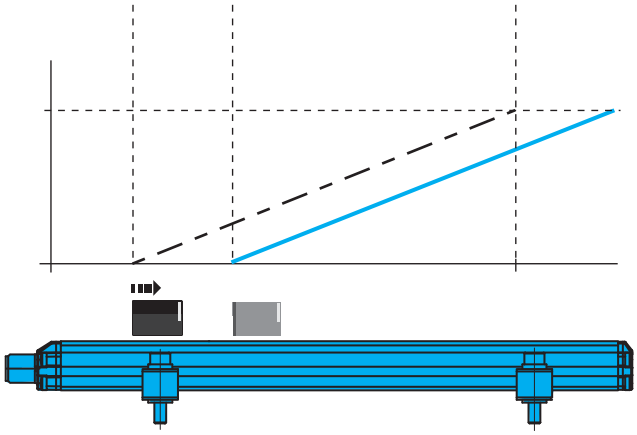
Output and measuring range setting
The measuring range and the output signal can be adapted to the relevant application requirements via programming inputs. In teach-in mode with inversion or reset function.

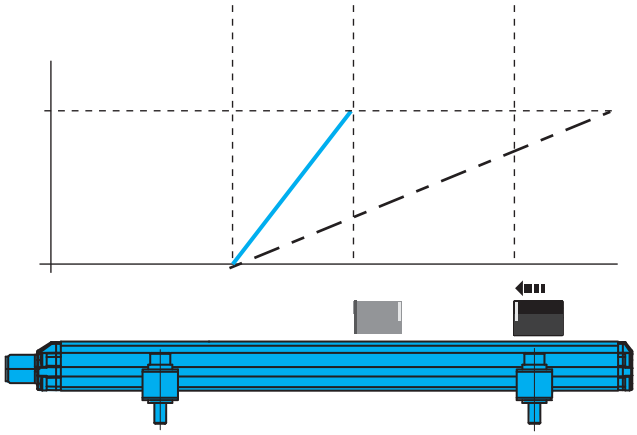
Measuring range adjustment via programming inputs L_a and L_b

1. Place magnet in new start position.



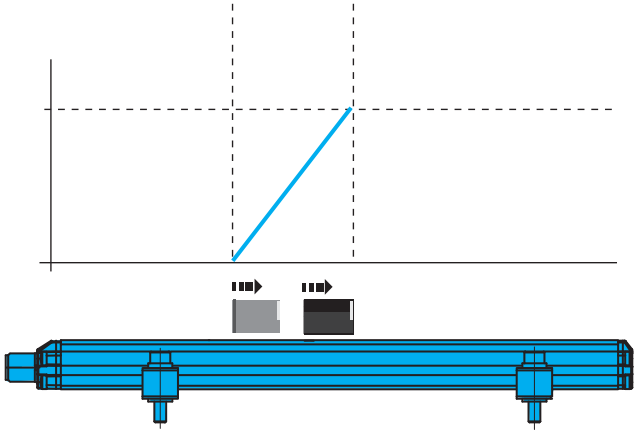
Adopting a new start position

2. Place magnet at new end position.



Adopting a new end position

3. The new measuring range



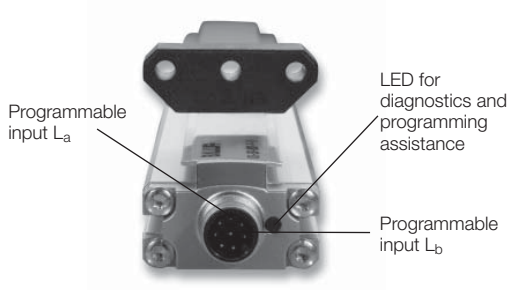
Series			
Output signal			
Transducer interface			
Input interface			
Part number			
Output voltage*			
Output current*			
Load current			
max. ripple			
Load resistance (recommended)			
System resolution			
Sampling rate			
max. non-linearity			
Temperature coefficient			
Operating voltage			
Current consumption			
Operating temperature			
Storage temperature range			
Pin assignments	Pin	Color	
Output signals	1	YE	
	2	GY	
	3	PK	
	4	RD	
	5	GN	
	8	WH	
Operating voltage	6	BU	
	7	BN	

■ Please enter the code for the output signal and the nominal stroke in the ordering code!

