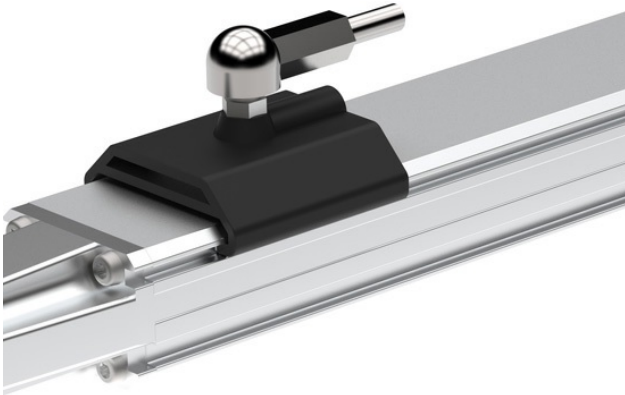


LINEAR DISPLACEMENT MEASURING SYSTEM

## Conformant to CiA 301 and CiA 406

**TR-Electronic has developed the LMPS 34 series of measuring devices. They are available with CANopen connectivity.**



*Measures up to three positions (Source: TR-Electronic)*

The contactless linear displacement measuring systems based on magnetostriction detect the position of moving machine parts. It is wear-free. Since several years, TR-Electronic offers the high-end solution LM\_I 46 with resolutions of 0,001 mm and the cost-effective LM\_B 48 in the measuring range 2,5 m with a resolution of 0,1 mm. The recently launched LM\_S 34 closes gap between these two legacy series. This product provides a flat profile housing for machine installation. Measuring lengths are available up to 3 m in increments of 5 mm.

These measurement units achieve a resolution of 0,01 mm. Like all magnetostrictive measuring systems from the supplier, the introduced sensors work wear-free. A movable permanent magnet transmits the position. These magnets are available as sliders that slide on the profile housing of the LMRS 34 or as block magnets, which have to be guided by the mechanics of the

measured axis. The latter solution even allows for "overriding" of the sensor end. This makes it possible to realize innovative machine concepts in which the same sensor system is used e.g. be used for precise positioning of different work-piece carriers in a processing cell.

Via the CANopen interface, three magnets send their position values. They can be used to detect the position of up to three carriages of a linear axis with only one sensor. Zero point, scaling and counting direction can be set. Depending on the interface, this is done via a set input, via the service interface, or directly via CANopen. The products provide additional actual values about the status of the measuring system.

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