

**Compact, robust and fast**

## THE NEW ROD-STYLE BTL WITH ETHERCAT INTERFACE

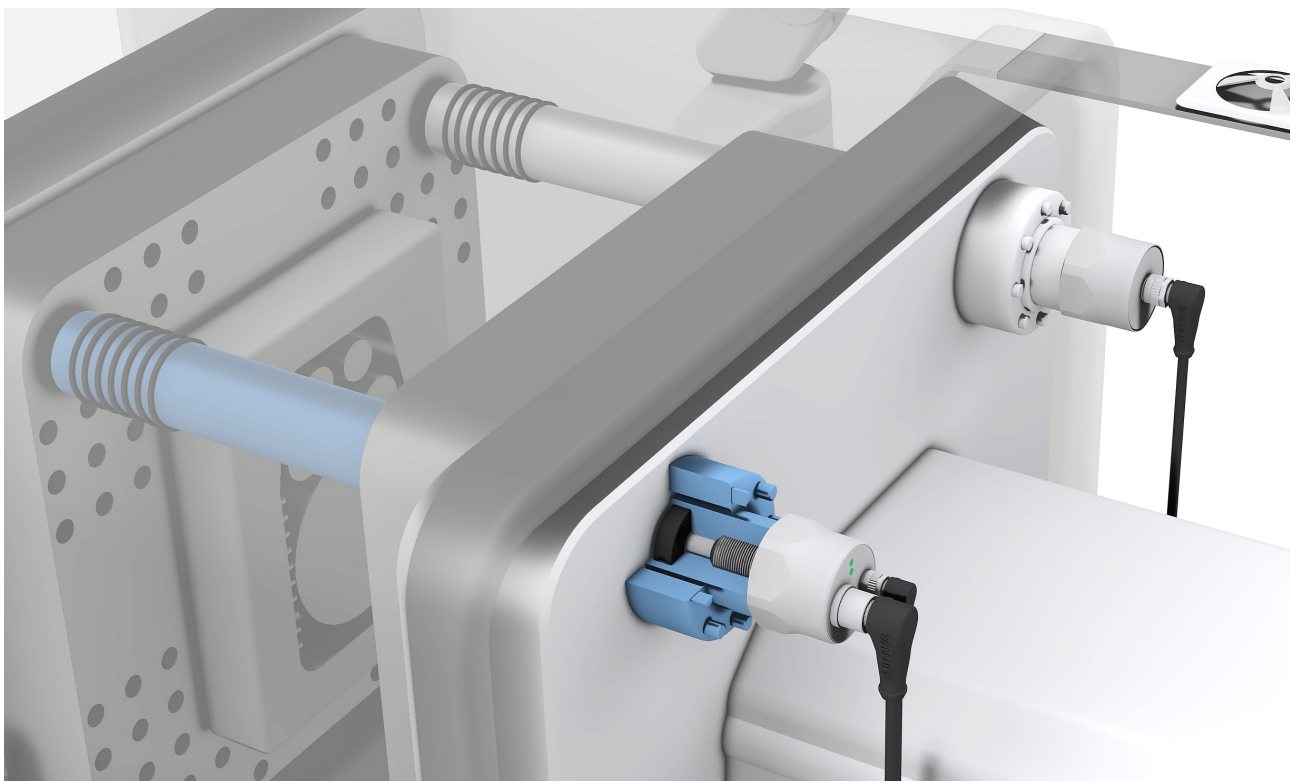
Magnetostrictive sensors measure position and speed with high reliability and precision and are available with the EtherCAT interface. When space is at a premium, this latest generation of BTL (magnetostrictive) position measuring systems from Balluff really come into their own, with particularly compact mini-rod designs that are robust and easy to install.

### The right sensor solution for a wide range of applications

The latest generation of BTL magnetostrictive position measuring systems offers a customized combination of features depending on the product version. We differentiate between two performance classes, allowing you to easily configure the right solution for your application and budget. Sensors in performance class B1 score points with basic functions and an excellent price-performance ratio, while position measuring systems in performance class C1 excel in demanding applications that call for higher performance.

### Features

- EtherCAT interface
- Robust, compact housing: high speed in the smallest installation space
- Two performance classes: customizable solutions
- Quick and easy installation
- Wear-free and contact-free
- Global product availability due to regional production plants



Mold closing process within an injection molding machine

BTL MAGNETOSTRICTIVE  
LINEAR POSITION SENSORS  
IN ROD DESIGN



	BTL MINIROD ETHERCAT, 1-CONNECTOR	BTL MINIROD ETHERCAT, 2-CONNECTOR
Performance class	B1	C1
Fastening	Rod with metric mounting thread M18 × 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	25...4000 mm	25...5000 mm
Ambient temperature	-40...+75 °C	-40...+85 °C
Output details	Position output	Position and speed output
Connection	1 × M12 connector, 8-pin	1 × M8 connector for power supply 1 × M12 connector for data transfer
Non-linearity max.	≤ 500 mm: ±200 μm, > 500 mm: ±0.04 % FS	≤ 500 mm: ±60 μm, > 500 mm: ±0.012 % FS
LED available	No LED	2 × LED

ACCESSORIES



	BAM01AK	BAM013L	BAM013P
Description	Mechanical Protection, 1.7225 stainless steel	Magnet for rod style, Ø 32 × 8 mm, Aluminum	Magnet for rod style, Ø 32 × 8 mm, Aluminum

CONNECTIVITY



	BCC0LR4	BCC0LPU
Connection	M12 female, angled, 8-pin, A-coded	M12 female, straight, 8-pin, A-coded
Cable	PUR shielded black, 5 m, drag chain compatible	PUR shielded black, 5 m, drag chain compatible