



further accessories

MRA-F080-402D2



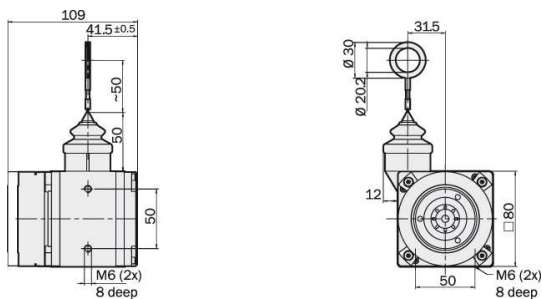
Model Name > [MRA-F080-402D2](#)
Part No. > [6029788](#)



Technical data

Accessory group:	Wire draw mechanism
Description:	Seilzugmechanik für Klemmflansch mit 10 mm Welle, Messseildurchmesser: 1,35 mm, Lebendauer: 1 Mio. Zyklen
Enclosure rating:	IP 64
Weight:	1.3 kg
Items supplied:	Ohne Encoder
Measuring range:	2 m
Spring return force:	6 N ... 14 N
Operating speed:	4 m/s
Drum housing:	Aluminum (anodised)
Drum diameter:	62.31 mm
Drum precision:	0.05 %
Material, spring housing:	Die-cast zinc
Number of revolutions before full pullout:	Ca. 10
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

Dimensional drawing



Linear resolution

Absolute encoders: determining the matching number of steps of the encoder for the required linear resolution	
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	
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	
No. of encoder pulses per revolution =	$\frac{3.1416 \times (\text{drum diameter} + \text{wire diameter})}{4 \times \text{Linear resolution per measuring step}}$
Example: required linear resolution 0.025 mm; wire draw mechanism 2 m	
No. of encoder pulses per revolution =	$\frac{3.1416 \times (62.31 \text{ mm} + 1.35 \text{ mm})}{4 \times 0.025 \text{ mm}} = 2000$
<small>Based on the control/counter evaluating the flanks of the A+B pulses.</small>	

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