≤ ± 0.66 µA
Repeatability	≤5 µm
Resolution	≤ 0.66 µA
Sampling rate, length-dependent	1 kHz, standard

Connector Drawings



Wiring Diagrams (Schematic)

Pin	
1	4...20 mA
2	GND output
3	NC
4	NC
5	NC
6	GND
7	+24 V DC
8	NC