

PKS09-ATBM0220







Model Name > PKS09-ATBM0220 Part No. > 1035242

# At a glance

- · Incremental encoders
- Compact housing (90 x 90 x 90 mm)
- · Encoder integrated into housing
- Measuring lengths from 2 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

# CE

#### Performance

Measurement range:	0 m 2 m
Linearity:	≤ ± 0.7 mm
Piston speed:	3.5 m/s
Repeat accuracy typ:	3 measuring steps

## Mechanical data

Mass:	1.5 kg
Measuring wire diameter:	0.6 mm
Measuring wire material:	Highly flexible stranded steel (PA 12 sheathed)
Housing material:	Aluminum
Spring return force:	5 N 6 N <sup>1)</sup>
Life of wire draw mechanism::	800,000 cycles <sup>2) 3)</sup>
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) 3) At high operating speeds over great lengths,

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

## **Electrical data**





Illustration may differ

Operating current: 60 mA (without load) Reference signal: 1/765 measuring steps 20 mA 1) Maximum load current: 40 ms Initialization time: 4.5 V ... 5.5 V Supply voltage: 400 a (EN ISO 13849) 2) 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.

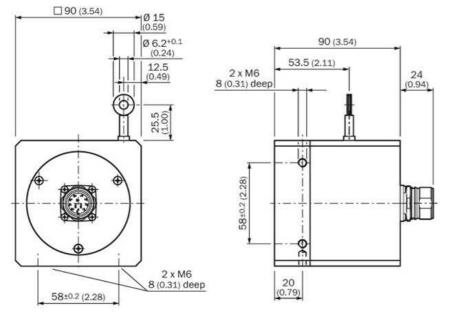
# Interfaces

Electrical interface: Connection type: Encoder: 4.5 V ... 5.5 V, TTL/RS422 Connector M23, 12-pin, radial Incremental encoders

# 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)
Storage temperature range:	-20 °C +80 °C
Relative humidity/Condensation:	90 % (Condensation not permitted)
Working temperature range (encoder):	-10 °C +70 °C

# **Dimensional drawing**



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