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# further accessories
# Wire draw mechanism

MRA-F080-103D2




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**Model Name** > MRA-F080-103D2
**Part No.** > 6030125

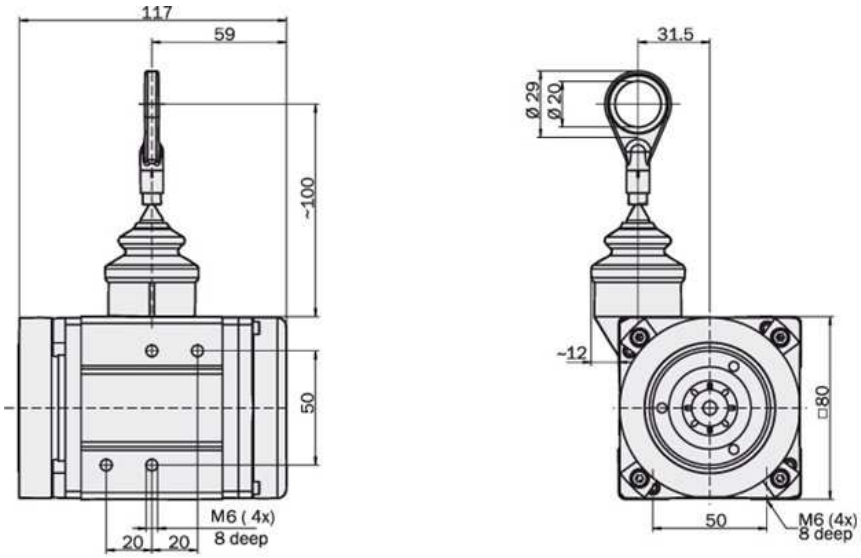



## Technical data

| | |
|---|---|
| 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: | 1.5 kg |
| Items supplied: | Ohne Encoder |
| Measuring range: | 3 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. 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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