



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

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

**Characteristic data**

Output signal 0...10 V and 10...0 V  
 Connection Connector, M16  
 Operating voltage 20...28 V DC

**Electrical data**

Ripple 0.5 Vpp  
 Current consumption (at 24 V DC) ≤ 150 mA  
 Inrush current ≤ 500 mA / 10 ms  
 Overvoltage protected Up to 36 V  
 Voltage-proof (GND – housing) 500 V AC  
 Error signal output 2 -0.5 V  
 Galvanic isolation No  
 Output signal adjustable Via programming inputs  
 With setup tool  
 Error signal output 1 10.5 V  
 Number of magnets max. 1  
 For dynamic loop applications No  
 Programming inputs 20 ... 28 V DC, High-active

**Mechanical data**

Type Type B  
 Mounting type Threaded flange M18x1.5  
 Pressure resistance ≤ 600 bar  
 Connector type M16  
 Cable/connector out Axial  
 Number of pins 8  
 Housing material Anodized aluminum

Flange material Stainless steel 1.3952  
 Outer tube material Stainless steel 1.4571  
 Outer tube wall thickness 2 mm  
 O-ring material Viton  
 Repeat accuracy ±10 µm  
 TK, typ. (at 50% of 500 mm) ≤ 30 ppm/K  
 Ambient temperature Ta min. -40 °C  
 Ambient temperature Ta max. 85 °C  
 Storage temperature min. -40 °C  
 Storage temperature max. 100 °C  
 Relative humidity < 90%, non-condensing  
 E module 200 kN/mm<sup>2</sup>  
 Offset mounting surface Yes  
 Plug, length 5.5 mm  
 Plug, with internal thread M4 Yes  
 With O-ring Yes  
 Null point 30 mm

**Basic data**

Short-circuit protected to GND and to 36 V DC  
 Protected against polarity reversal Up to 36 V  
 Degree of protection as per IEC 60529 IP67 (with connector)  
 EN 60068-2-27 (shock) 150 g / 6 ms  
 EN 60068-2-29 (cont. shock) 150 g / 2 ms  
 EN 60068-2-6 (vibration) 20 g, 10...2000 Hz  
 EN 60068-2-64 (noise) 5 g, 10...2000 Hz  
 EN 55016-2-3 (emission) Class A+B  
 EN 61000-4-2 (ESD) Severity Level 3  
 EN 61000-4-3 (RFI) Severity Level 3

**BTL7-A110-M0400-B-S32**  
**Ordering code: BTL06WM**

**Micropulse transducers**  
**Series Rod**

**Output signal 0...10 V and 10...0 V**  
**Nominal stroke 400 mm**

**BALLUFF**  
*sensors worldwide*

EN 61000-4-4 (burst)	Severity Level 3
EN 61000-4-5 (surge)	Severity Level 2
EN 61000-4-6 (HF fields)	Severity Level 3
EN 61000-4-8 (magnetic fields)	Severity Level 4
Approvals	CE, cURus

**Remarks**

