



1) Not incl. in scope of del. 2) Unusable area 3) Nom. stroke = Meas. length 4) Mounting surface 5) Internal thread M4x4/6 deep

- Series Rod
- Analog interface, current



**General attributes**

Approvals / Conformity CE  
 cULus  
 IP67 (with connector)  
 Generation 7  
 No of magnets, factory setting 1 ST  
 Polarity reversal protected Up to 36 V  
 Short circuit protected to GND and to 36 V DC

**Electrical attributes**

Connection type Connector  
 Current draw (at 24 V DC) ≤ 150 mA  
 Error signal Ia rising 3.6 mA  
 For dynamic loop applications No  
 Inrush current ≤ 500 mA / 10 ms  
 Interface Analog interface, current  
 Interface group Analog  
 Load resistance RL max. ≤ 500 Ohm  
 Non-linearity max. ±0.01 % FS  
 Number of magnets max. 1 ST  
 Operating voltage UB max. DC [V] 28.0 V  
 Operating voltage UB min. DC [V] 20.0 V  
 Output signal 4...20 mA  
 Output signal adjustable With setup tool  
 Via programming inputs  
 Up to 36 V  
 No  
 20 ... 28 V DC, High-active  
 0.5 Vpp  
 500 V AC

**Mechanical attributes**

Nominal stroke 1,200 mm

Ambient temperature Ta max. 85 °C  
 Ambient temperature Ta min. -40 °C  
 Cable/connector out Axial  
 Connector type M16  
 E module 200 kN/mm<sup>2</sup>  
 EN55016-2-3 (emission) Indust. and residential area  
 EN60068-2-27 (shock) 150 g / 6 ms  
 EN60068-2-29 (contin. shock) 150 g / 2 ms  
 EN60068-2-6 (vibration) 20 g, 10...2000 Hz  
 EN60068-2-64 (noise) 20 g, 10...2000 HZ  
 EN61000-4-2 (ESD) Severity Level 3  
 EN61000-4-3 (RFI) Severity Level 3  
 EN61000-4-4 (Burst) Severity Level 3  
 EN61000-4-5 (Surge) Severity Level 2  
 EN61000-4-6 (HF fields) Severity Level 3  
 EN61000-4-8 (magnetic fields) Severity Level 4  
 Flange material Stainless steel 1.3952  
 Housing material Anodized aluminum  
 Mounting type Threaded flange M18x1.5  
 Null point 30.0 mm  
 Number of poles 8  
 O-ring material Viton  
 Offset mounting surface Yes  
 Outer tube material Stainless steel 1.4571  
 Pressure resistance ≤ 600 bar  
 Relative humidity < 90 %, non-condensing  
 Repeat accuracy ±5 µm  
 Storage temperature max. 100 °C  
 Storage temperature min. -40 °C  
 Style Series Rod  
 TK, typ. (at 50 % of 500 mm) ≤ 30 ppm/K  
 Version Type B  
 With O-ring Yes

Micropulse transducer  
**BTL7-E100-M1200-B-S32**  
**BTL06ZH**

**BALLUFF**  
sensors worldwide

Pin	
1	4...20 mA
2	0V
3	NC
4	La
5	NC
6	GND
7	+24 V DC
8	Lb

