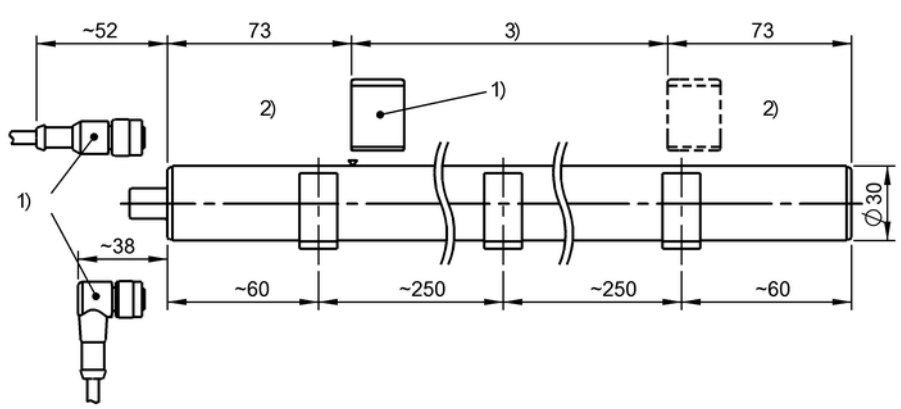
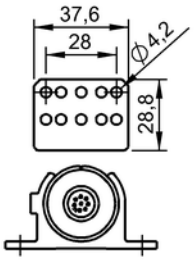
BTL6-P111-M0300-A1-S115
Ordering code: BTL00E6

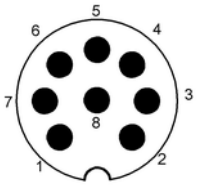
Micropulse transducers
Series Profile

Output signal Start/Stop and Start/Stop neg.
Nominal stroke 300 mm





Pin	
1	INIT
2	START/STOP
3	$\overline{\text{INIT}}$
4	NC
5	$\overline{\text{START/STOP}}$
6	GND
7	+24 V DC
8	NC



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

Characteristic data

Output signal	Start/Stop and Start/Stop neg.
Connection	Connector, M12
Operating voltage	20...28 V DC
Multi-magnet technology	yes

Electrical data

Ripple	0.5 Vpp
Current consumption (at 24 V DC)	≤ 90 mA
Inrush current	≤ 3 A / 0.5 ms
Overvoltage protected	Yes
Voltage-proof (GND – housing)	500 V DC
Start/stop pulse, level	+5 V RS 485/422 driver
Galvanic isolation	No
Non-linearity (Lin1)	±200 µm
Active flank	rising / falling
DPI/IP protocol	Yes
Start/stop pulse, level	3 - 5 µs
Number of magnets max.	4
For dynamic loop applications	No

Mechanical data

Version	Type A1
Mounting type	Mounting clamps
nominal stroke max.	3250 mm
Connector type	M12
Cable/connector out	Axial
Number of pins	8
Housing material	Anodized aluminum
Resolution	≤ 10 µm
Repeat accuracy	≤ 10 µm
TK, typ. (at 50% of 500 mm)	≤ 35 ppm/K
Ambient temperature Ta min.	0 °C
Ambient temperature Ta max.	70 °C
Storage temperature min.	-40 °C
Storage temperature max.	100 °C
Relative humidity	< 90%, non-condensing
Null point	73 mm

Basic data

Protected against polarity reversal	Up to 36 V
Enclosure Type per IEC 60529	IP67 (with connector)
EN 60068-2-27 (shock)	50 g / 6 ms
EN 60068-2-29 (cont. shock)	50 g / 2 ms
EN 60068-2-6 (vibration)	12 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
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

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BTL6-P111-M0300-A1-S115
Ordering code: BTL00E6

Micropulse transducers
Series Profile

BALLUFF
sensors worldwide

Remarks

Additional features	with DPI/IP-protocol