

MRA-F080-102D2

Wire draw mechanism for wire draw encoders

WIRE DRAW MECHANISM





Ordering information

Туре	part no.
MRA-F080-102D2	6028625

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

Detailed technical data

Features

Description	HighLine wire draw mechanism for servo flange with 6 mm shaft, measuring range 0 m 2 m $$			
Items supplied	Without encoder			
Measurement range	0 m 2 m			
Reproducibility	≤ 1 mm			
Linearity	≤ ± 2 mm			
Hysteresis	≤ 2 mm			
Weight	1.3 kg Wire draw mechanism			
Weight (measuring wire)	7.1 g/m			
Measuring wire material	Highly flexible stranded steel 1,4401 stainless steel V4A			
Material, spring housing	Die-cast zinc			
Housing material, wire draw mechanism	Aluminum (anodized), aluminum die cast (nickel-plated)			
Length of wire pulled out per revolution	200 mm			
Actual wire draw length	2.2 m			
Spring return force	6 N 14 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 measred at an ambient temperature of 25 $^{\circ}$ C. There may be variations at other temperatures.

Certificates

China-RoHS	✓

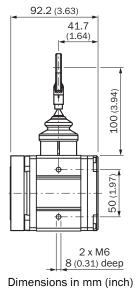
 $^{^{2)}\,\}mathrm{Average}$ values, which depend on the application.

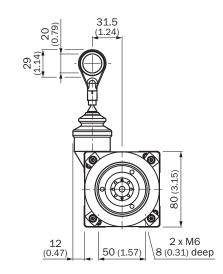
³⁾ The service life depends on the type of load. This is influenced by environmental conditions, the installation location, the measuring range in use, the traversing speed, and acceleration.

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





Recommended accessories

Other models and accessories

www.sick.com/Wire_draw_mechanism_for_wire_draw_encoders

	Brief description	Туре	part no.		
Mounting systems					
9-C	Description: Additional brush attachment for wire draw mechanism MRA-F080 (2 m and 3 m from HighLine series)	MRA-F080-B	6045341		
	Description: Wire draw deflection pulley for wire draw mechanism MRA-F080 (2m and 3m from HighLine series)	MRA-F080-R	6028632		
	Description: Compressed air attachment for MRA-F080 and MRA-F130 HighLine wire draw mechanism	MRA-F-P	6073769		
Ç.	Description: Spare mounting set for HighLine wire draw mechanisms for fitting encoders with servo flange	MRA-F-K	6028633		

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