



1) Not incl. in scope of del. 2) Unusable area 3) Nom. stroke = Meas. length

- Series Profile
- Analog interface, voltage



**General attributes**

Approvals / Conformity CE  
 cURus  
 Enclosure Type per IEC 60529 IP67 (with connector)  
 Generation Generation 6  
 Polarity reversal protected Up to 36 V

**Electrical attributes**

Connection type Connector  
 Current draw (at 24 V DC) ≤ 70 mA  
 Error signal U<sub>a</sub> falling ≥ 10.2 V  
 Error signal U<sub>a</sub> rising ≥ 10.2 V  
 For dynamic loop applications No  
 Inrush current ≤ 3 A / 0.5 ms  
 Interface Analog interface, voltage  
 Interface group Analog  
 Non-linearity max. ±200 μm  
 Operating voltage U<sub>B</sub> max. DC [V] 28.0 V  
 Operating voltage U<sub>B</sub> min. DC [V] 20.0 V  
 Output signal 0...10 V and 10...0 V  
 Overvoltage protected Yes  
 Potential isolation No  
 Ripple 0.5 V<sub>pp</sub>  
 Ripple U<sub>a</sub> max. 5 mV  
 Voltage resist (GND – housing) 500 V DC

**Mechanical attributes**

Nominal stroke 250 mm  
 Ambient temperature T<sub>a</sub> max. 70 °C  
 Ambient temperature T<sub>a</sub> min. 0 °C  
 Cable/connector out Axial  
 Connector type M12  
 EN55016-2-3 (emission) Class A+B

EN60068-2-27 (shock)  
 EN60068-2-29 (contin. shock)  
 EN60068-2-6 (vibration)  
 EN60068-2-64 (noise)  
 EN61000-4-2 (ESD)  
 EN61000-4-3 (RFI)  
 EN61000-4-4 (Burst)  
 EN61000-4-5 (Surge)  
 EN61000-4-6 (HF fields)  
 EN61000-4-8 (magnetic fields)  
 Housing material  
 Mounting type  
 Nominal stroke  
 Null point  
 Number of poles  
 Relative humidity  
 Repeat accuracy  
 Resolution  
 Sampling rate (length-depend.)  
 Storage temperature max.  
 Storage temperature min.  
 Style  
 TK, typ. (at 50 % of 500 mm)  
 Version

50 g / 6 ms  
 50 g / 2 ms  
 12 g, 10...2000 Hz  
 5 g, 10...2000 Hz  
 Severity Level 3  
 Severity Level 3  
 Severity Level 3  
 Severity Level 2  
 Severity Level 3  
 Severity Level 4  
 Anodized aluminum  
 Mounting clamps  
 250 mm  
 73.0 mm  
 8  
 < 90 %, non-condensing  
 ≤ 10 μm  
 ≤ 10 μm  
 1 kHz, standard  
 100 °C  
 -40 °C  
 Series Profile  
 ≤ 35 ppm/K  
 Type A1

**Remarks**

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Micropulse transducer

**BTL6-A110-M0250-A1-S115**  
**BTL002F**

**BALLUFF**  
*sensors worldwide*

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

