

SALES & SERVICE:
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Easy-to-mount, high accuracy, compact LASERSCALE

- Compact scale and read head design meet a wide variety of needs.
- Compact for easy installation and high accuracy. Well suited for use with instruments which require high accuracy measurements such as electron microscopes and wafer inspection devices.
- Provides consistent measurements little affected by temperature, air pressure or disturbed air.
- Offers superior repeatability and return error thanks to noncontact measuring.

Specifications

Model	BS77
Measuring length L mm (inch)	10/30/70/120/170/220/270/320/370/420 (0.3/1.1/2.7/4.7/6.6/8.6/10.6/12.6/14.5/16.5)
Overall length mm (inch)	Measuring length +26 mm (L = 70 to 420) / 1.0" (L = 8.6" to 16.5")
Max. travel mm (inch)	Measuring length +10 mm (L = 70 to 420) / 0.3" (L = 8.6" to 16.5")
Accuracy (at 20 °C/ 68 °F)	NS type: ± 0.03 μm <measuring length 10/ 30 mm (0.3"/ 1.1")> ± 0.08 μm <measuring length 70/ 120 mm (2.7"/ 4.7")> ± 0.15 μm <measuring length 170/ 220 mm (6.6"/ 8.6")> ± 0.2 μm <measuring length 270 mm (10.6")> ± 0.34 μm <measuring length 320 mm (12.6")> ± 0.39 μm <measuring length 320 mm (12.6")> ± 0.44 μm <measuring length 420 mm (16.5")> N type: ± 0.06 μm <measuring length 10/ 30 mm (0.3"/ 1.1")> ± 0.2 μm <measuring length 70/ 120 mm (2.7"/ 4.7")> ± 0.35 μm <measuring length 170/ 220 mm (6.6"/ 8.6")> ± 0.5 μm <measuring length 270/ 320/ 370 mm (10.6"/ 12.6"/ 14.5")> ± 0.65 μm <measuring length 420 mm (16.5")>
Return error	± 0.02 μm
Repeatability	± 0.01 μm
Light source	Semiconductor laser
Expansion coefficient	-0.7 x 10 ⁻⁶ / °C
Operating temperature	10 °C to 30 °C (no condensation) / 50 °F to 86 °F
Storage temperature	-10 °C to 50 °C / 14 °F to 122 °F
Detection principle	Diffraction grating scan
Compatible detectors	BD15, BD60

Dimensions

