

XKS09-HTBM0227

Compact

WIRE DRAW ENCODERS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
XKS09-HTBM0227	1035436

Other models and accessories → www.sick.com/Compact



Detailed technical data

Safety-related parameters

MTTF_D (mean time to dangerous failure)	250 years (EN ISO 13849) ¹⁾
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¹⁾ 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.

Performance

Measurement range	0 m ... 2 m
Encoder	Motor feedback systems rotary HIPERFACE
Sine/cosine periods per revolution	128
Repeatability	≤ 0.15°
Linearity	≤ ± 0.7 mm

Interfaces

Communication interface	HIPERFACE®
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Electronics

Connection type	Male connector, M12, 8-pin, radial
Supply voltage	7 V ... 12 V
Operating current	≤ 60 mA (without load)

Mechanics

Weight	1.5 kg
Measuring wire material	Highly flexible stranded steel (PA 12 sheathed)
Measuring wire diameter	0.6 mm

¹⁾ These values were measured at an ambient temperature of 25 °C. There may be variations at other temperatures.

²⁾ A cycle consists of the wire being pulled out and drawn in.

³⁾ The service life depends on the type of load. This is influenced by environmental conditions, the installation location, the measuring range in use, the traversing speed, and acceleration.

Housing material, wire draw mechanism	Aluminum
Spring return force	5 N ... 6 N ¹⁾
Length of wire pulled out per revolution	153 mm
Life of wire draw mechanism	Typ. 800,000 cycles ^{2) 3)}
Wire acceleration	≤ 20 m/s ²
Operating speed	3.5 m/s

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²⁾ A cycle consists of the wire being pulled out and drawn in.

³⁾ The service life depends on the type of load. This is influenced by environmental conditions, the installation location, the measuring range in use, the traversing speed, and acceleration.

Ambient data

EMC	According to EN 61000-6-2 and EN 61000-6-3
Enclosure rating	IP52, Note required mounting position (IEC 60529)
Operating temperature range	-10 °C ... +70 °C

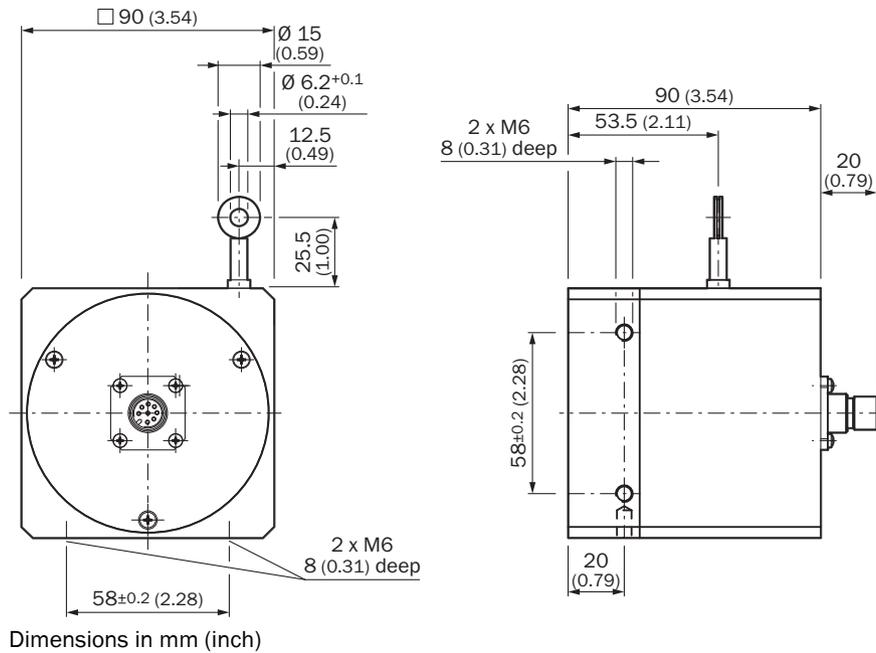
Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

Classifications

ECLASS 5.0	27270590
ECLASS 5.1.4	27270590
ECLASS 6.0	27270590
ECLASS 6.2	27270590
ECLASS 7.0	27270590
ECLASS 8.0	27270590
ECLASS 8.1	27270590
ECLASS 9.0	27270590
ECLASS 10.0	27270613
ECLASS 11.0	27270503
ECLASS 12.0	27270503
ETIM 5.0	EC001486
ETIM 6.0	EC001486
ETIM 7.0	EC001486
ETIM 8.0	EC001486
UNSPSC 16.0901	41112113

Dimensional drawing



Recommended accessories

Other models and accessories → www.sick.com/Compact

	Brief description	Type	part no.
connectors and cables			
	<ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 8-pin, straight, A-coded • Description: Shielded • Connection systems: Screw-type terminals • Permitted cross-section: 0.25 mm² ... 0.5 mm² 	DOS-1208-GA	6028369
	<ul style="list-style-type: none"> • Connection type head A: Flying leads • Connection type head B: Flying leads • Signal type: SSI, Incremental • Items supplied: By the meter • Cable: 11-wire, PUR • Description: SSI, shielded, Incremental 	LTG-2411-MW	6027530
	<ul style="list-style-type: none"> • Connection type head A: Flying leads • Connection type head B: Flying leads • Signal type: SSI, Incremental • Items supplied: By the meter • Cable: 12-wire, PUR, halogen-free • Description: SSI, shielded, Incremental 	LTG-2512-MW	6027531
	<ul style="list-style-type: none"> • Connection type head A: Flying leads • Connection type head B: Flying leads • Signal type: SSI, TTL, HTL, Incremental • Items supplied: By the meter • Cable: 12-wire, UV and saltwater-resistant, PUR, halogen-free • Description: SSI, shielded, TTL, HTL, Incremental 	LTG-2612-MW	6028516

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

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