



MRA-F130-110D2

Wire draw mechanism for wire draw encoders

WIRE DRAW MECHANISM

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
MRA-F130-110D2	6028627

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

Detailed technical data

Classifications

ECLASS 5.0	27270591
ECLASS 5.1.4	27270591
ECLASS 6.0	27279103
ECLASS 6.2	27279103
ECLASS 7.0	27279103
ECLASS 8.0	27279103
ECLASS 8.1	27279103
ECLASS 9.0	27270591
ECLASS 10.0	27270591
ECLASS 11.0	27270591
ECLASS 12.0	27270591
ETIM 5.0	EC002026
ETIM 6.0	EC002026
ETIM 7.0	EC002026
ETIM 8.0	EC002026
UNSPSC 16.0901	39122221

Features

Description	HighLine wire draw mechanism for servo flange with 6 mm shaft, measuring range 0 m ... 10 m
Items supplied	Without encoder
Measurement range	0 m 10 m
Reproducibility	≤ 1.5 mm
Linearity	≤ ± 2 mm
Hysteresis	≤ 3 mm
Weight	3.5 kg Wire draw mechanism

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.

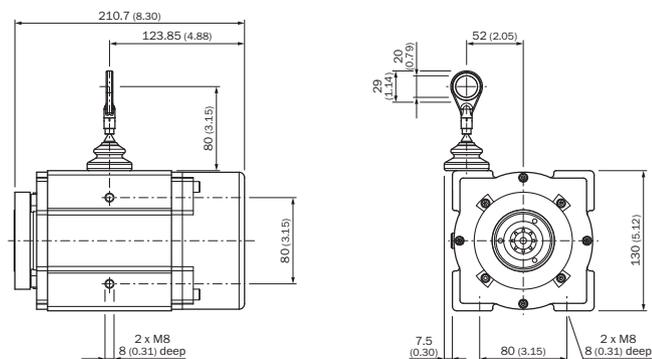
Weight (measuring wire)	7.1 g/m
Measuring wire material	Highly flexible stranded steel 1,4401 stainless steel V4A
Material, spring housing	Plastic
Housing material, wire draw mechanism	Aluminum (anodised), plastic
Length of wire pulled out per revolution	332.4 mm
Actual wire draw length	10.2 m
Spring return force	10 N 20 N ¹⁾
Measuring wire diameter	1.35 mm
Wire acceleration	40 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)}

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.

Dimensional drawing (Dimensions in mm (inch))



Recommended accessories

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

	Brief description	Type	Part no.
Others			
	<ul style="list-style-type: none"> Product family: Assembly accessories Description: Additional brush attachment for wire draw mechanism MRA-F130 (5 m, 10 m, 20 m and 30 m from HighLine series) 	MRA-F130-B	6038562

	Brief description	Type	Part no.
	<ul style="list-style-type: none"> Product family: Assembly accessories Description: Wire draw deflection pulley for wire draw mechanism MRA-F130 (5m, 10m, 20m and 30m from HighLine series) 	MRA-F130-R	6028631
	<ul style="list-style-type: none"> Product family: Assembly accessories Description: Compressed air attachment for MRA-F080... and MRA-F130... HighLine wire draw mechanism 	MRA-F-P	6073769
	<ul style="list-style-type: none"> Product family: Assembly accessories Description: Spare mounting set for HighLine wire draw mechanisms for fitting encoders with servo flange 	MRA-F-K	6028633

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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.

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For us, that is “Sensor Intelligence.”

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