



DATA SHEET

MRA-F130-105D2

Wire draw mechanism for wire draw encoders
Wire draw mechanism

SICK Sensor Intelligence



WIRE DRAW MECHANISM

MRA-F130-105D2

ORDERING INFORMATION

Type	part no.
MRA-F130-105D2	6028626
Further device versions and accessories at www.sick.com/Wire_draw_mechanism_for_wire_draw_encoders	

DETAILED TECHNICAL DATA

FEATURES

Product segment	Wire draw mechanism
Product	Wire draw mechanism for wire draw encoders
Description	HighLine wire draw mechanism for servo flange with 6 mm shaft, measuring range 0 m ... 5 m
Items supplied	Without encoder
Included in delivery	Mounting kit for servo flange encoder (Ø 60 mm)
Measurement range	0 m 5 m
Reproducibility	≤ 1 mm
Linearity	≤ ± 2 mm
Hysteresis	≤ 2 mm
Measuring wire material	Highly flexible stranded steel 1,4401 stainless steel V4A
Material, spring housing	Plastic
Housing material, wire draw mechanism	Aluminum (anodised), plastic
Length of wire pulled out per revolution	334.1 mm
Actual wire draw length	5.2 m
Spring return force	15 N 20 N ¹⁾
Measuring wire diameter	1.35 mm
Wire acceleration	70 m/s ²
Operating speed	8 m/s
Resolution	To calculate the resolution of the system please use following formula:length of wire draw per revolution / steps per revolution = resolution of the combination of wire draw + encoder
Ambient operating temperature	-30 °C ... +70 °C
Enclosure rating mechanic	IP64
Life of wire draw mechanism	Typ. 1,000,000 cycles ^{2) 3)}
Weight	2.8 kg

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

²⁾ Average values, which depend on the application.

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.

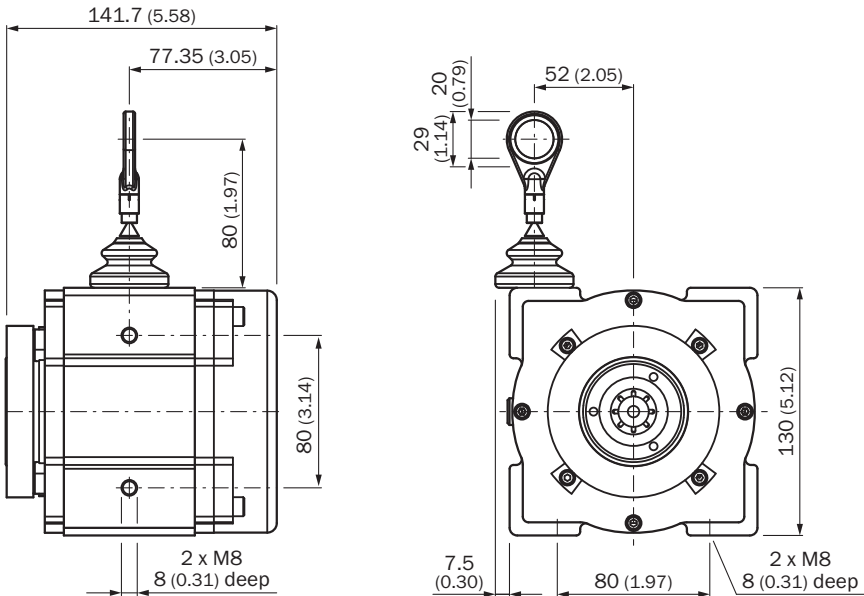
	2.8 kg Wire draw mechanism
Weight (measuring wire)	7.1 g/m

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- ²⁾ Average values, which depend on the application.
- 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.

CERTIFICATES

China RoHS	✓
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DIMENSIONAL DRAWING



Dimensions in mm (inch)

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6028626

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SICK AT A GLANCE

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SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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