LASERSCALE

BS75A-NS/N BS76-NS/N

SALES & SERVICE:

A Tech Authority, Inc. 13745 Stockton Ave. Chino CA 91710 909-614-4522 sales@atechauthority.com High accuracy laser scales with a low expansion coefficient that provide reliable, high-precision measuring with a resolution selectable from 0.0086 μm* (BD15) and 0.1 μm (BD60)

- •Comparable to a laser interferometer in accuracy and resolution.
- •Accuracy: ± (0.025 + 0.1L) /100 µm or less (BS75A/ 76-NS Series)
 - \pm (0.05 + 0.2L) /100 μ m or less (BS75A/ 76-N Series)
 - ± (L = measuring length in mm)
- •Resolution: 0.0086 µm (with BD15)*
- •The scale glass used has an expansion coefficient of -0.7 x 10-6 °C
- •Measuring length: 30 mm to 410 mm / 1.18" to 16.14" (9 models)
- Easy installation
- •Little affected by disturbed air and changing atmospheric pressure.
- •Usable in vacuum of up to 10-5 Pa (BS76).
- *A resolution of 0.00028 µm is available using BD15-T detector.

Specifications

Model	BS75A-NS/N		BS76-NS/N	
	-30NS to -410NS	-30N to -410N	-30NS to -410NS	-30N to -410N
Measuring length L mm (inch)	30/60/110/160/210/260/310/360/410 (1.18/2.36/4.33/6.29/8.26/10.23/12.20/14.17/16.14)			
Overall length	L + 36 mm/ 1.4"			
Max. travel	L + 10 mm/ 0.39"			
Accuracy (at 20 °C /68 °F)	± (0.025 + 0.1L) / 100 μm	± (0.05 + 0.2L) / 100 μm	± (0.025 + 0.1L) / 100 μm	± (0.05 + 0.2L) / 100 μm
Resolution	0.0086 µm (with BD15)			
Return error	± 0.0086 μm (with BD15)			
Repeatability	± 0.0086 μm (2 σ) (with BD15)			
Expansion coefficient	-0.7 x 10 ⁻⁶ / °C			
Light source	Semiconductor laser			
Detection method	Diffracting grating scan			
Use in vacuum	_	_	Up to	10 ⁻⁵ Pa
Design	Exposed scale			
Operating temperature	10 °C to 30 °C /50 °F to 86 °F (condensation not allowed)			
Storage temperature	-10 °C to 50 °C / 14 °F to 122 °F			
Cable length	3 m/ 9.8'			
Mass	0.44/0.44/0.45/0.46/0.47/0.48/0.49/0.50/0.51 kg (0.97/0.97/1.00/1.01/1.04/1.06/1.08/1.10/1.12 lbs)			

Dimensions



