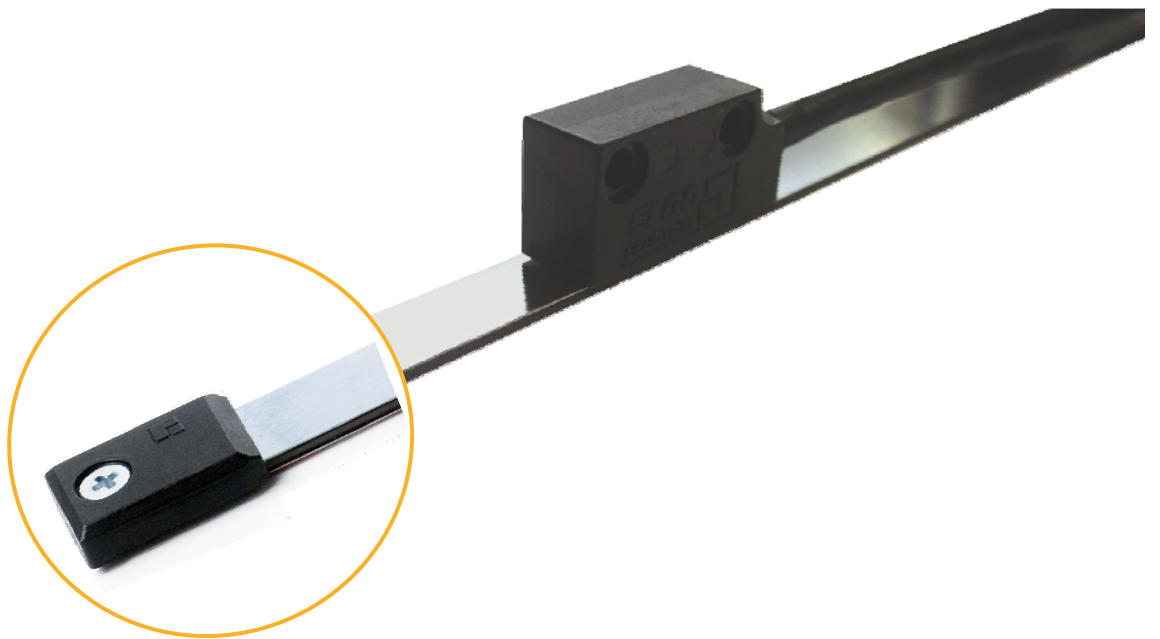


DMIX1



Magnetic incremental measuring system
with 1.00 mm resolution

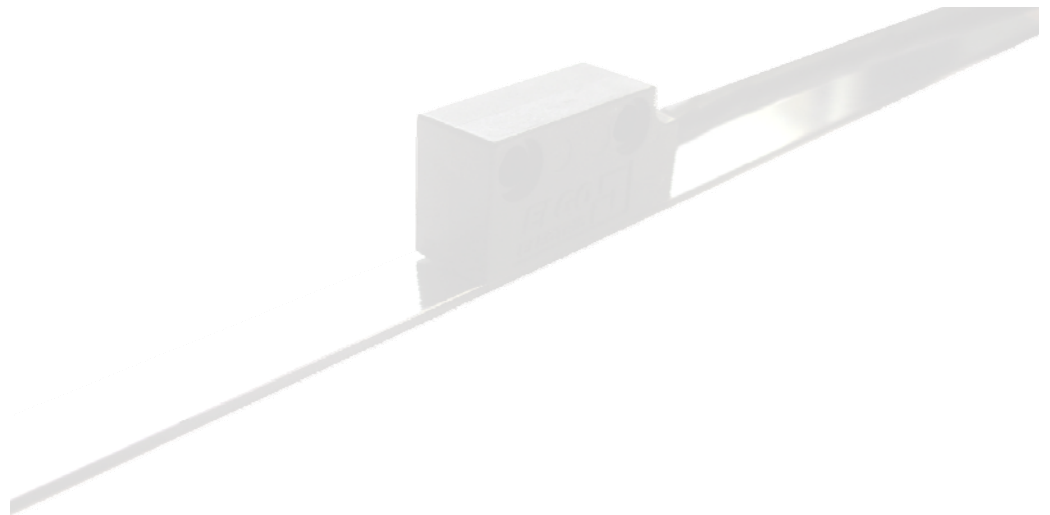
DMIX1 Magnetic measuring system with 1.00 mm resolution

General: The DMIX1 is an incremental magnetic length measuring system. The sensor technology and translator are placed in two different housings (sensor in sensor head and translator unit in external Sub-D connector). The magnetic tape can also be fixed into a guide rail with the provided adhesive tape. The DMIX1 can be installed up to a maximum distance of 10.0 mm from the magnetic tape.

