

System parameter	SP 15000 C6 NG
Length measurement:	
Measuring range (on request up to 50 m)	15 m
Resolution	0.1 nm
Angle measurement:	
Measuring ranges of pitch and yaw angles	±5°
Resolution	0.005 µrad*
Measuring ranges roll angle measurement	±17,5 mrad
Resolution	0.9 µrad
Straightness measurement:	
Measuring range, lateral	±4 mm
Resolution	10 nm
Axial range	0.1 ... 4 m, optional 0.3 ... 10 m
Measuring uncertainty under stable conditions:	
Length measurement	±0.2 µm/m
Angle measurement	±0.04 % ± 0.04 µrad
Straightness measurement	±0,1 % ± 0,1·M ² ± 0,25 µm unidirektional ±0,1 % ± 0,1·M ² ± 0,1 µm bidirektional
Roll angle measurement	±2,4 µrad ±0,5% (19°C – 21°C) ±2,4 µrad ±1,5% (15°C – 25°C)
±0.xx % = proportion of the measured value M ² = Measuring distance in meters squared	
Beam distance (horizontal and vertical)	50 mm
Wavelength	632.8 nm
Frequency stability of the HeNe laser	2·10 ⁻⁸
Warm-up time of the HeNe laser	20 min
Operating temperature range	15 ... 30°C
Max. displacement speed of measuring reflector	500 mm/s
Geometric Data	
Dimensions (L x W x H):	
Sensor head with adjustable mount	[284 x 168 x 141] mm
Reflector unit	[74 x 81 x 88] mm
Straightness mirror	[132 x 103 x 812] mm
Electronic evaluation and supply unit EU	[450 x 450 x 150] mm
Roll angle sensor RAS 175 W	[74 x 54 x 77] mm
Mass:	
Sensor head with adjustable mount	5.2 kg
Reflector unit	585 g
Straightness mirror	600 g
Electronic evaluation and supply unit EU	11 kg
Roll angle sensor RAS 175 W	each 425 g

Calibration Interferometer

Serie SP 15000 C6 NG

Electrical Data	
Interfaces Standard other interfaces on request (/R)	USB
Cable length sensor head - electronics unit	6 m, optionally up to 10 m
Power supply	100 ... 240 VAC / 47 ... 63 Hz
Laser safety class according to EN 60825-1:2014 and ANSI Z136.1 (CDRH)	2M II

*least significant bit (LBS)

04/2024 · Subject to change.