

Corrosion resistant and rugged – in stainless steel

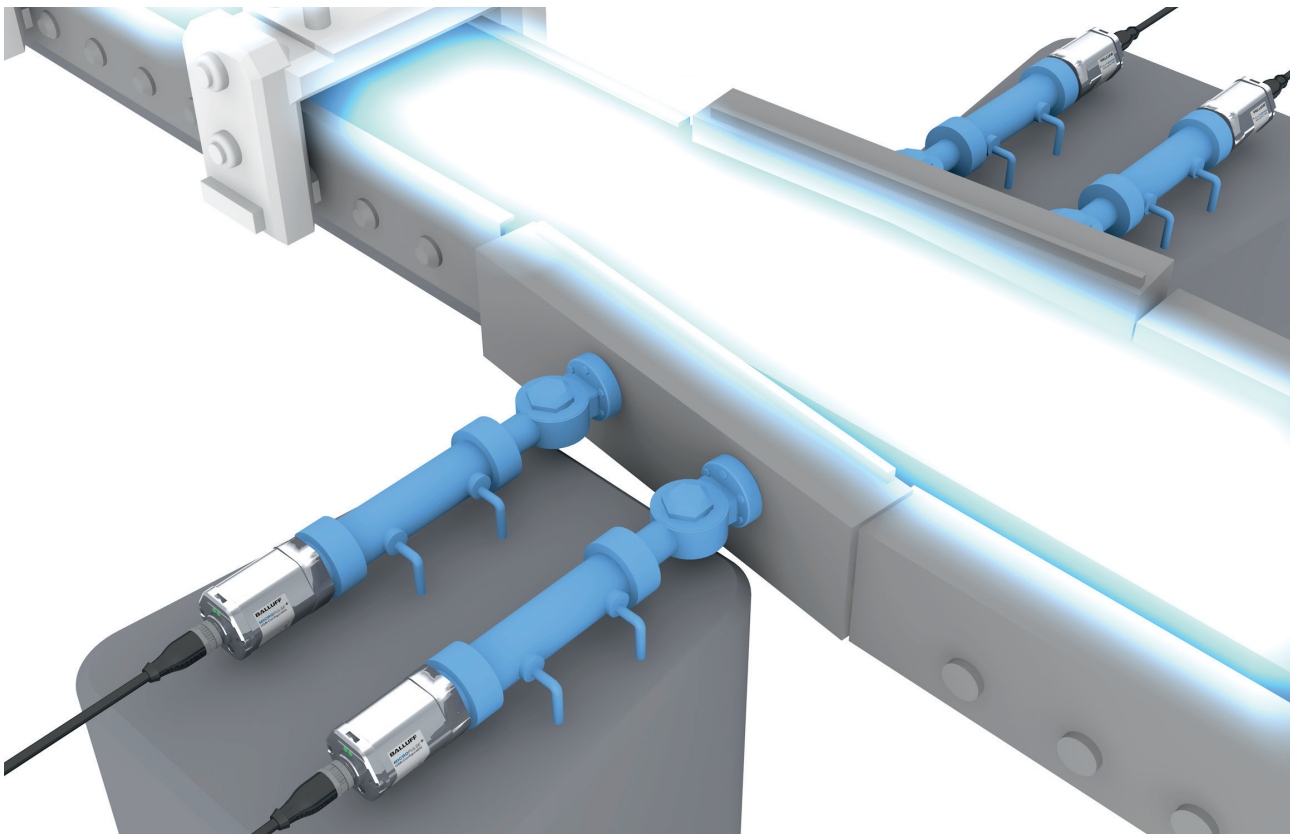
MAGNETOSTRICTIVE LINEAR POSITION SENSOR FOR EXTREME CONDITIONS

Our BTL magnetostrictive linear position sensors meet the highest requirements for long service life and up-time. Our new magnetostrictive sensor with full stainless steel housing can stand up to extreme conditions. It delivers IP69K ingress protection for both the rod in the pressure area and the electronics housing outside the cylinder. This makes it especially rugged and corrosion resistant. Additionally, it is pressure rated up to 1000 bar. All of these attributes make it ideal for use in harsh work areas like steel plants.

The BTL magnetostrictive linear position sensor offers measuring ranges from 25 to 7620 mm. Its non-contact measuring principle means no wear. And because it is completely maintenance-free it increases the up-time of your machines and equipment.

Features

- Corrosion resistant, even under extreme ambient conditions
- High pressure rated up to 1000 bar
- Optional connection for cable protection system
- Maximum enclosure rating: IP69K
- Rugged stainless steel construction for long service life



BTL MAGNETOSTRICTIVE
LINEAR POSITION SENSORS
IN ROD DESIGN



	SERIES BE/BF	SERIES ZE/ZF	SERIES CE
Style	Rod series	Rod series	Rod series
Mounting	Threaded flange M18 × 1.5	Threaded flange 3/4"-16UNF	Threaded flange M22 × 1.5
Housing material	Stainless steel 1.4404	Stainless steel 1.4404	Stainless steel 1.4404
Rod pressure rating	≤ 600 bar	≤ 600 bar	Operating pressure: ≤ 1000 bar Pressure peaks: ≤ 1350 bar
Rod diameter	10.2 mm	10.2 mm	12.7 mm
Magnets, number max.	SSI: 2 Start/stop: 16	SSI: 2 Start/stop: 16	SSI: 2 Start/stop: 16
Connection	Connector, M16, 8-pin, connector, M12, 8-pin, cable, 5 m, PUR, cable, 5 m, PTFE	Connector, M16, 8-pin, connector, M12, 8-pin, cable, 5 m, PUR, cable, 5 m, PTFE	Connector, M16, 8-pin, connector, M12, 8-pin, cable, 5 m, PUR, cable, 5 m, PTFE
Interface	SSI, Start/stop	SSI, Start/stop	SSI, Start/stop
Measuring range	25...7620 mm	25...7620 mm	25...2000 mm
Sampling frequency max.	5000 Hz	5000 Hz	5000 Hz
Non-linearity max.	±30 µm	±30 µm	±30 µm
Repeat accuracy	≤ ±5 µm (typical ±2.5 µm)	≤ ±5 µm (typical ±2.5 µm)	≤ ±5 µm (typical ±2.5 µm)
Operating voltage U _B	10...30 V DC	10...30 V DC	10...30 V DC
Ambient temperature	-40...85 °C	-40...85 °C	-40...85 °C
IP rating	IP69K	IP69K	IP69K
Approval/conformity	PUR version: CE, cULus, EAC PTFE version: CE, EAC	PUR version: CE, cULus, EAC PTFE version: CE, EAC	CE, cULus, EAC

ACCESSORIES



	BAM013L	BAE0040	BAE0043	BAE0004
Description	Magnet, rod, Ø 32 × 8 mm	USB communication box for cable versions	USB communication box for M16 connector versions	Power supplies for the control cabinet

CONNECTIVITY



	BCC00TT	BCC00UP	BCC00YF	BCC00YW
Connection	M16 female, straight, 8-pole	M16 female, angled, 8-pole	M12 female, straight, 8-pole, A-coded	M12 female, straight, 8-pole, A-coded
Cable			PUR shielded, black, 5 m, drag chain compatible	PUR shielded, black, 5 m, drag chain compatible