



further accessories

MRA-F130-405D2



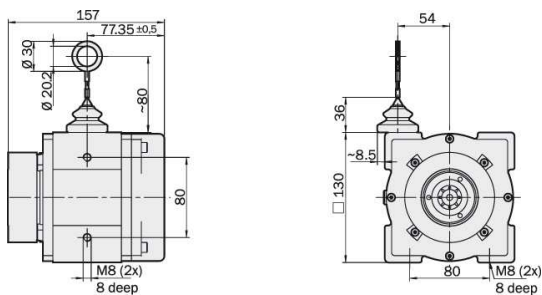
**Model Name** > [MRA-F130-405D2](#)  
**Part No.** > [6029789](#)



### 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:                                    | 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   |

### 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 =  | $\frac{3.1416 \times (\text{drum diameter} + \text{wire diameter})}{\text{Linear resolution per measuring step}}$          |
| <b>Example: required linear resolution 0.05 mm; wire draw mechanism 5 m</b>  |  |
| No. of encoder steps per revolution =  | $\frac{3.1416 \times (105 \text{ mm} + 1.35 \text{ mm})}{0.05 \text{ mm}} = 6682$  |
| <b>Incremental encoders: determining the matching number of pulses of the encoder for the required linear resolution</b> |  |
| No. of encoder pulses per revolution =   | $\frac{3.1416 \times (\text{drum diameter} + \text{wire diameter})}{4 \times \text{Linear resolution per measuring step}}$ |
| <b>Example: required linear resolution 0.025 mm; wire draw mechanism 2 m</b>   |  |
| No. of encoder pulses per revolution =   | $\frac{3.1416 \times (102.31 \text{ mm} + 1.35 \text{ mm})}{4 \times 0.025 \text{ mm}} = 2000$                             |
| <small>Based on the control/counter evaluating the flanks of the A+B pulses.</small>                                     |  |

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