

When contactless is the better connection:

Economy linear encoders from TR Electronic

Contactless, wear-free, reliable

The magnetostrictive linear encoders from TR Electronic operate without contact and are therefore completely wear-free. A moving permanent magnet transmits the position to the measuring system – either guided directly by the customer's design or via a magnetic slide that is moved by the machine using ball joint shafts. The flat design in a robust profile housing allows direct mounting on the machine body and ensures easy integration into existing designs.

The new Economy family – compact and cost-efficient

With a typical resolution of 0.1 mm, the Economy series is ideal as a replacement for wear-prone linear potentiometers. The analog interface allows direct retrofitting without changes to the control system. SSI and IO-Link are available for digital applications – for reliable and standardized transmission of position values. Those who want to implement complex automation systems benefit from EtherCAT integration, which enables fast and deterministic communication.

Versatility for every application

Whether for simple position detection or sophisticated motion control, TR Electronic's magnetostrictive linear encoders offer a wide range of interfaces and mechanical variants. The systems are insensitive to contamination, operate independently of speed and direction, and deliver absolute position values at all times – without the need for a reference run.

With the Economy family, TR Electronic is sending a clear message: high-quality position measurement does not have to be expensive. The new devices combine robustness, precision, and cost-effectiveness – making it particularly easy to get started with non-contact measurement technology.

Economy linear encoders made by TR Electronic:

<https://www.tr-electronic.com/s/S026599>

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Non-contact linear sensor as potentiometer replacement with analog interface from TR Electronic.