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further accessories
Wire draw mechanism

MRA-F130-105D2

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Model Name	**> MRA-F130-105D2**
Part No.	**> 6028626**

Technical data

Accessory group:	Wire draw mechanism
Description:	Seilzugmechanik für Servoflansch mit 6 mm Welle, Messseildurchmesser: 1,35 mm, Lebendauer: 1 Mio. Zyklen
Enclosure rating:	IP 50
Weight:	2.8 kg
Items supplied:	Ohne Encoder
Measuring range:	5 m
Spring return force:	≤ 15 N ... 20 N
Operating speed:	4 m/s
Drum housing:	Aluminum (anodised)
Drum diameter:	105 mm
Drum precision:	0.05 %
Material, spring housing:	Plastic
Number of revolutions before full pullout:	Ca. 15
Resolution:	To calculate the correct number of steps/number of encoder pulses for the required linear resolution, please click "linear resolution"
Ambient operating temperature:	-20 °C ... +70 °C

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Dimensional drawing



Linear resolution

Absolute encoders: determining the matching number of steps of the encoder for the required linear resolution

$$\text{No. of encoder steps per revolution} = \frac{3.1416 \times (\text{drum diameter} + \text{wire diameter})}{\text{Linear resolution per measuring step}}$$

Example: required linear resolution 0.05 mm; wire draw mechanism 5 m

$$\text{No. of encoder steps per revolution} = \frac{3.1416 \times (105\ \text{mm} + 1.35\ \text{mm})}{0.05\ \text{mm}} = 6682$$

Incremental encoders: determining the matching number of pulses of the encoder for the required linear resolution

$$\text{No. of encoder pulses per revolution} = \frac{3.1416 \times (\text{drum diameter} + \text{wire diameter})}{4 \times \text{Linear resolution per measuring step}}$$ [1]

Example: required linear resolution 0.025 mm; wire draw mechanism 2 m

$$\text{No. of encoder pulses per revolution} = \frac{3.1416 \times (62.31\ \text{mm} + 1.35\ \text{mm})}{4 \times 0.025\ \text{mm}} = 2000$$

[1] Based on the control/counter evaluating the flanks of the A+B pulses.

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