# BALLUFF

# Compact, rod-style position measuring system

# NEW GENERATION OF MAGNETOSTRICTIVE SENSORS FOR POSITION MEASUREMENT

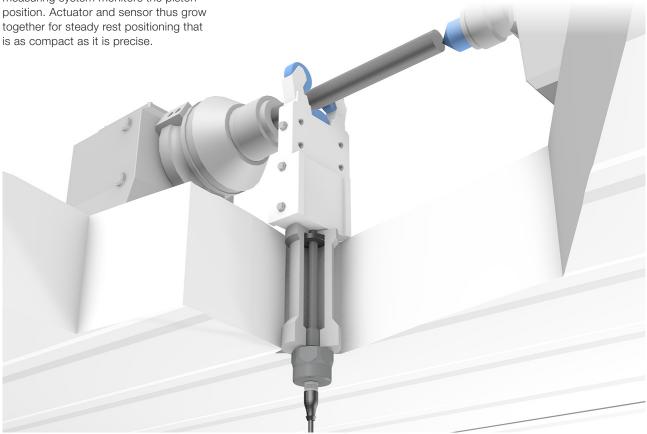
For applications where extreme precision is required for position measurement in tight of spaces, Balluff offers a new generation of rod-style magnetostrictive sensors with analog and IO-Link interfaces. The innovative and space-saving housing design of the electronic head enables easy integration directly in the hydraulic cylinder. The IO-Link interface allows for recording of conditions such as temperature, humidity and service life, which can be used for intelligent condition monitoring and predictive maintenance.

Steady rests support the machining process of long or heavy turned parts. A rod-style magnetostrictive position measuring system monitors the piston position. Actuator and sensor thus grow together for steady rest positioning that is as compact as it is precise.

#### **Features**

- Easy cylinder integration due to compact design
- Analog and IO-Link interfaces available
- Simple parameterization via IO-Link
- Continuous monitoring of conditions such as temperature, humidity, and service life for IO-Link-capable devices
- Simultaneous measurement of several positions and speeds
- Long service life thanks to contactless operating principle





### BTL MAGNETOSTRICTIVE LINEAR POSITION SENSORS IN ROD-STYLE HOUSING



Ordering example	BTL _NC_001		
Fastening	Rod with metric mounting thread M18 $\times$ 1.5 (BN) Rod with inch thread 3/4"-16UNF (ZN)		
Housing details	Zero point at 30 mm and rod end with thread, Zero point at 50.8 mm and rod end with thread		
Measuring length	00254000 mm		
Performance class	B1, C1		
Power supply	1030 V DC, 1830 V DC		
Interface	Analog: 010 V, 100 V, 420 mA, 204 mA, IO-Link: V1.1 COM2/COM3		
Approval/conformity	CE, UKCA, cULus		
Connection	PUR cable, M12 connector, 4-pin, M12 connector, 5-pin, M12 connector, 8-pin, M16 connector, 6-pin, M16 connector, 8-pin		

Configure your magnetostrictive sensor using the online configurator on our <u>website</u>.

### **ACCESSORIES**









	BAM013L	BAM013P	BAM013J	BAM013R
Description	Magnet,	Magnet,	Magnet,	Magnet,
	Ø 32 × 8 mm	Ø 32 × 8 mm	Ø 25 × 8 mm	Ø 21.9 × 8 mm

## CONNECTIVITY









	BCC0LMZ	BCC0LPT	BCC0L20	BCC0372
Connection 1	M12 female, straight, 5-pin, A-coded	M12 female, straight, 8-pin, A-coded	M16 female, straight, 8-pin	M12 female, straight, 5-pin, A-coded
Connection 2				M12 male, straight, 3-pin, A-coded
Cable	5 m PUR shielded, black, drag chain compatible	2 m PUR shielded, black, drag chain compatible	2 m PUR shielded, black, drag chain compatible	2 m PUR, black, drag chain compatible