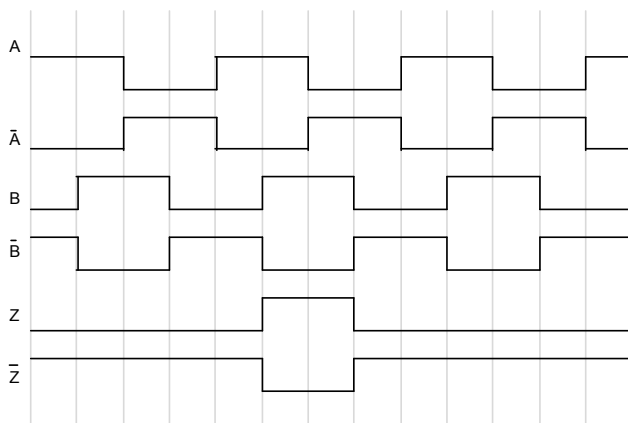
A, A', B, B', Z, Z' signals are available.

Wichtige Merkmale:

- Direct contact free measurement
- The distance between sensor and magnetic tape can be between 0.1 and 10.0 mm
- Measuring theoretically unlimited
- Resolution up to 1,00 mm
- Repeat accuracy +/- 1 increment
- Very robust against pollution



Pulse diagram:



The channels A and B are 90° phase-shifted

The output of the index pulse carried out periodically every 16 mm

Technical specifications:

Power supply	10... 30 VDC / 5 VDC
Power consumption	10... 30 VDC: max. 150 mA / 5 VDC: 200 mA
Signal level	10... 30 V HTL / 5 V-TTL
Resolution	1.00 mm
Repeat accuracy	+/- 1 increment
Max. operation speed	20 m/s
Output signals	A, A', B, B', Z, Z'
Measuring length	Theoretically unlimited
System accuracy in μm at 20 °C	+/- (1000 + 20 x L) L= measuring length in meter
Operating temperature	-10... +70 °C (-25... +85 °C) on request
Storage temperature	-25... +85 °C
Humidity	Non-condensing, max. 80%
Protection class	IP67
Mechanical data sensor	DMIX-housing: 30 x 10 x 15 mm
Cable	
Length	Max. 30.0 m, drag-chain suitable wires: 6 x 0.08 mm ²
Bending radius	Min. 60 mm

Order reference:

For orders please use the following order code:

DMIX - - - -

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

1000 1.00 mm (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:

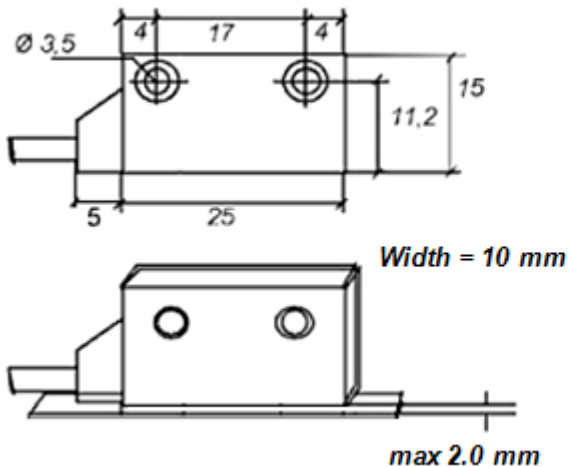
DMIX - 000 - 01.5 - 1000 - 01
A A A - B B . B - C C C C - D D

DMIX ELGO standard, with 1.5 m signal cable length, 1.00 mm resolution, 10-30 VDC / 5 V-TTL line driver supply / output levels.

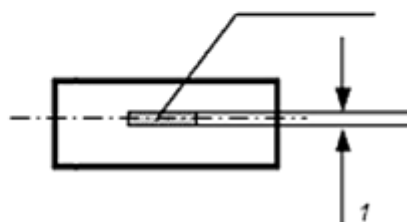
Your order:

DMIX - - - - -

Dimensions Sensor Head:



Bottom side X = active sensor area



Accessories:

MB20-160-10-1-R1

Magnetic tape for DMIX

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

