RENISHAW
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New linear magnetic encoders are ideal for harsh environments, tight spaces and measuring lengths to 100 metres

Renishaw's new LM13 linear magnetic encoders developed by its associate company RLS d.o.o. bring big performance to small spaces and tough applications. Consisting of only a readhead and separate self-adhesive scale, the LM13 gives OEM designers an ultra-compact package that's ideal for industry's toughest applications. Magnetic sensing delivers dependability in applications too dusty, dirty, greasy or destructive for optical encoders.

Engineered for extreme service, LM13 encoders handle operating temperatures from 10 °C to 80 °C, providing waterproof sealing to IP68 and high resistance to shock, vibration and pressure. Frictionless operation eliminates wear, while reducing system inertia and hysteresis for high precision at high speeds and accelerations.

LM13 linear magnetic encoders produce a digital, square-wave signal output to RS422, with 9 customer-selectable resolutions between 1 µm and 250 µm. The encoder comes with bidirectional reference that can be actuated by a preset mark integrated into the scale, or by adding a reference sticker on top of the scale using the self-aligning installation tool.

Simple to install, the LM13 features an integral set-up LED on the readhead, wide installation tolerances, and an applicator tool for the adhesive-backed scale. The scale is available either 'cut to length' or in lengths up to 100 metres in easy-to-handle coils.

The new Renishaw linear magnetic encoders join the proven family of magnetic rotary/ring encoders designed and manufactured by Renishaw's associate company RLS d.o.o., located in Slovenia.

As with all Renishaw products, a worldwide application support network and local inventory give confidence to system developers and OEM volume producers.

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