



WIRE DRAW ENCODERS



### XKS09-HTBM0527 | Compact

WIRE DRAW ENCODERS

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#### Ordering information

Туре	Part no.
XKS09-HTBM0527	1035437

Other models and accessories -> www.sick.com/Compact

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#### Detailed technical data

#### Performance

Measurement range	0 m 5 m
Encoder	Motor feedback systems rotary $HIPERFACE^{\textcircled{0}}$
Sine/cosine periods per revolution	128
Repeatability	≤ 0.15°
Linearity	≤ ± 0.7 mm
Interfaces	
Communication interface	HIPERFACE®
Electrical data	
Connection type	Male connector, M12, 8-pin, radial
Supply voltage	7 V 12 V
Operating current	$\leq$ 60 mA (without load)
MTTFd: mean time to dangerous failure	250 years (EN ISO 13849) <sup>1)</sup>

<sup>1)</sup> 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.

#### Mechanical data

Weight	1.5 kg
Measuring wire material	Highly flexible stranded steel (PA 12 sheathed)
Measuring wire diameter	0.6 mm
Housing material, wire draw mechanism	Aluminum
Spring return force	4 N 6 N <sup>1)</sup>
Length of wire pulled out per revolution	153 mm

 $^{(1)}$  These values were measred at an ambient temperature of 25 °C. There may be variations at other temperatures.

 $^{\rm 2)}\,{\rm A}$  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.

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Life of wire draw mechanism	Typ. 800,000 cycles <sup>2) 3)</sup>
Wire acceleration	≤ 20 m/s²
Operating speed	3.5 m/s

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<sup>3)</sup> 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

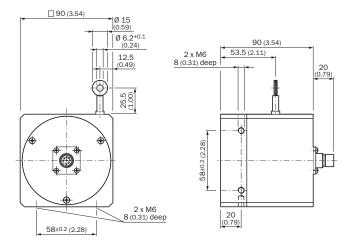
#### Classifications

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

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#### Dimensional drawing (Dimensions in mm (inch))



#### **Recommended accessories**

Other models and accessories -> www.sick.com/Compact

	Brief description	Туре	Part no.
Plug connectors and cables			
/	<ul> <li>Connection type head A: Flying leads</li> <li>Connection type head B: Flying leads</li> <li>Signal type: SSI, Incremental</li> <li>Cable: 11-wire, PUR</li> <li>Description: SSI, Incremental, shielded</li> </ul>	LTG-2411-MW	6027530
	<ul> <li>Connection type head A: Flying leads</li> <li>Connection type head B: Flying leads</li> <li>Signal type: SSI, Incremental</li> <li>Cable: 12-wire, PUR, halogen-free</li> <li>Description: SSI, Incremental, shielded</li> </ul>	LTG-2512-MW	6027531
1	<ul> <li>Connection type head A: Flying leads</li> <li>Connection type head B: Flying leads</li> <li>Signal type: SSI, TTL, HTL, Incremental</li> <li>Cable: 12-wire, UV and saltwater-resistant, PUR, halogen-free</li> <li>Description: SSI, TTL, HTL, Incremental, shielded, Head A: cable Head B: cable Cable: suitable for drag chain, PUR, halogen-free, shielded, UV and saltwater resistant, 4 x 2 x 0.25 mm<sup>2</sup> + 2 x 0.5 mm<sup>2</sup> + 2 x 0.14 mm<sup>2</sup>, Ø 7.8 mm</li> </ul>	LTG-2612-MW	6028516
	<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight</li> <li>Description: Shielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.25 mm<sup>2</sup> 0.5 mm<sup>2</sup></li> </ul>	DOS-1208-GA	6028369

# 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."

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Online data sheet

