

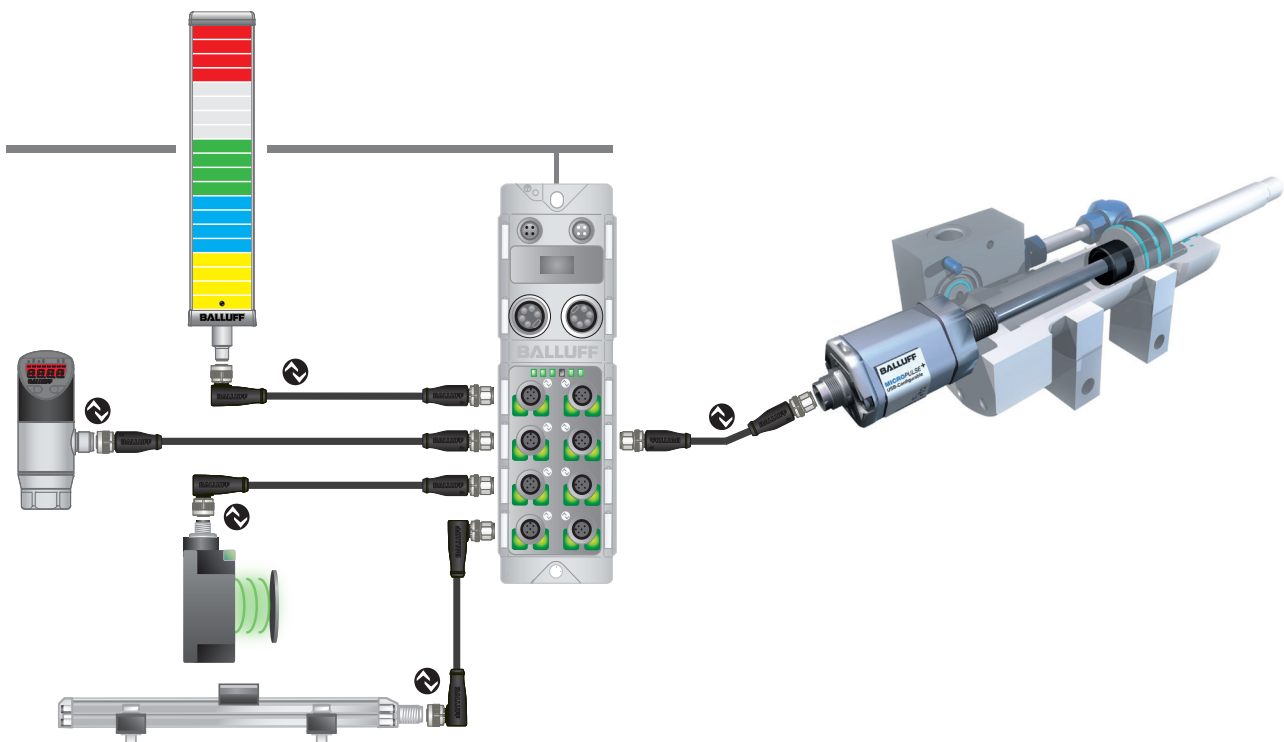
Magnetostrictive linear position sensor for use in hydraulic cylinders as well as level measurement:

NON-CONTACT POSITION MEASUREMENT WITH IO-LINK INTERFACE

The uniform, simple wiring, continuous diagnostics and centralized parameter setting from the controller are some of the benefits of this position measuring system with IO-Link interface. The magnetostrictive system can operate in Flexible Magnet Mode (FMM) with one or two magnets and automatically responds to them. The system can output both position values or determine the differential value between them. In addition, the speed values or the current internal device temperature can be output. The functionality range makes possible flexible application solutions for hydraulic cylinder control and level measurement.

Features

- Precise machine positioning with 5 µm resolution
- Simultaneous position and speed measurement in one system
- Fast update time and data transmission with IO-Link
- IO-Link means time-saving startup and flexible customizing
- Non-contact and wear-free, insensitive to contamination





	BTL6-U101-M0500-B-S4
Interface	IO-Link 1.1
Stroke length max.	4572 mm
Resolution	5 µm
Non-linearity	± 50 µm
Sampling rate max.	1000 Hz
Max. number of position encoders	2
Supply voltage	18...30 V DC
Ambient temperature	-40...+85 °C
Shock	100 g
Vibration	12 g
Enclosure rating per IEC 60529	IP67
Housing material	Aluminum
Connection	Connector, M12 × 1, 4-pin

Ordering example:

BTL6-U101-M0500-B-S4

Nominal length [4 digits]

M0500 = Metric specification in mm,
Nominal length 500 mm (M0025...M4572)

Rod version, fastening

B = Metric mounting thread M18 × 1.5, O-ring, rod diameter 10.2 mm
Z = Inch thread 3/4"-16UNF, O-ring, rod diameter 10.2 mm

ZUBEHÖR



	BAM013L	BAM013P	BAM013J
Description	Position encoder	Position encoder	Position encoder
For Series	Rod BTL	Rod BTL	Rod BTL
Material	Aluminum	Aluminum	Aluminum
Weight	approx. 12 g	approx. 12 g	approx. 12 g
Position encoder travel speed	any	any	any
Operating temperature/Storage temperature	-40...+100 °C	-40...+100 °C	-40...+100 °C

ACCESSORIES



	BCC0374	BCC037M
Type	M12 female, (straight), M12 male, (straight), 3-pin with 5 m Cable PUR (black)	M12 female, (angled), M12 male, (straight), 3-pin with 5 m Cable PUR (black)