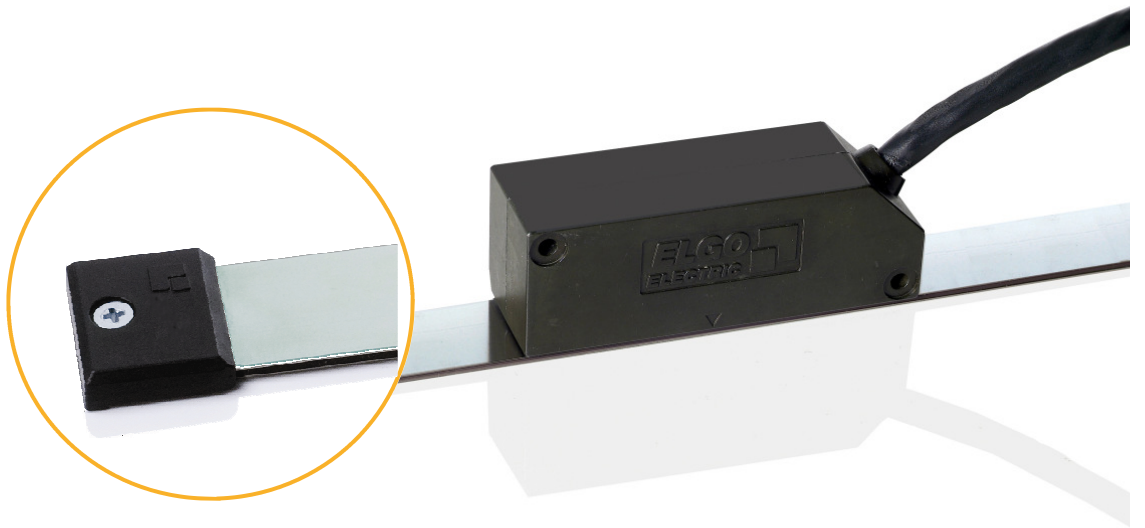


EMAX



Absolute Length Measuring System

EMAX Absolute Length Measuring System

General: Two sensors are guided above a two-track encoded magnetic tape with one fine interpolation track and one absolute track. The absolute track supplies with a sensor line an absolute value and the fine interpolation track supplies with the interpolation electronic the resolution of 0.01 mm.

The sensor technology is placed in a mechanical zinc die cast case and is conceived for rough industrial use. In the casted version the high protection category of IP67 is fulfilled. A considerable advantage of the system is that the sensor head has not to be slid rigidly, but can be moved in an distance between 0 to 0.8 mm above the magnetic tape.

Difference EMAX / EMAX with FW2080

EMAX consists of the components sensor head and the magnetic tape. The EMAX with FW2080 is guided. The guide rail with the magnetic tape and the guide carriage are included in the delivery.

The magnetic tape of *FW2080* is factory-bonded in the nut of the aluminum guide rail (possible up to 2 m). In order to realize longer ways, several rails could be arranged in one row. Then the magnetic tape will be delivered in the desired length (as roller ware up to 32 m) and will be fixed afterwards, in the whole length, into the nuts of the arranged rails. On this aluminum guide rail again the sensor, provided with slide-plastic-rails can be moved abrasion-free and contactless.

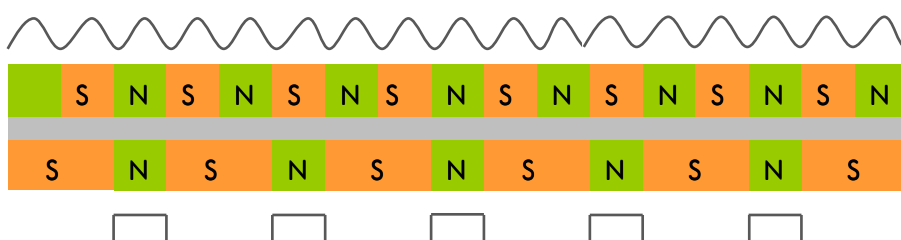
Product features:

- Absolute measuring
- Contactless
- Up to 10 m
- Resolution 0.01 mm
- Position changes are also in the current state recognized
- no oak trees necessary



Measuring principle of the magnetic tape

Two-track system (Fine interpolation track up / Absolute track below)



Accessories:

AB20-50-20-2-R	Magnetic tape for EMAX
Magnetic tape end cap 20 mm - Set	2 end caps (20 mm) and 2 M3 screws; additional fixation in the radial and linear area, as well as a protection of the magnetic tape ends <u>Order No. 731031003</u>
Magnetic tape end cap 20 mm	1 end cap (20 mm) <u>Order No. 731031001</u>
FW2080	Carriage for EMAX
FS-	Guide rail (Length in mm)
PNO1	SSI/ Profibus Converter

