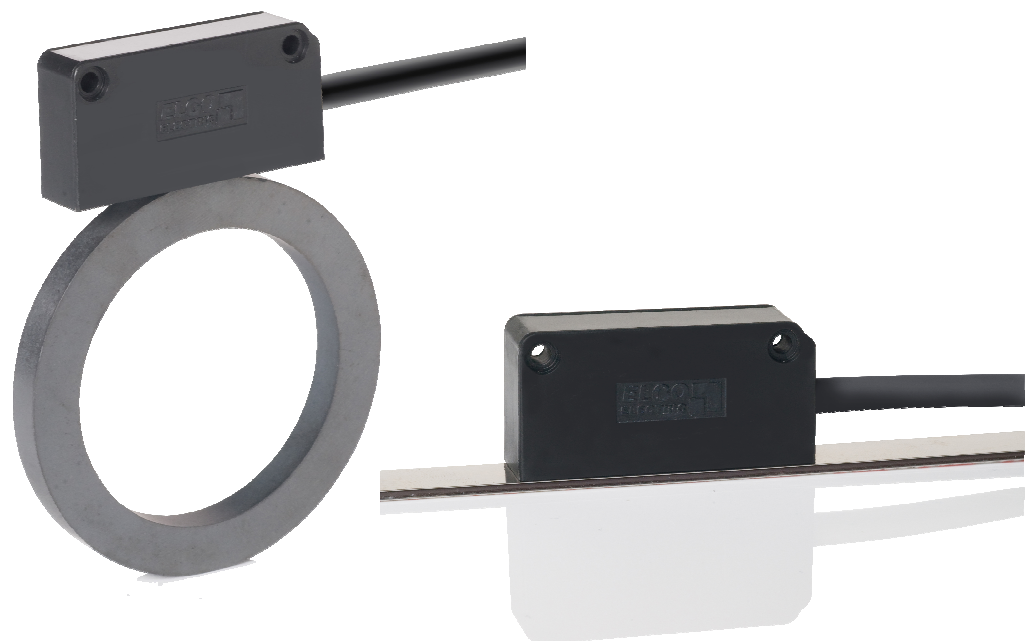


RMIX2



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:

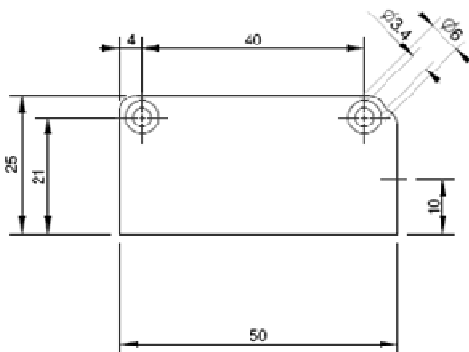
- Direct contact-free measurement
- The distance between sensor and magnetic tape/magnetic ring can be between 0,1 and 0,6 mm
- Measuring length theoretically unlimited
- Resolution 0,1 mm (0,025 mm at 4-edge triggering)
- Standard ring diameter 72 mm, 38 mm and 19,75 mm available (different sizes on request)
- Repeat accuracy +/- 0,1 mm
- Very robust against dirt

Technical specifications:

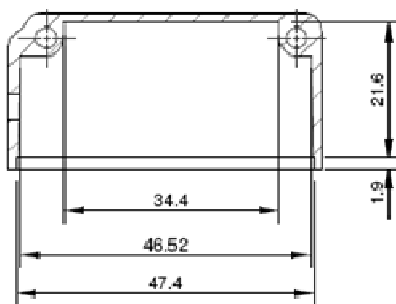
Mechanical data	
Measuring principle	Incremental
Repeat accuracy	+/- 0,1 mm
System accuracy in μm at 20 °C	+/- (25 + 20 x L) (L= measuring length in meter)
Distance sensor - tape/ring	max. 0,6 mm
Pole length	2 mm
Housing dimensions	50 x 25 x 12 mm
Required magnetic tape	MB20-20-10-1-R
Max. measuring length	theoretically unlimited
Contact termination	Open cable end
Weight	70 g
Environmental conditions	
Operation temperature	-10... +70 °C (higher on request)
Storage temperature	-35... +85 °C
Protection class	IP 67
Electronic data	
Power supply	10... 30 VDC / 5 VDC
Ripple	+/- 2,5 %, ripple < 50 mV
Current consumption	10... 30 VDC, max. 150 mA / 5 VDC: 200 mA
Output signals	A, B, Z
Output level	HTL / TTL
Resolution (4-edge triggering)	0,1 mm (0,025 mm at 4-edge triggering)
Index pulse	4 mm periodically
Max. output frequency per channel	200 kHz / channel A or B
Max. drive speed	20 m/s (linear), 300,000 rpm /number of pole pairs
Sensor cable	max. cable length 30 m

Dimensions:

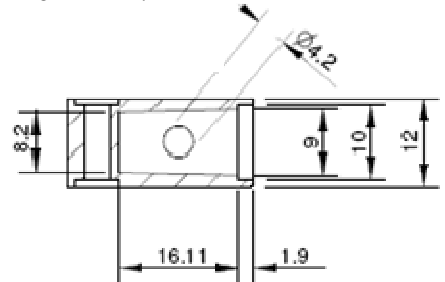
Front view:



Back view:



Side view:



Accessories:

MB20-20-10-1-R

Magnetic tape for RMIX2

Magnetic tape end cap 10 mm - set

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:

RMIX 2 - $\overline{A} \overline{A} \overline{A} - \overline{B} \overline{B} \overline{B} - \overline{C} \overline{C} \overline{C} \overline{C} - \overline{D} \overline{D}$

A SN-Number

000 ELGO standard

001 First special version

B Signal cable length (in XX.X meter)

01.5 1.5 m (standard length)
(different cable lengths on request)

C Resolution

0025 25 μm (4-edge triggering)

D 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 - $\underline{000} - \underline{01.5} - \underline{0025} - \underline{01}$
 $\underline{A} \underline{A} \underline{A} - \underline{B} \underline{B} \underline{B} - \underline{C} \underline{C} \underline{C} \underline{C} - \underline{D} \underline{D}$

RMIX2 ELGO standard, with 1.5 m signal cable length, 0,025 mm resolution, 10-30 VDC / 5 V-TTL line driver supply / output levels.

Your order:

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

