

XKS09-HTBM0227







## Wire draw encoders Compact

**Model Name** > XKS09-HTBM0227

Part No. > 1035436



## 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
- Interfaces: HIPERFACE®, PROFIBUS, CANopen and DeviceNET (with adapter)

### 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 the high resolution
- · No reference run necessary thanks to the absolute measuring principle



Illustration may differ

# HIPERFACE® C E HIPERFACE®

## **Performance**

Measurement range:	0 m 2 m
Length of period:	1.195 mm
Linearity:	≤ ± 0.7 mm
Non-linearity:	± 0.1 mm
Piston speed:	3.5 m/s
Repeat accuracy typ:	≤ 0.15 °

## Mechanical data

1.5 kg Mass: Measuring wire diameter: 0.6 mm

Measuring wire material: Highly flexible stranded steel (PA 12 sheathed)

Housing material: Aluminum 5 N ... 6 N <sup>1)</sup> Spring return force:

800,000 cycles <sup>2) 3)</sup> Life of wire draw mechanism::

≤ 20 m/s² Wire acceleration:

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

<sup>1)</sup> 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,

#### **Electrical data**

Operating current: 60 mA (without load)
Output frequency for sine/cosine signals: 0 kHz ... 65 kHz
Available memory area: 1,792 Byte
Supply voltage: 7 V ... 12 V
Code type: Binary

Code sequence: Rising at wire pull-out MTTFd: mean time to dangerous failure: 250 a (EN ISO 13849) 1)

EEprom: 2048 Eeprom

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: 7 V ... 12 V, HIPERFACE®

Connection type: Male connector M12, 8-pin, radial

Interface signals: Parameter channel RS-485: digital, Process data channel SIN, REFSIN,

COS, REFCOS: analog, differential

Number of sine/cosine periods per revolution: 128

Encoder: Absolute 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)

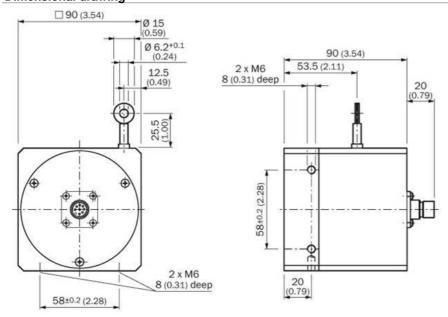
Storage temperature range: -20 °C ... +80 °C

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

Working temperature range (encoder): -10 °C ... +70 °C

<sup>1)</sup> This product is a standard product and does not constitute a

## **Dimensional drawing**



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