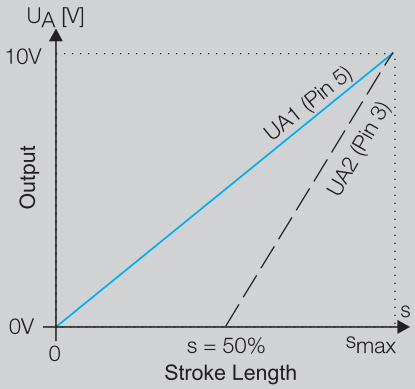
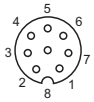
Series	**BTL6 Profile A1**
Output Signal	Analog Voltage, Programmable
Transducer Interface	**A**



Ordering Code	**BTL6-A301-M____-A1-S115**
Output Voltage (U_A)	**0...10 V programmable**
Load Current	max. 5 mA
Max. Ripple	≤ 5 mV
System Resolution	≤ 10 µm
Repeatability	≤ 10 µm
Repeat Accuracy	≤ 20 µm
Sampling Rate	fSTANDARD = 1 kHz (< 850 mm)
Non-linearity	≤ ±200 µm to 500 mm nominal stroke typ. ±0.02 %, max. ±0.04 % 500...1500 mm nominal stroke
Supply Voltage	18...30 Vdc
Current Draw	≤ 100 mA
Polarity Reversal Protected	yes
Operating Temperature	0 to +158 °F
Storage Temperature	–40 to +212 °F

Pin Assignments	Pin	Color*	BTL6-**A301**...
Output Signals	1	YE	Programming input (a)
	2	GY	Analog common
	3	PK	Output 2, 0-10 V programmable
	4	RD	Programming input (b)
	5	GN	Output 1, 0-10 V programmable
Supply Voltage	6	BU	Supply GND
	7	BN	+24 Vdc supply
	8	WH	Not used — Do not connect

Connect shield to housing,
Pin 8 (WH) must remain unconnected.
*Connector BKS-S115/BKS-S116

Please enter code for nominal stroke in ordering code

Included:
– Transducer
– User's guide

Please order separately:
Magnets ..... pg 100
Mounting clamps/cuff ..... pg 100
Connectors ..... pg 101

Ordering example:

BTL6-A301-M_ _ _ _-A1-S115

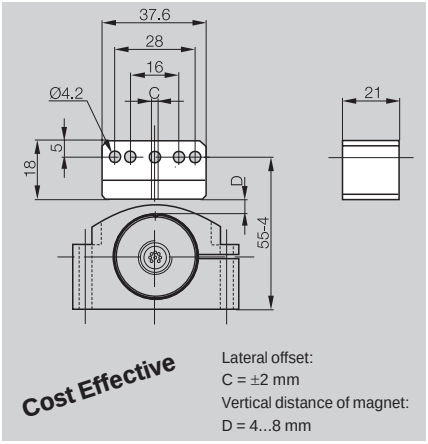
Output signal

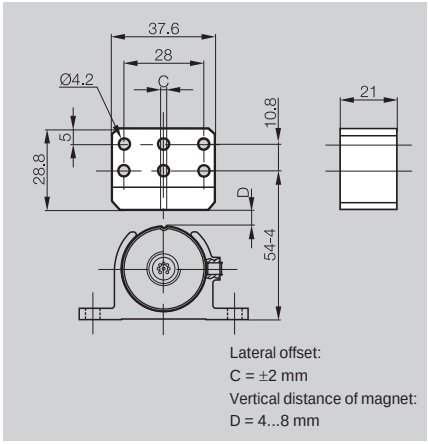
2 analog outputs
Single or differential-measurement, rising, falling, zero and end point programmable

Standard nominal strokes [mm]

0050, 0100, 0130, 0150, 0175, 0200, 0225, 0250, 0300, 0350, 0360, 0400, 0450, 0500, 0550, 0600, 0650, 0700, 0750, 0800, 0900, 0950, 1000, 1100, 1200, 1250, 1300, 1400, 1500, on request in 25 mm increments for high quantities only

Description	**Magnet**	**Magnet**
Series	BTL6 Profile A1	BTL6 Profile A1





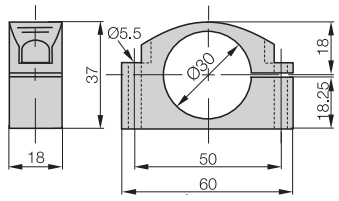
Ordering Code	**BTL6-A-3801-2**	**BTL6-A-3800-2**
Housing Material	Plastic	Plastic
Weight	ca. 25 g	ca. 30 g
Magnet Traverse Speed	any	any
Operating Temperature/Storage Temperature	–40...+85 °C	–40...+85 °C
Included	Magnet	Magnet

The BTL6-A-3800-2 magnet can be operated at a distance of 4...8 mm from the top surface of the profile housing.

