

FMAX



Guided Absolute Length Measuring System

General: The magnetic absolute length measuring system *FMAX* consists of the guide rail with integrated magnetic tape and a guide carriage, in which the three sensors and the translator are accommodated. The advantage of the absolute measurement is that position modifications are detected also in the dead status. This is a substantial safety aspect.

As interfaces for the time being RS422 and RS232 are available. Further planned SSI, CAN open, PROFI-Bus DP and RS485. All interfaces are accommodated in the housing with the sensors and the translator.

The resolution of the system amounts to 0.01 mm. With the max. measuring length of 650 mm it can be used with short length-movements, where a reference run is not possible or required. At the same time it offers the advantage of the complete guidance, which brings a substantially smaller expense of installation with itself.

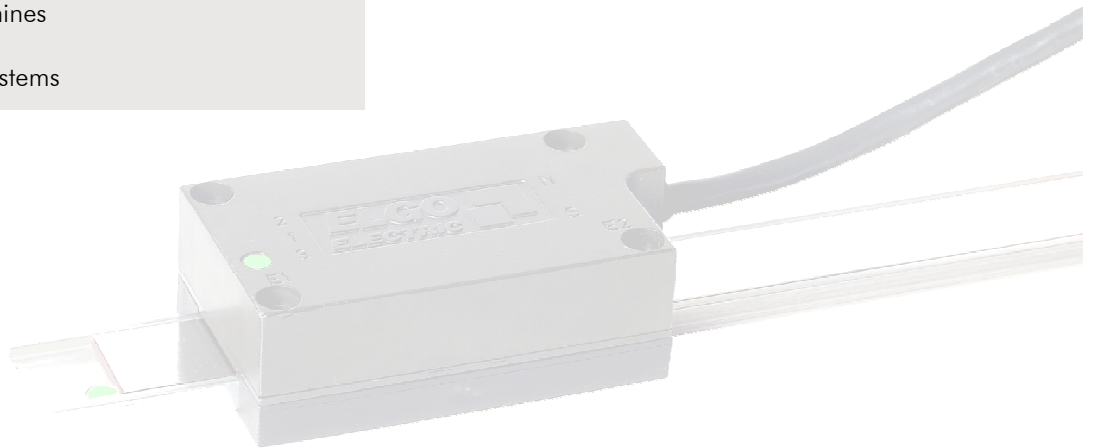
Function principle: Three sensors sliding across a magnetic tape with following north- and south pole magnetization, described with three tracks. Due to the different lengths of the three magnetic tracks always develops a same phase offset which supplies the absolute value together with the signals of the sensors. Coding on the magnetic tape repeats itself all 650 mm.

Product features:

- No reference necessary
- Direct measuring
- Measuring lengths up to 650 mm
- High resolution of 0,01 mm
- Repeating accuracy +/- 0,01 mm
- Very robust against dust and dirt
- Easy installation

Applications:

- Handling systems
- Conveyor- and storage techniques
- Paper cutting machines
- Hydraulic presses
- Pick and Place - Systems



Fine interpolation track

Fine interpolation track

Fine interpolation track

Accessories:

AB20-50-20-3-R Magnetic tape

FSMAB Guiding rail

