

MRA-G055-101D4S03

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
MRA-G055-101D4S03	5341052

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Detailed technical data

Technical specifications

Accessory group	Wire draw mechanism
Description	EcoLine wire draw mechanism for servo flange with 6 mm shaft, measuring range 0 m ... 1.65 m
Specialty	Specific cable end (joint ball (plastic) and press-fit connector (brass), cable drum circumference 150 mm ± 0.1 mm, measurement length 1.65 m
Items supplied	Without encoder
Measurement range	0 m ... 1.65 m ¹⁾
Reproducibility	≤ 0.2 mm
Linearity	≤ ± 2 mm
Hysteresis	≤ 0.4 mm
Weight	80 g (Wire draw mechanism)
Weight (measuring wire)	0.58 g/m
Measuring wire material	Highly flexible stranded steel 1,4401 stainless steel V4A/PA 12-sheathed
Housing material	Plastic, Noryl
Housing material, wire draw mechanism	Plastic, Noryl
Length of wire pulled out per revolution	150 mm
Actual wire draw length	1.7 m
Spring return force	1 N ... 1.4 N ²⁾
Measuring wire diameter	0.36 mm
Wire acceleration	10 m/s ²
Operating speed	6 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 ³⁾
Enclosure rating mechanic	IP50
Life of wire draw mechanism	Typ. 1,000,000 cycles ^{4) 5)}

¹⁾ The actual rope extension length must not be exceeded, otherwise the wire draw mechanics will get damaged.

²⁾ These values were measured at an ambient temperature of 25 °C. There may be variations at other temperatures.

³⁾ Wire extension length per revolution: 150 mm ± 0.1 mm. These values were measured at an ambient temperature of 25 °C. There may be variations at other temperatures.

⁴⁾ Average values, which depend on the application.

⁵⁾ 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.

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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