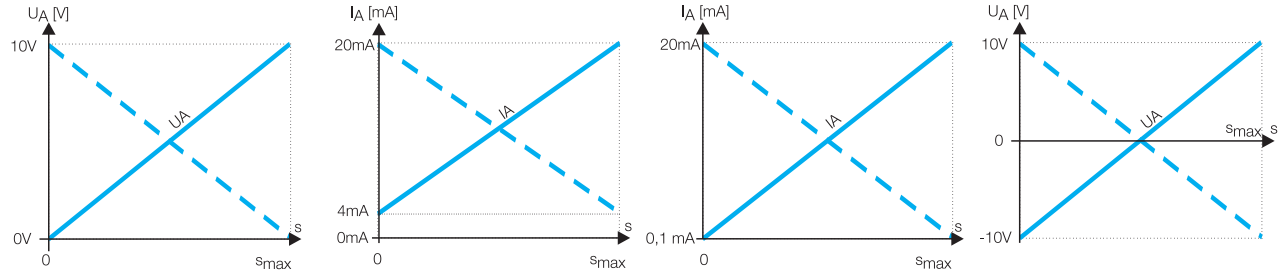
Preferred models interface A500 and E500
BTL6-A500-M_ _ _ _-PF-S115
BTL6-E500-M_ _ _ _-PF-S115
are available from stock in the nominal lengths highlighted in blue.

■ Included:
– Transducer
– Mounting clamps with isolation washers and screws
– Short user's guide

Please order separately:
Magnets from page 52
Connectors, page 156



	BTL6 profile PF	**BTL6 profile PF**	**BTL6 profile PF**	**BTL6 profile PF**
	analog	analog	analog	analog
	A	**E**	**C**	**G**
	analog	analog	analog	analog
	BTL6-**A**500-M_ _ _ _-PF-S115	BTL6-**E**500-M_ _ _ _-PF-S115	BTL6-**C**500-M_ _ _ _-PF-S115	BTL6-**G**500-M_ _ _ _-PF-S115
	0...10 V			–10...10 V
		4...20 mA	0.1...20 mA	
	max. 5 mA			max. 5 mA
	≤ 5 mV			≤ 5 mV
		≤ 500 ohms (500 ohms)	≤ 500 ohms (500 ohms)	
	≤ 0.35 mV	≤ 0.7 µA	≤ 0.7 µA	≤ 0.35 mV
	f_{max} = 2 kHz	f_{max} = 2 kHz	f_{max} = 2 kHz	f_{max} = 2 kHz
	±200 µm up to 500 mm nominal stroke	±200 µm up to 500 mm nominal stroke	±200 µm up to 500 mm nominal stroke	±200 µm up to 500 mm nominal stroke
	±0.04 % 500... max. nominal stroke	±0.04 % 500... max. nominal stroke	±0.04 % 500... max. nominal stroke	±0.04 % 500... max. nominal stroke
	30 ppm at 500 mm	30 ppm at 500 mm	30 ppm at 500 mm	30 ppm at 500 mm
	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
	≤ 150 mA	≤ 150 mA	≤ 150 mA	≤ 150 mA
	–25...+70 °C	–25...+70 °C	–25...+70 °C	–25...+70 °C
	–40...+100 °C	–40...+100 °C	–40...+100 °C	–40...+100 °C
	BTL6-**A**500...	BTL6-**E**500...	BTL6-**C**500...	BTL6-**G**500...
	0 V	0 V	0 V	0 V
	0 V Output	0 V Output	0 V Output	0 V Output
	L_a (programming input)	L_a (programming input)	L_a (programming input)	L_a (programming input)
	0...10 V	4...20 mA	0.1...20 mA	–10...10 V
	L_b (programming input)	L_b (programming input)	L_b (programming input)	L_b (programming input)
	GND	GND	GND	GND
	10...30 V	10...30 V	10...30 V	10...30 V



* Output signal can be inverted via programming inputs.

Ordering example:

BTL6-_500-M_ _ _ _-PF-S115

Output signal | **Standard nominal stroke [mm]**

A	0...10 V	0050, 0100, 0130, 0150, 0175, 0200,
E	4...20 mA	0225, 0250, 0300, 0350, 0360, 0400,
C	0.1...20 mA	0450, 0500, 0550, 0600, 0650, 0700,
G	–10...10 V	0750, 0800, 0850, 0900, 0950, 1000,
		1100, 1200, 1250, 1300, 1400, 1500,
		1600, 1700, 1750, 1800, 1900, 2000,
		2250, 2500, 2750, 3000, 3250, 3500,
		3550, 3750, 4000, 4250, 4572