

Linear position sensors with Ethernet/IP interface

FAST, SYNCHRONOUS, AND PRECISE POSITION FEEDBACK

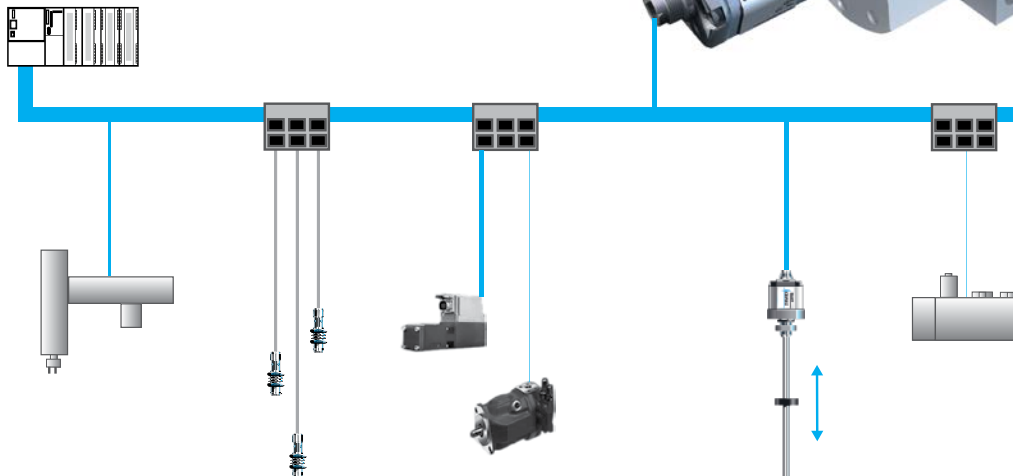
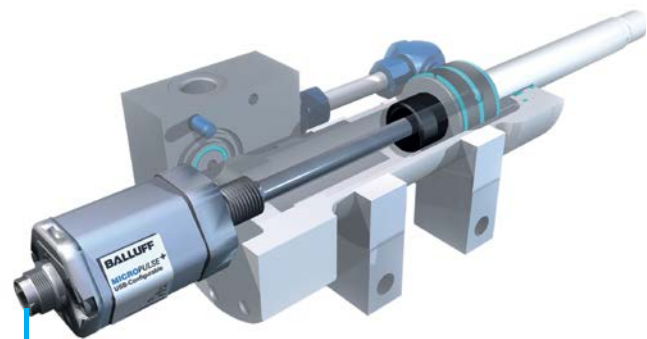
Uniform, simple wiring, continuous diagnostics and central parameter setting via the controller are among the benefits of this linear position sensor with Ethernet/IP interface. The magnetostrictive system with Flexible Magnet Mode (FMM) allows you to work with up to 16 position magnets.

Two values can be output for each magnet: position and velocity. The sensor even automatically adapts itself to the number of magnets. This makes it easy to use in applications where a varying number of magnets is used.

The wide range of functions provides great flexibility in linear position measurement – for example in hydraulic cylinder control or level measurement.

Features

- Synchronous measurement value acquisition and data transmission with Ethernet/IP CIP sync
- Fast, precise absolute position and velocity measurement with 1 µm resolution
- Simple and time-saving startup thanks to defined parameter substitution and flexible application tailoring
- Non-contact and wear-free, insensitive to contamination
- Available in profile- and rod-style



LINEAR POSITION SENSORS
WITH ETHERNET/IP INTERFACE



	BTL7-V50D
Interface	Ethernet/IP
Stroke length max.	7620 mm
Resolution	1 µm
Non-linearity	± 30 µm
Sampling rate max.	1160 Hz
Max. number of position encoders	16
Supply voltage	18...30 V DC
Ambient temperature	-40...+85 °C
Shock	150 g
Vibration	20 g
Enclosure rating per IEC 60529	IP67
Housing material	Aluminum
Connection	M12/4 pole, M8/4 pole

Ordering example: **BTL7-V50D-M0500-B-C003**

Nominal length [4-digit]

M0500 Metric specification in mm,
nominal length 500 mm (M0025...M7620)

Design

- P Profile-style
- B Metric mounting thread
M18x1.5/O-ring, Rod diameter 10.2 mm
- Z Thread 3/4"-16 UNF/O-ring,
Rod diameter 10.2 mm

ACCESSORIES



	BAM013L	BAM013P	BAM014M	BAM014H
Description	Position encoders	Position encoders	Position encoders	Position encoders
For series	B/Z	B/Z	P	P
Distance	Captive	Captive	0.1...4 mm	Captive

CONNECTORS



	BCC053W	BCC09NP	BCC0E8Z	
Description	M8 female straight, 4 pole, 5 m cable	M12 male straight/ M12 male straight, 4 pole, 5 m cable	M12 male straight/ RJ45 male, 4 pole, 5 m cable	