

MRA-G130-105D3

Wire draw mechanism for wire draw encoders

WIRE DRAW MECHANISM





Ordering information

Туре	part no.
MRA-G130-105D3	5322779

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

Detailed technical data

Features

Description	EcoLine wire draw mechanism for servo flange with 6 mm shaft, measuring range 0 m 5 m
Items supplied	Without encoder
Measurement range	0 m 5 m
Reproducibility	≤ 0.2 mm
Linearity	≤ ± 2 mm
Hysteresis	≤ 0.4 mm
Weight	800 g Wire draw mechanism
Weight (measuring wire)	1.2 g/m
Measuring wire material	Highly flexible stranded steel 1,4401 stainless steel V4A
Housing material	Plastic, Noryl
Housing material, wire draw mechanism	Plastic, Noryl
Length of wire pulled out per revolution	385 mm
Actual wire draw length	5.2 m
Spring return force	4.5 N 7 N ¹⁾
Measuring wire diameter	0.55 mm
Wire acceleration	4 m/s ²
Operating speed	3 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	IP50
Life of wire draw mechanism	Typ. 1,000,000 cycles ^{2) 3)}

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

Certificates

China RoHS	✓

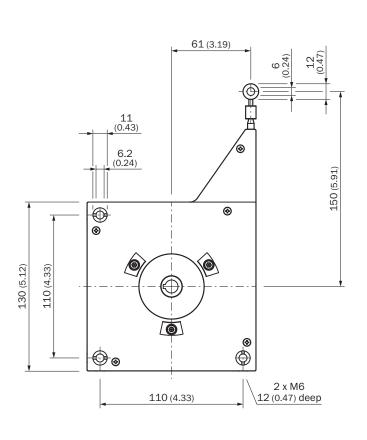
 $^{^{2)}\,\}mathrm{Average}$ values, which depend on the application.

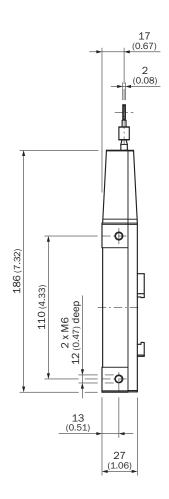
³⁾ The service life depends on the type of load. This is influenced by environmental conditions, the installation location, the measuring range in use, the traversing speed, and acceleration.

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

Dimensional drawing





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Dimensions in mm (inch)

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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.

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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