



further accessories  
Wire draw mechanism

MRA-F130-110D2

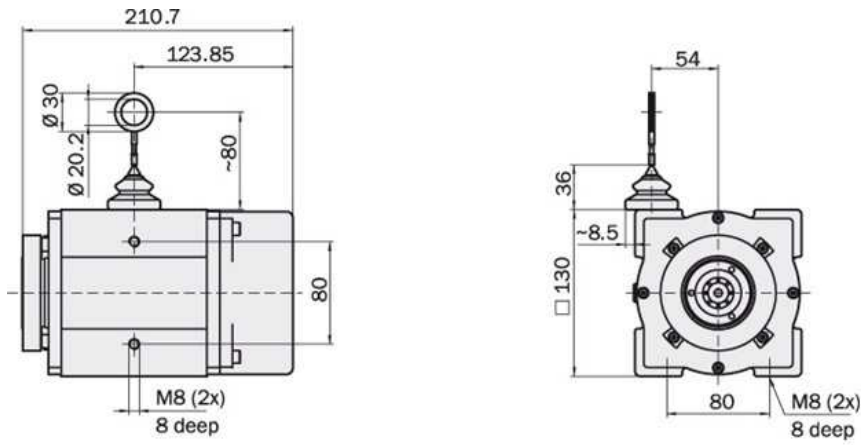
**Model Name** > [MRA-F130-110D2](#)  
**Part No.** > [6028627](#)

**Technical data**

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Accessory group:	Wire draw mechanism
Description:	Seilzugmechanik für Servoflansch mit 6 mm Welle, Messseildurchmesser: 1,35 mm, Lebensdauer: 1 Mio. Zyklen
Enclosure rating:	IP 50
Weight:	3.5 kg
Items supplied:	Ohne Encoder
Measuring range:	10 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. 30
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 =  $\frac{3.1416 \times (62.24 \text{ mm} + 1.35 \text{ mm})}{4 \times 0.025 \text{ mm}} = 2000$

Based on the control counter evaluating the flanks of the A-B pulses.

**Australia**

Phone +61 3 9457 0600  
1800 33 48 02 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail marketing@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Česká republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail info@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6881000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 5309 2112  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederland**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail sick@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail sales.gsg@sick.com

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886 2 2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 88 65 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 (800) 325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)