



Basic features

Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Magnets, number (factory setting)	1

Electrical connection

Connection version	axial
Polarity reversal protected	Ub up to 36 V
Short-circuit protection	to GND and to 36 V DC

Magnetostrictive Sensors
BTL7-A/C/E/G-MXXXX ROD (MV)
Order Code: BTL



Electrical data

Current consumption max. at 24 V DC	150 mA
Galvanic isolation	no
Output current max.	5 mA
Overvoltage protection	Ub up to 36 V
Voltage-proof up to (GND to housing)	500 V AC

Environmental conditions

Ambient temperature	-40...85 °C
EN 55016-2-3, Radiation	For industrial and residential use
EN 60068-2-27, Continuous shock	150 g, 2 ms
EN 60068-2-27, Shock	150 g, 6 ms
EN 60068-2-6, Vibration	20 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
Relative humidity	≤ 90 %, non-condensing
Storage temperature	-40...100 °C
Temperature coefficient typ.	≤ 30 ppm/K at 50% of nominal stroke 500mm

Functional safety

MTTF (40 °C)	98 a
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Interface

Analog output	2x Analog, voltage
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Material

Cover material	Aluminium, Die-cast, nickel plated
Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized
Material flange	1.3960 stainless steel
O-ring material	FKM
Plug material	1.4571 stainless steel
Protection tube material	1.4571 stainless steel

Mechanical data

Tightening torque max.	100 Nm
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Range/Distance

Repeat accuracy	± 10 µm
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