



further accessories

MRA-F130-430D1



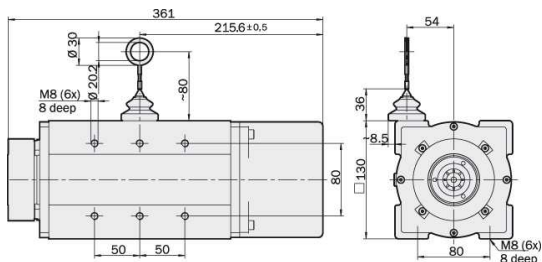
**Model Name** > [MRA-F130-430D1](#)  
**Part No.** > [6029792](#)



### Technical data

Accessory group:	Wire draw mechanism
Description:	Seilzugmechanik für Klemmflansch mit 10 mm Welle, Messeildurchmesser: 0,81 mm, Lebendauer: 1 Mio. Zyklen
Enclosure rating:	IP 64
Weight:	6.2 kg
Items supplied:	Ohne Encoder
Measuring range:	30 m
Spring return force:	10 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. 91
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

<b>Absolute encoders: determining the matching number of steps of the encoder for the required linear resolution</b>	
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 30 m	
No. of encoder steps per revolution =	$\frac{3.1416 \times (105 \text{ mm} + 0.81 \text{ mm})}{0.05 \text{ mm}} = 6648$
<b>Incremental encoders: determining the matching number of pulses of the encoder for the required linear resolution</b>	
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 20 m	
No. of encoder pulses per revolution =	$\frac{3.1416 \times (105 \text{ mm} + 0.81 \text{ mm})}{4 \times 0.025 \text{ mm}} = 1662$
<small>Based on the cordix counter evaluating the flanks of the A+B pulses.</small>	

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