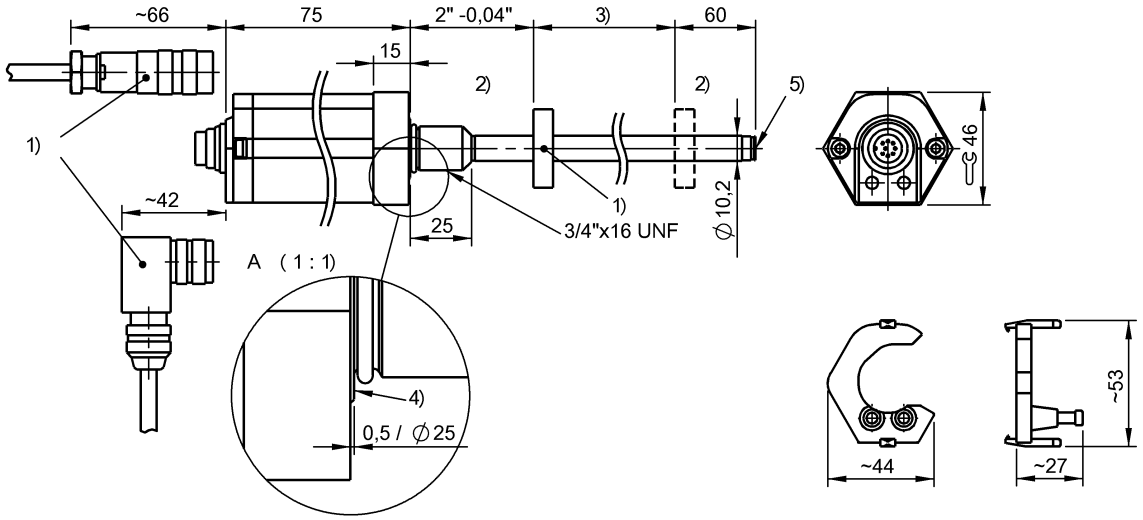
BTL5-E10-M0051-ZM-S32
BTL054U



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

Display/Operation

Error signal Ia rising	3.6 mA

Electrical connection

Connection version	axial
Polarity reversal protected	yes

Electrical data

Current consumption max. at 24 V DC	150 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	yes
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 type IEC 60529	IP67 with connector
Relative humidity	≤ 90 %, non-condensing
Storage temperature	-40…100 °C

General data

Approval/Conformity	CE cULus
Position encoders, number max.	1

Material

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

Mechanical data

Fastening detail	Threaded flange 3/4-16UNF
Housing diameter	51.00 mm
Installation length from contact surface	162 mm
Null point	50.8 mm
Pressure rating max.	600 bar
Protection tube diameter	10.2 mm

Range/Distance

Non-linearity max.	±100 µm
Repeat accuracy	≤ ±0.66 µA
Reproducibility	≤5 µm
Resolution	≤ 0.66 µA
Sampling rate, length-dependent	1 kHz, standard

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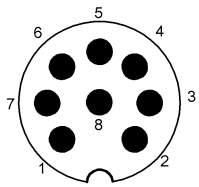
Connector view



Wiring Diagram

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