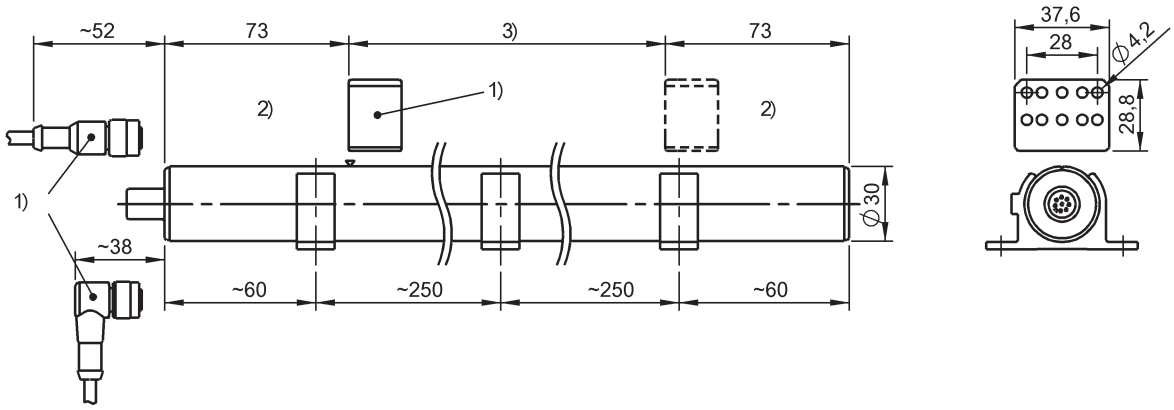
Micropulse transducer

BTL6-A110-M0050-A1-S115
Order code: BTL001W

BALLUFF
sensors worldwide



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
Current load capacity max.	5 mA
Error signal Ua falling	≥ 10.2 V
Error signal Ua 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 UB max. DC [V]	28.0 V
Operating voltage UB min. DC [V]	20.0 V
Output signal	0…10 V and 10…0 V
Overvoltage protected	Yes
Potential isolation	No
Ripple	0.5 Vpp
Ripple Ua max.	5 mV
Voltage resist (GND – housing)	500 V DC

Mechanical attributes

Nominal stroke	50 mm
Ambient temperature Ta max.	70 °C
Ambient temperature Ta min.	0 °C
Cable/connector out	Axial
Connector type	M12
EN55016-2-3 (emission)	Class A+B
EN60068-2-27 (shock)	50 g / 6 ms
EN60068-2-29 (contin. shock)	50 g / 2 ms
EN60068-2-6 (vibration)	12 g, 10…2000 Hz
EN60068-2-64 (noise)	5 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
Housing material	Anodized aluminum
Mounting type	Mounting clamps
Nominal stroke	50 mm
Null point	73.0 mm
Number of poles	8
Relative humidity	< 90 %, non-condensing
Repeat accuracy	≤ 10 µm
Resolution	≤ 10 µm
Sampling rate (length-depend.)	1 kHz, standard
Storage temperature max.	100 °C
Storage temperature min.	-40 °C
Style	Series Profile
TK, typ. (at 50 % of 500 mm)	≤ 35 ppm/K
Version	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.

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