



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, 6) Null point, 7) Installation length, 8) 1/2" - 14 NPT (cable entry), 9) 15/16" or 24 mm wrench, 10) External Housing GND, 11) Cover fastening screw, 12) O-ring, 12) Cable fitting/ATEX approved, 13) Part label, metal, 14) PUR cable, flame-resistant

Basic features

Magnets, number max.	4
Electrical connection	
Bending radius min., fixed cable	6 x D
Bending radius min., flexible cable	5 x D
Cable diameter D	9.6...10 mm
Cable length L	5 m, Drag chain compatible
Connection	Cable, 5.00 m, PUR
Connection version	radial
Polarity reversal protected	Ub up to 28 V

Electrical data

Current consumption max. at 24 V DC	120 mA
Galvanic isolation	no
Inrush current	≤ 3 A/0.5 ms
Operating voltage Ub	20...28 VDC
Overvoltage protection	Ub up to 28 V
Voltage-proof up to (GND to housing)	500 V DC

Environmental conditions

Ambient temperature	-40...80 °C
Cable temperature, fixed routing	-40...80 °C
EN 55016-2-3, Radiation	For industrial and residential use
EN 60068-2-27, Continuous shock	100 g, 2 ms
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	IP68
Relative humidity	≤ 90 %, non-condensing
Storage temperature	-50...100 °C
Temperature coefficient typ.	≤ 35 ppm/K at 50% of nominal stroke 500mm

Interface

Interface	Profibus DP
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Magnetostrictive Sensors
BTL5-T110-M1600-J-DEXC-K05
Order Code: BTL0ZP5



Material

Cable jacket, material	PUR
Housing material	Stainless steel (1.4404)
Material flange	Stainless steel (1.4404)
O-ring material	FKM
Protection tube material	Stainless steel (1.4571)

Mechanical data

Housing diameter	88.00 mm
Installation length from contact surface	1728 mm
Null point	50.8 mm
Pressure rating max.	600 bar
Protection tube diameter	10.2 mm
Tightening torque	3.5 Nm

Range/Distance

Non-linearity max.	±30 µm
Repeat accuracy	± 2 LSB
Reproducibility	±2 LSB
Sampling rate, length-dependent	1 kHz, standard

Wiring Diagrams

Color	
RD	RxD/TxD-N
GN	RxD/TxD-P
BU	GND
BK	+24V DC
GN/YE	Hsg GND

Help Views

