

# BS

BS65-R  
(with origin)

# 上海迈

High accuracy LASERSCALE™ with built-in optical zero point



Actual size

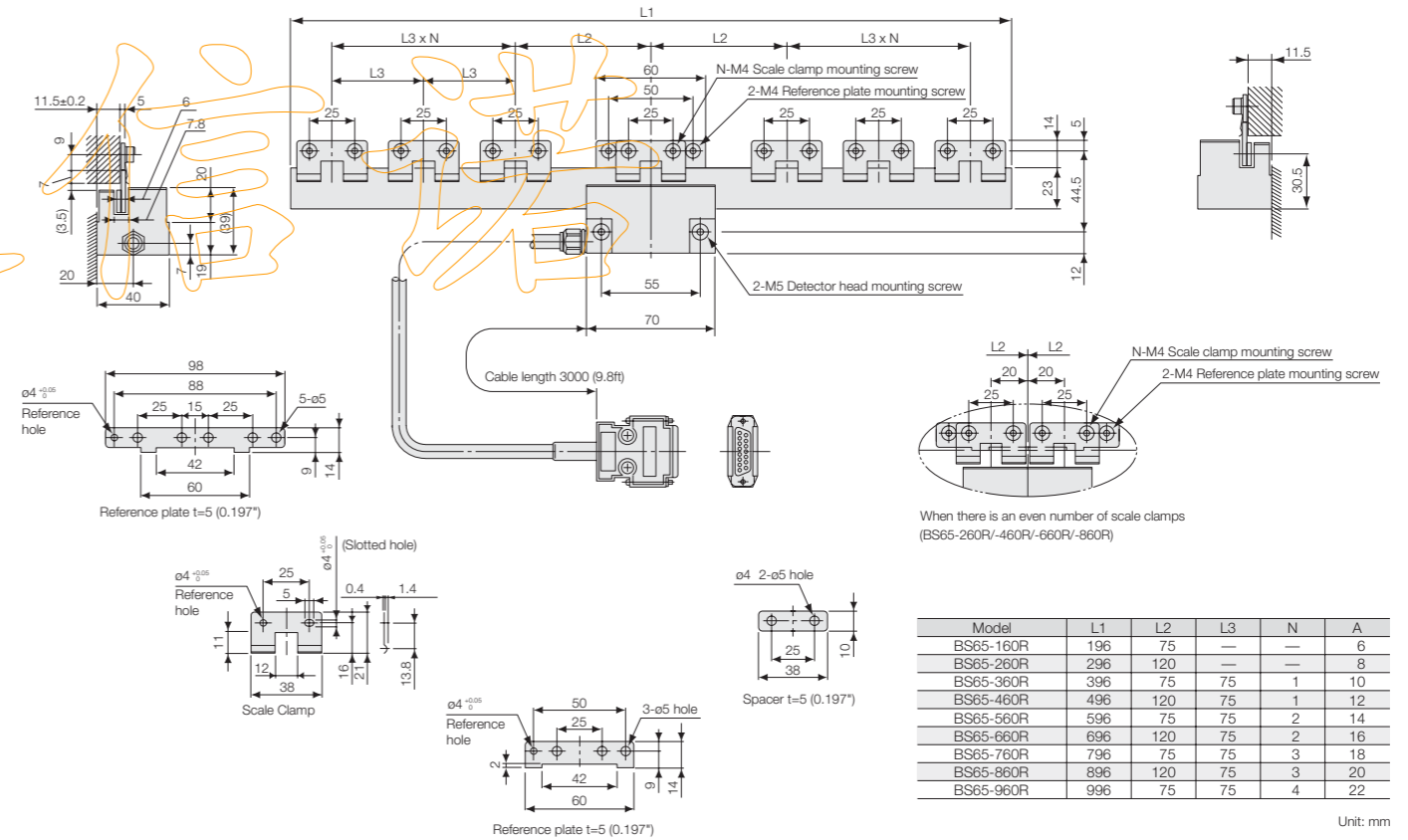
- Signal wavelength of 138nm,
- High accuracy, high resolution laser scale :  
Accuracy :  $L < 460 : (0.1 + 0.4L / 100) \mu\text{m p-p}$   
(L=measuring length in mm)
- Resolution : 0.07nm
- High accuracy optical reference point :  $\pm 0.1 \mu\text{m}$
- Measuring length : 160 mm to 960 mm / 6.29" to 37.79"
- Easy installation
- Little affected by disturbed air and changing atmospheric pressure.

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## External Dimensions

● BS65-xxxN(NS)(measuring length:160/260/360/460/560/660/760/860/960)



## Main specifications

Model	BS65-R
Measuring length	160/260/360/460/560/660/760/860/960
Overall length	Measuring length + 36mm
Max. travel length	Measuring length + 10mm (5mm on each side)
Accuracy (at 20°C)	$L < 460 : (0.1 + 0.4L/100) \mu\text{m p-p}$ $L \geq 460 : 3 \mu\text{m p-p}$ L : Measuring length (mm)
Reference point accuracy	$\pm 0.1 \mu\text{m}$
Reference point position	At the center, and every 50mm from the center to the left and to the right (BS78 models with measuring lengths of 320, 370, 420mm: 20mm offset from the center at 50mm intervals)
Reference point detection direction	Single direction
Return error	In principle, No Return error.
Repeatability	In principle, No Return error.
Temperature coefficient	$8 \times 10^{-6}/^\circ\text{C}$
Light source	Semiconductor laser Wavelength, 780nm, Maximum output 10nm
Radiation power	DHHS class 1
Detection type	Diffraction grating scan type
Operating temperature	10°C to 30°C (No condensation)
Storage temperature	-10°C to 50°C (Humidity less than 60%)
Weight (kg/lbs)	0.5kg to 1.0kg (including head)