

PKS09-ATBM0520







Wire draw encoders Compact

Model Name > PKS09-ATBM0520

Part No. > 1035243



Illustration may differ

At a glance

- · Incremental encoders
- Compact housing (90 x 90 x 90 mm)
- · Encoder integrated into housing
- · Measuring lengths from 2 m to 5 m
- · High resolution
- · TTL 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

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Performance

0 m ... 5 m Measuring range: ≤ ± 0.7 mm Linearity: Piston speed: $3.5 \, \text{m/s}$

Repeat accuracy typ: 3 measuring steps

Mechanical data

Mass: 1.5 kg Measuring wire diameter: 0.6 mm Housing material: Aluminum 4 N ... 6 N ¹⁾ Spring return force: 800,000 cycles ^{2) 3)} Life of wire draw mechanism:: Wire acceleration: ≤ 20 m/s²

1) These values were measred at an ambient temperature of 25 °C. There may be variations at other temperatures. 2) Average values, which depend on the application At high operating speeds over great lengths, this figure can decrease; at slow oerating speends over short lengths, it can increase.

Electrical data

Operating current: 60 mA (without load) Reference signal: 1/765 measuring steps Maximum load current: 20 mA Initialization time: 40 s

MTTFd: mean time to dangerous failure: 400 a (EN ISO 13849) 2)

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: 4.5 V ... 5.5 V, TTL/RS422
Connection type: Connector M23, 12-pin, radial

Ambient data

EMC: (according to EN 61000-6-2 and EN 61000-6-3)

Enclosure rating encoder: IP 52 (according to IEC 60529), Note required mounting position

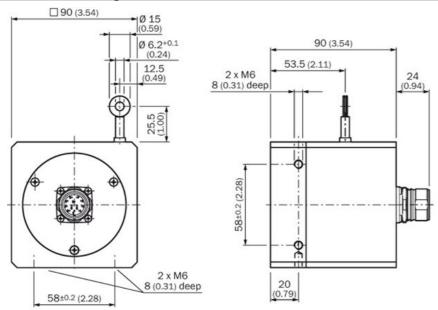
Resistance to shocks: 20 g, 6 ms (according to EN 60068-2-27)

Resistance to vibration: 10 g, 10 Hz ... 2,000 Hz (according to EN 60068-2-6)

Working temperature range: -10 °C ... 70 °C Storage temperature range: -20 °C ... 80 °C

Relative humidity/Condensation: 90 % (Condensation not permitted)

Dimensional drawing



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