

MRA-F190-160D2

Wire draw mechanism for wire draw encoders

WIRE DRAW MECHANISM





Ordering information

Туре	part no.
MRA-F190-160D2	6073783

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 \dots 60 m
Items supplied	Without encoder
Measurement range	0 m 60 m
Reproducibility	≤ 5 mm
Linearity	≤ ± 2 mm
Hysteresis	≤ 10 mm
Weight	15.5 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	491.5 mm
Actual wire draw length	60.2 m
Spring return force	18 N 37 N ¹⁾
Measuring wire diameter	1.35 mm
Wire acceleration	18 m/s ²
Operating speed	4 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.

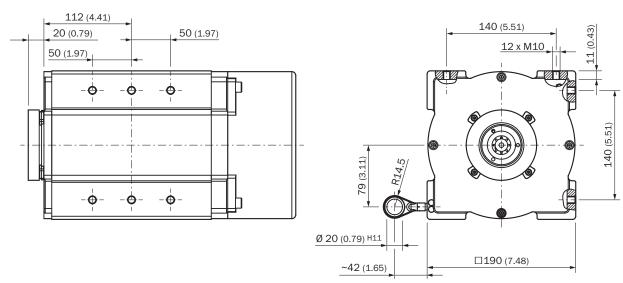
 $^{^{\}rm 2)}$ Average values, which depend on the application.

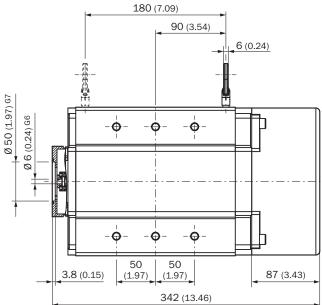
³⁾ The service life depends on the type of load. This is influenced by environmental conditions, the installation location, the measuring range in use, the traversing speed, and acceleration.

Certificates

China RoHS	✓
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





Dimensions in mm (inch)

Recommended accessories

Other models and accessories \rightarrow www.sick.com/Wire_draw_mechanism_for_wire_draw_encoders

	Brief description	Туре	part no.	
Mounting systems				
	Description: Spare mounting set for HighLine wire draw mechanisms for fitting encoders with servo flange	MRA-F-K	6028633	

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