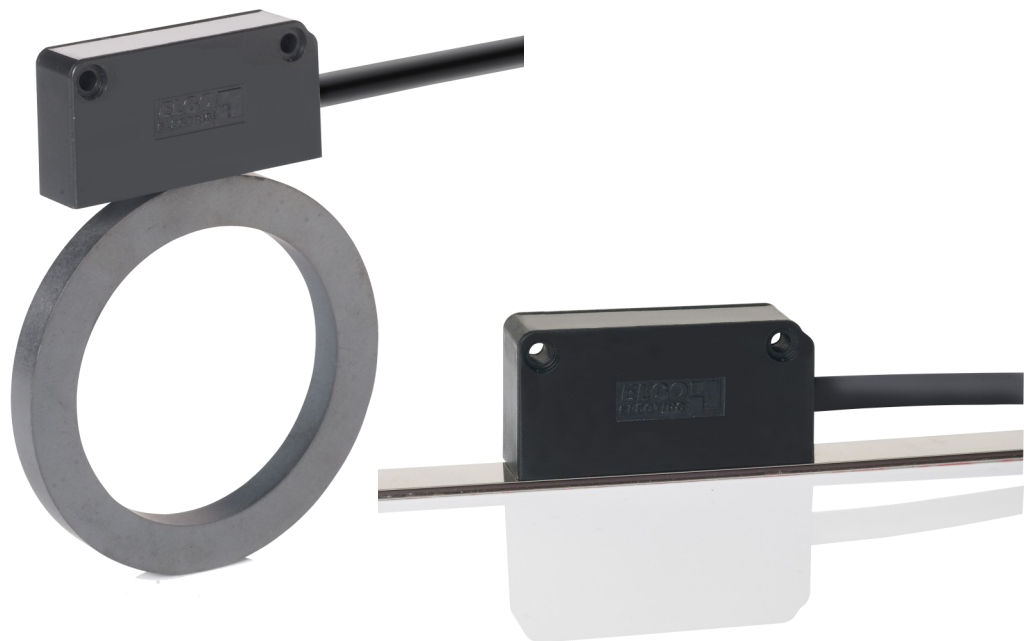


RMIX2



General: The series RMIX2 is a magnetic length- and angle measuring system. The sensor technology and the translator are placed in one housing. The magnetic tape is fixed with the sticky tape to a level area. The RMIX2 can be installed up to a maximum distance of 0.6 mm. Possible signals are A, B, Z.

Features:

- Direct contact-free measurement
- The distance between sensor and magnetic tape/magnetic ring can be between 0.1 and 0.6 mm
- Measuring length theoretically unlimited
- Resolution 0.1 mm (0.025 mm at 4-edge triggering)
- Standard ring diameter 72 mm, 38 mm and 19.75 mm available (other sizes on request)
- Repeat accuracy +/- 0,1 mm
- Very robust against dirt

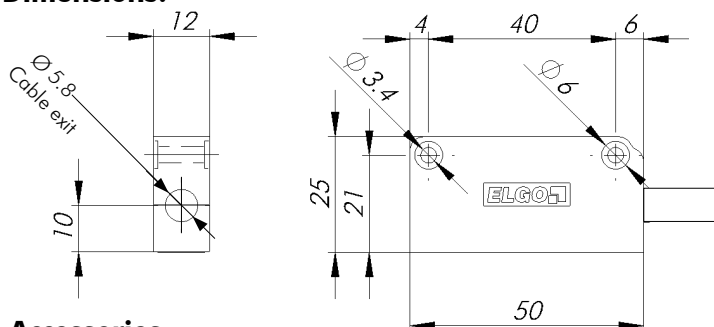
Technical specifications:

Mechanical Data	
Measuring principle	incremental
Repeat accuracy	+/- 0.1 mm
System accuracy at 20°C	+/- (25 + 20 x L) L = measuring length in meters
Distance from sensor to magnetic tape	max 0.6 mm
Basic pole pitch	2 mm
Sensor housing material	ABS plastic material
Sensor housing dimensions	L x W x H = 50 x 12 x 25 mm
Necessary magnetic tape	MB20-20-10-1-R
Maximum measuring length	theoretically unlimited
Connection	open cable ends
Sensor cable	1.5 m standard cable length (others on request) drag chain suitable
Weight	ca. 40 g without cable

Electrical Data	
Supply voltage	10 - 30 VDC / 5 VDC
Residual ripple	10 - 30 V < 10 % +/- (5 V +/- 25 mV)
Power input	10 - 30 VDC: max 150 mA 5 VDC: max 200 mA
Output signals	A, A', B, B', Z, Z'
Output level	5 V TTL Line Driver / 10... 30 V HTL
Resolution	0.1 mm (0.025 mm 4 edge triggering)
Index pulse	4 mm periodical
Max. output frequency per channel	200 kHz / channel A or B
Max. movement speed	20 m/s linear 300.000 rpm / amount of terminal pairs

Environment Conditions	
Storage temperature	-25 °C ... +85 °C
Operation temperature	-10 °C ... +70 °C (-25 °C ... +85 °C upon request)
Protection class	IP67

Dimensions:



Accessories:

MB20-20-10-1-R
MR2030, MR3860, MR72114
Magnetic tape end cap 10 mm - set

Magnetic tape for RMIX2
Magnetic ring
2 end caps (10 mm) and 2 x M3 screws; additional fixation in the radial and linear area, as well as a protection of the magnetic tape ends
Order No. 731031002

Magnetic tape end cap 10 mm

1 end cap (10 mm), Order No. 731031000

Order reference:

For orders please use the following order code:

RMIX2 - $\overline{\text{A}} \overline{\text{A}} \overline{\text{A}} - \overline{\text{B}} \overline{\text{B}} \overline{\text{B}} - \overline{\text{C}} \overline{\text{C}} \overline{\text{C}} \overline{\text{C}} - \overline{\text{D}} \overline{\text{D}}$

SN-Number

000 ELGO standard
001 First special version

Signal cable length (in XX.X meter)

01.5 1.5 m (standard length)
(other on request)

Resolution

0025 25 μm (4-edge triggering)

Supply / output levels

00 10-30 VDC / 10-30 VDC
01 10-30 VDC / 5 V-TTL line driver
11 5 VDC / 5 V-TTL line driver

Example:

RMIX2 - 000 - 01.5 - 0025 - 01
A A A - B B . B - C C C C - D D

RMIX2 ELGO standard, with 1.5 m signal cable length, 0.025 mm resolution, 10-30 VDC / 5 V-TTL line driver

Your order:

RMIX2 - $\overline{\text{A}} \overline{\text{A}} \overline{\text{A}} - \overline{\text{B}} \overline{\text{B}} \overline{\text{B}} - \overline{\text{C}} \overline{\text{C}} \overline{\text{C}} \overline{\text{C}} - \overline{\text{D}} \overline{\text{D}}$