

BKS09-ATBM0520







Model Name > BKS09-ATBM0520 Part No. > 1035241

At a glance

- · Absolute encoder
- Compact housing (90 x 90 x 90 mm)
- · Encoder integrated into housing
- Measuring lengths from 2 to 5 m
- High resolution
- SSI interface

Your benefits

- Industrial designed encoder integrated in an aluminum housing makes it less
 susceptible to external damage, saving time and reducing maintenance costs
- Extremely precise measurements by eliminating the coupling between the encoder and the mechanism
- Space-saving installation, since the encoder is directly integrated into the wire draw mechanics.
- · Very precise measurements thanks to high resolution
- · No reference run necessary thanks to the absolute measuring principle



Performance

Measurement range:	0 m 5 m
Linearity:	≤ ± 0.7 mm
Piston speed:	3.5 m/s
Repeat accuracy typ:	3 measuring steps

Mechanical data

Mass:
Measuring wire diameter:
Measuring wire material:
Housing material:
Spring return force:
Life of wire draw mechanism::
Wire acceleration:

1.5 kg 0.6 mm Highly flexible stranded steel (PA 12 sheathed) Aluminum 4 N ... 6 N ¹⁾ 800,000 cycles ^{2) 3)} $\leq 20 \text{ m/s}^2$

1) These values were measred at an ambient temperature of 25 °C. There may be variations at other temperatures. 2) 3) At high operating speeds over great lengths,

this figure can decrease; at slow oerating speends over short lengths, it can increase.





Illustration may differ

Electrical data

1) Initialization time: 200 ms 0.1 ms Position forming time: Supply voltage: 12 V ... 30 V Code type: 24 bit/Gray Rising at wire pull-out 150 a (EN ISO 13849)²⁾ Code sequence: MTTFd: mean time to dangerous failure: 1) Valid positional data can be read once this time has elapsed. 2) This product is a standard product and does not constitute a

safety component as defined in the Machinery Directive.

Calculation based on nominal load of components, average ambient

temperature 40°C, frequency of use 8760 h/a. All

electronic failures are considered hazardous. For more information, see document no. 8015532.

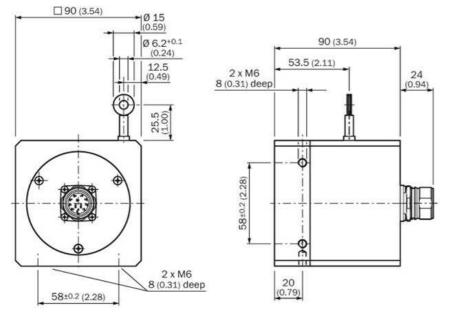
Interfaces

Electrical interface:	SSI
Connection type:	Connector M23, 12-pin, radial
Clock frequency:	1 MHz ¹⁾
Interface signals:	Clock +, Clock -, Data +, Data-
Encoder:	Absolute encoders
1)	

Ambient data

(according to EN 61000-6-2 and EN 61000-6-3)
IP 52 (according to IEC 60529), Note required mounting position
20 g, 6 ms (according to EN 60068-2-27)
10 g, 10 Hz 2,000 Hz (according to EN 60068-2-6)
-20 °C +80 °C
90 % (Condensation not permitted)
-10 °C +70 °C

Dimensional drawing



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