

Magnetic encoder system BML-S1G

WITH SIL 2 CERTIFICATION FOR USE IN SAFETY APPLICATIONS

The BML-S1G magnetic encoder system features a safe incremental sin/cos interface and a safe absolute SSI or BiSS-C interface. This makes it ideal for use in safety applications (certified by TÜV Rheinland).

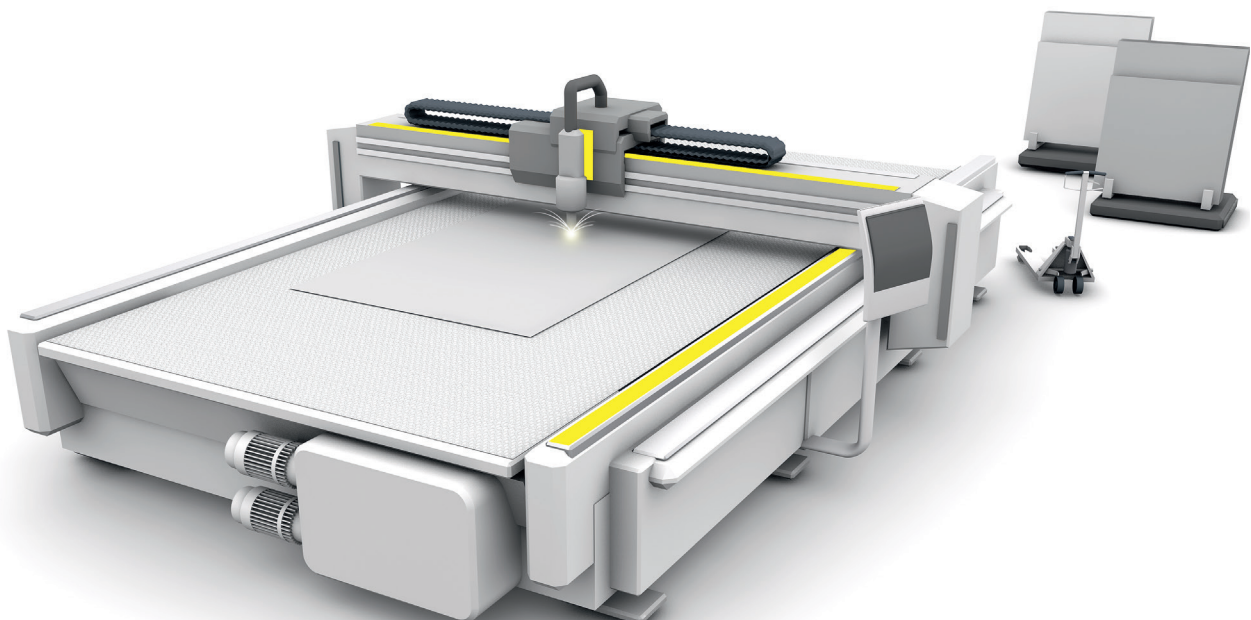
Due to the long measuring range up to 48 m and its high repeat accuracy ($< 1 \mu\text{m}$) the system is suitable for many applications which require functional safety. It supports the functions "safe incremental value" and "safe absolute value".

This allows you to implement many safety functions in a safe overall application according to EN IEC 61800-5-2, such as safe slow speed (SLS) or safe stop 1 (SS1). You also enjoy the benefits of the non-contact, wear-free operating principle for long service life.

The BML-S1G can be integrated into a safety controller with safe analog input – without the need for using expensive absolute interface cards. If the system is used together with the BML Configuration Tool, many additional parameter and diagnostics functions, such as condition monitoring, are available.

Features

- **Safe:** Meets the requirements for DIN EN ISO 13849-1:2015 (Machine Directive, Pld), IEC 61508: 2010 (Functional Safety, SIL2) and EN IEC 61800-5-2: 2007 (Safety Function, SIL2)
- **Time-saving:** Easy to set up, no configuration needed
- **Universal:** Measuring lengths up to 48 m, resolution configurable, high system accuracy down to $20 \mu\text{m}$
- **Convenient:** Parameterizing and diagnostic functions



BML-S1G MAGNETIC ENCODERS FOR LINEAR AND ROTATIONAL MOTION



	BML05RP
Operating voltage	5 V \pm 5 % and 10...28 V DC
Incremental interface	sin/cos, 1 V _{SS}
Absolute interface	SSI: 32 Bit, RS422 with differential and error signal
Additional features	real-time capable
Resolution	\leq 1 μ m
Measuring range	48 m
Performance level/SIL	d/2
Degree of protection IEC 60529	IP67
Approval/conformity	CE, cURus, TÜV
Ambient temperature	-20...+70 °C
Housing material	Coated die-cast zinc
Connection	M12 connector, 12-pin

ACCESSORIES



	BML04P4	BAM02YC	BAM01MK	BAM021H
Description	Magnetic tape	Mounting accessory	Guide rail	Sliding carriage

CONNECTORS



	BCC09MY	BCC09MZ		
Description	M12 female straight, 12 pin with 5 m PUR cable (black)	M12 female straight, 12 pin with 10 m PUR cable (black)		