






Current consumption max. at 24 V DC	150 mA
Error signal Ua falling	≤ -1 V
Error signal Ua rising	≥ 11 V
Galvanic isolation	yes
Inrush current	≤ 3 A/0.5 ms
Operating voltage Ub	20...28 VDC
Output current max.	5 mA
Output signal adjustable	no
Overvoltage protection	Ub up to 28 V
Ripple Ua max.	5 mV
Voltage-proof up to (GND to housing)	500 V DC

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

MTTF (40 °C) 93 a

Analog output	Analog, voltage 0...10 V Analog, voltage 10...0 V
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Magnetostrictive Sensors
BTL5-A11-M1600-P-S32
Order Code: BTL00ZJ

BALLUFF

Material

Cover material	Aluminium, Die-cast, nickel plated
Housing material	Aluminium, Anodized
Housing material, surface protection	Anodized

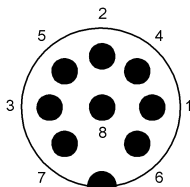
Mechanical data

Mounting part	Mounting clamps
Null point	73.0 mm
Overall Length	1746 mm

Range/Distance

Measuring length	1600 mm
Non-linearity max.	±0.02 % FS
Repeat accuracy	≤ 0.1 mV
Repeatability	≤4 µm
Resolution	≤ 0.1 mV
Sampling rate, length-dependent	1 kHz, standard

Connector Drawings



Wiring Diagrams (Schematic)

Pin	
1	NC
2	GND output
3	10...0 V
4	NC
5	0...10 V
6	GND
7	+24 V DC
8	NC