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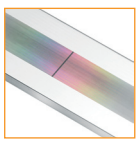
SiGNUM™ RSLM high accuracy scale for flat panel applications

Available in lengths up to 5 m

Robust steel scale is coilable for simple storage and handling

Total accuracy of better than ±4 µm over 5 m

Performance to rival delicate fine pitch glass scales



IN-TRAC™ auto-phase optical reference mark

Thermally stable, bi-directional reference mark

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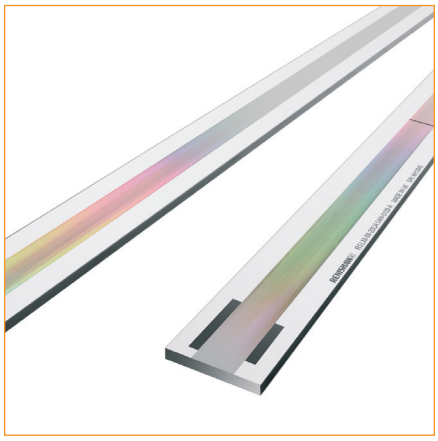
Renishaw's new RSLM spar scale provides the performance of a fine pitch encoder system yet retains all of the benefits of a 20 µm encoder. RSLM scale is available in defined lengths up to 5 m with an overall accuracy better than ±4 µm – an industry first! The system comprises the SR readhead, Si interface and 20 µm pitch RSLM stainless steel scale, which features the *IN-TRAC*™ optical reference mark. With cyclic error (SDE) of ±30 nm, unique filtering optics, resolution to 5 nm, and simple installation, RSLM is perfect for long travel applications where metrology cannot be compromised.



Manufactured from special composition stainless steel, RSLM has a coefficient of thermal expansion of 10.8 µm/m/°C and provides a high resistance to corrosion. SiGNUM™ RSLM is as accurate as fine pitch glass scale yet is as easy to use as a tape scale; it can be coiled for simple storage and handling yet once uncoiled behaves as a spar scale. The robust scale offers a much smaller cross section than typical glass scales, allowing easier handling and installation without risk of breakage.

- **Robust, yet highly precise, steel spar scale**
- **Total accuracy better than ±4 µm over 5 m**
- **Thermal expansion: 10.8 µm/m/°C**
- **Mounted using specially formulated adhesive tape or mechanical clips**
- **System cyclic error (SDE) typically ±30 nm**
- **Available in defined lengths up to 5 m**
- **Coilable for simple storage and handling**
- **Non-contact open optical system with excellent dirt immunity**
- **SiGNUM™ analogue and digital outputs now with resolutions down to 5 nm**
- **Speeds up to 12.5 m/s**
- **Single *IN-TRAC*™ reference mark or selectable reference mark every 200 mm**
- **Dual optical limits**
- **Integral LEDs for optimum set-up and system diagnostics**
- **SiGNUM™ software enables easy installation and real-time diagnostics via a PC's USB port**

For worldwide contact details, please visit our main website at www.renishaw.com/contact

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