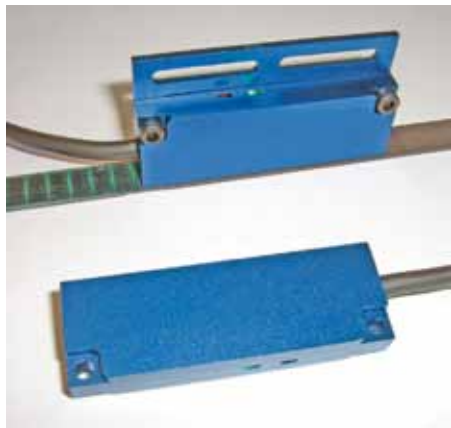


Programmable Magneto Resistive Encoder ED32



▲ ED32 with optional adaptor plate over magnetic scale

Measurement Specialties Inc. introduces a programmable encoder based on magneto resistive technology in the third quarter of 2009. The contactless measuring principle can be used in incremental as well as absolute displacement measurements. In

order to do that, the encoder scans a magnetized scale made of alternating north and south poles, where air gaps up to 2 mm are possible between scale and encoder. The encoder has an internal signal evaluation unit and provides directly A/B quadrature output or SSI interface. The special arrangement of the AMR sensors allows a very fine resolution within few micrometers range, even at high travel speeds. With an optional adaptor plate, special mounting possibilities for customer are enhanced. A special feature of the ED32 is the possibility to program parameters or firmware update, even after installation on site, with an optional programming device. In this manner, a new way is opened to full customized encoders, where ED32-encoders can be adapted depending on customer requests, also after full assembly. With the

programming interface, a wide range of modifications are available.

Among them, it is possible to set up the resolution continuously, the hysteresis, minimum and maximum amplitude limits (to monitor the distance between the scale and the encoder). The reference mode allows choosing one or periodic reference points, and the length of the reference pulse can also be adjusted. With this new generation of encoders, the ED32 gives the chance to combine signal conditioning and customer specific evaluations with a fully customized firmware.

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