Together with mounting clamps BTL6-A-MF01-A-50 or mounting cuff BTL6-A-MF03-K-50 the mechanical installation is compatible to series BTL5-...-P-S 32 with magnets BTL5-P-3800-2 or BTL5-P-5500-2 on page 71-72.

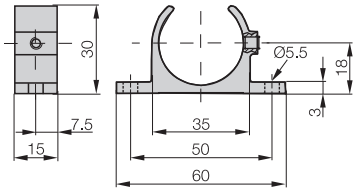
This means that both families of transducers can be interchanged without making any mechanical modifications.

Mounting clamps/cuff

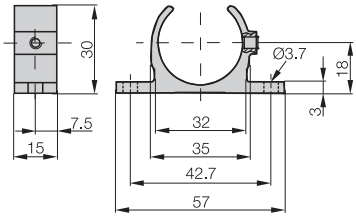


Cost Effective

Mounting cuff
Ordering code: **BTL6-A-MF03-K-50**
Includes: 1 cuff



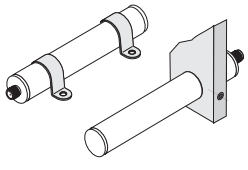
Mounting clamp
Ordering code: **BTL6-A-MF01-A-50**
Includes: 1 clamp



Mounting clamp
Ordering code: **BTL6-A-MF01-A-43**
Includes: 1 clamp

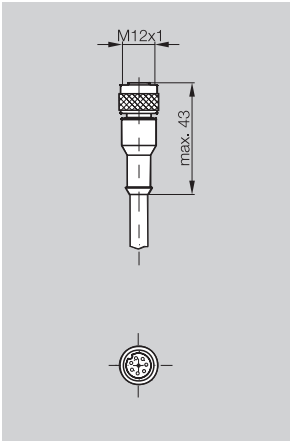
When extreme shock and vibration are present, we recommend spacing mounting clamps every 250 mm.

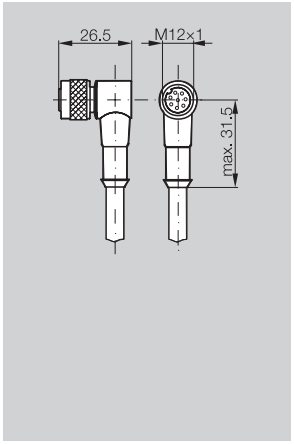
Length (stroke length)	No. of mounting clamps/cuffs
up to 250 mm	2
251 to 500 mm	3
501 to 750 mm	4
751 to 1000 mm	5
1001 to 1250 mm	6
1251 to 1500 mm	7

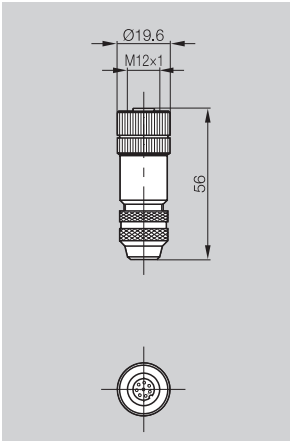


Custom mounting options

Connectors	**BKS-S115-PU-_ _**	**BKS-S116-PU-_ _**	**BKS-S115-00**
for Series	BTL6-_ _ _-S115	BTL6-_ _ _-S115	BTL6-_ _ _-S115
Type	8-pin, Straight, female	8-pin, Right angle, female	8-pin, female

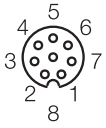






Ordering Code	**BKS-S115-PU-__**	**BKS-S116-PU-__**	**BKS-S115-00**
Screw Terminal			max. 0.75 mm²
Housing Material	PUR	PUR	CuZn nickel plated
Contacts	CuZn	CuZn	CuZn
Contact Finish	0.8 µm Au	0.8 µm Au	
Cable Strain Relief			PG 9
Accepts Cable Diameter			6...8 mm
Enclosure Rating per IEC 60529	IP 67	IP 67	IP 67 (when attached)
Knurled Coupling Ring	CuZn	CuZn	
Finish	2.5 µm Ni	2.5 µm Ni	
O-ring	Viton	Viton	Viton
Cable	Molded-on PUR		
No. of Wires × Conductor Cross Section	8 × 0.25 mm² + braided shield		
Type	LIYY-CF11Y		
Conductor Configuration	14 × 0,15 mm		
Outer Diameter	6,6 ±0,2 mm		
Min. Bending Radius	dynamic 4 × D, static 3 × D		

Please indicate cable length
in ordering code
02 = Length 2 m; 05 = Length 5 m;
10 = Length10 m; 15 = Length 15 m;
20 = Length 20 m; 25 = Length 25 m

Pin assignments	Pin	Color
	1	YE
	2	GY
	3	PK
	4	RD
	5	GN
	6	BU
View of	7	BN
female	8	WH