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New linear magnetic encoder range brings additional performance, durability and value to a wide range of applications

The LM10 linear encoder joins Renishaw's proven family of rotary magnetic encoders

The new LM10 linear magnetic encoder brings 100 m travel and fit-and-forget reliability to demanding high-speed, precision applications. The solid-state, non-contact design features a compact IP68 rated readhead that rides at up to 1.5 mm from the self adhesive magnetic strip scale.

The non-contact magnetic sensing delivers reliability in applications too dusty, dirty, greasy or destructive for optical encoders, while providing OEMs with major cost savings. Installation is simplified with an integral set-up LED, wide installation tolerances and an applicator tool for the scale/reference mark. The reference mark can either be ordered at a fixed position or it can be applied by the user with the applicator tool supplied.

Offering great application versatility, the LM10 linear magnetic encoder comes in digital or analogue output variants and offers a range of customer-selectable resolutions including 1, 2, 5, 10, 20, 50 and 100 µm options. The LM10 delivers high speed operation of up to 25 m/s (4 m/s at 1 µm resolution).

Engineered for service in extreme conditions, the solid-state LM10 linear encoder offers operating temperatures from -20 °C to 85 °C, water-proof sealing to IP68, together with high resistance to shock, vibrations, and pressure. The non-contact, frictionless design eliminates wear while reducing hysteresis for high precision at high speed and acceleration.

The LM10 linear magnetic encoders bring reliable solutions to applications in hostile environments such as woodworking, stone-cutting, sawing, metalworking, textiles, packaging, paper and converting, plastics processing, automation and assembly systems, laser/flame/water-jet cutting, electronic chip/board production, etc.

Manufactured in Slovenia by Renishaw's partner company RLS d.o.o., the LM10 linear magnetic encoder is supported worldwide through Renishaw's extensive global network of offices.

Further information on the LM10 can be found at www.rls.si