

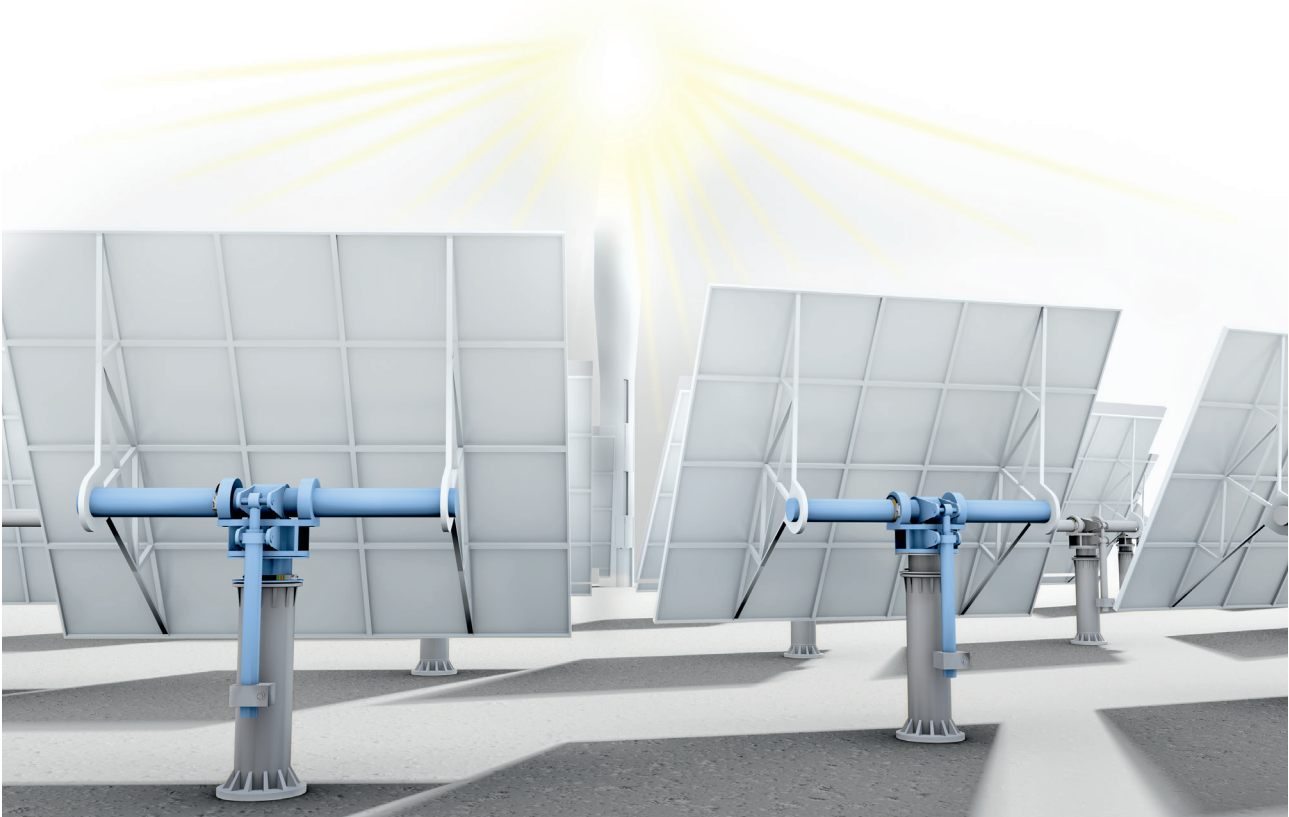
With extended sensor-to-tape gap distance up to 5 mm

BML S2C MAGNETIC LINEAR ENCODER SYSTEM

The extended sensor-to-tape gap distance of the BML S2C incremental encoder system makes it ideal for installation situations where large mechanical tolerances can occur. The benefits are especially evident in applications with long measuring lengths, such as position determination in warehousing and conveying. The compact design enables the BML S2C to be integrated flexibly into space-limited applications. A status LED and error output signal make in-process diagnostics easier, thereby reducing troubleshooting time and effort.

Features

- High tolerance for misalignment eliminates painstaking adjustment procedures and simplifies installation
- Extended gap distance up to 5 mm reliably handles loose application tolerances, increasing system reliability
- Status LED and error output signal aid troubleshooting and diagnostics





BML-S2C

	BML-S2C0-Q___-M600-_0-KF__	BML-S2E0-Q___-M624-_0-KA__
Output signal	Digital RS422 and HTL	Digital RS422 and HTL
Additional signal	Without	Status-LED and Error-Signal
Max. measuring length	48 m	48 m
Resolution	10, 50, 100, 500 or 2500 µm	10, 50, 100, 500 or 2500 µm
Repeat accuracy	±1 increment	±1 increment
Overall system accuracy*	±400 µm	±400 µm
Supply voltage	5 V ±5 % or 10...30 V DC	5 V ±5 % or 10...30 V DC
Current consumption at 5 V supply voltage	< 100 mA	< 100 mA
Current consumption at 10...30 V supply voltage	< 80 mA	< 80 mA
Max. read distance sensor/tape	1...5 mm (without cover)	1...5 mm (without cover)
Max. travel speed	10 m/s	10 m/s
Operating temperature	-20...+80 °C	-20...+80 °C
Storage temperature	-30...+85 °C	-30...+85 °C
Housing material	PBT	PBT
Degree of protection	IP67	IP67

*All specifications in conjunction with tape BML-M07-I68-A_-M_-----

Ordering example: sensor head

B M L - S 2 C 0 - Q 5 3 G - M 6 2 4 - K 0 - K A 0 5

Interface/Power supply/output

Q51 digital square wave signals 10...30 V DC, differential voltage signal (RS422)
 Q53 digital square wave signals 10...30 V DC, level as operating voltage TTL
 Q61 digital square wave signals, 5VDC, differential voltage signal (RS422)

Resolution (edge separation A/B)

G 10 µm K 50 µm L 100 µm
 N 500 µm T 2500 µm

Pole width

6 10 mm

Reference signal

0 None
 2 Pole-periodic

Error signal

0 No error signal
 4 Error signal (not together with cable KF_ _)

Min. edge separation/max. traversing

K 4 µs L 8 µs M 10 µs
 N 16 µs P 24 µs R 100 µs
 S 1 ms T 2 ms

Connection

KA05 5 m cable, PUR, 12-pin, possible cable lengths 2, 5, 10, 15, 20 m
 KF05 5 m cable, PUR, 8-pin, possible cable lengths 2, 5, 10, 15, 20 m
 KA00,3-S284 0.3 m cable with M12 connector, 12-pin