

Incremental Magnetic Linear Encoder System

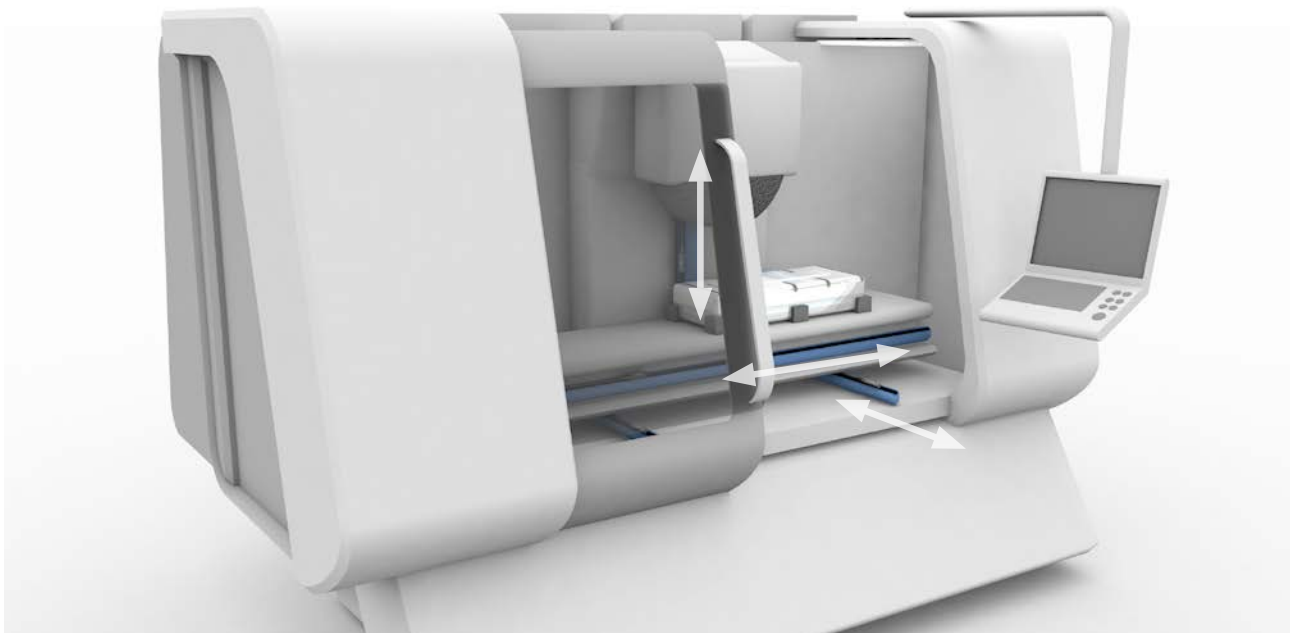
EXPANDED RIDE HEIGHT SOLVES ISSUES WITH VARIABLE GAP DISTANCE

The BML SF2 magnetic linear encoder offers highly accurate incremental position feedback and trouble-free installation and operation thanks to its expanded ride height. The BML SF2 system provides 12 micrometer system accuracy at gap distances up to 1.0 mm and a maximum working gap distance of 1.8 mm.

The BML SF2 features industry-standard A/B/Z quadrature or analog sine/cosine interfaces for universal applicability. The integrated, highly-visible status LED provides at-a-glance system status, and is helpful during installation, start-up and operation.

Features

- Measuring lengths to 48 meters
- System accuracy to $\pm 12 \mu\text{m}$ at gap distances up to 1.0 mm
- Maximum tape-to-sensor gap up to 1.8 mm
- Extremely compact metal housing for installation in tight spaces
- Integrated status LED
- Non-contact, wear-free operation



MAGNETIC ENCODER SYSTEM
BML SF2 FOR LINEAR
AND ROTARY APPLICATIONS



	BML07RR	BML0870	BML07RT	BML085N
Operating voltage	5 V \pm 5 %	5 V \pm 5 %	5 V \pm 5 %	5 V \pm 5 %
Interface	Analog sin/cos 1 V _{pp}	Digital A/B/Z TTL	Analog sin/cos 1 V _{pp}	Digital A/B/Z TTL
Additional features *			With Reference signal	With Reference signal
System accuracy	Up to 12 μ m (depending on mechanical installation)	Up to 12 μ m (depending on mechanical installation)	Up to 12 μ m (depending on mechanical installation)	Up to 12 μ m (depending on mechanical installation)
Resolution *	Depending on evaluation system	2 μ m	Depending on evaluation system	2 μ m
Range	Up to 48 m	Up to 48 m	Up to 48 m	Up to 48 m
Degree of protection per IEC 60529	IP67	IP67	IP67	IP67
Ambient temperature	-20...+80 °C	-20...+80 °C	-20...+80 °C	-20...+80 °C
Housing material	Aluminum, stainless steel	Aluminum, stainless steel	Aluminum, stainless steel	Aluminum, stainless steel
Connection*	5 m PUR cable	5 m PUR cable	5 m PUR cable	5 m PUR cable

*Configurable during order process

ACCESSORIES



	BML TSC-I2...	BAM036N	BAM01N4	BAM01MH
Description	Magnetic tape, rubber ferrite, stainless steel carrier	Mounting accessory	Guide rail, aluminum	Sliding carriage, aluminum
Length*	Max. 48 m		3 m	

*Configurable during order process

CONNECTORS



	BCC09MY	BCC09MZ	BCC0JCN	BCC0JCP
Description	M12 female straight, 12 pin with 5 m PUR cable, shielded	M12 female straight, 12 pin with 10 m PUR cable, shielded	M12 female straight, 12 pin with 5 m PUR cable, shielded, UL	M12 female straight, 12 pin with 10 m PUR cable, shielded, UL