

System parameter	SP 15000 C5	SP 15000 C5 with compact straightness
Length measurement: Measuring range (on request up to 50 m) Resolution		15 m 0.1 nm
Angle measurement: Measuring ranges of pitch and yaw angles Resolution		±5° 0.004 µrad
Straightness measurement Measuring range, lateral Resolution Axial range	±4 mm	±2 mm 10 nm 0.1...6.5 m
Measuring uncertainty under stable conditions: Length measurement Angle measurement Straightness measurement		±0.1 ppm ±0.04 % ± 0.009 arcsec ±0.1 % ± 0.1 · M <sup>2</sup> ± 0.1 µm
Beam distance (horizontal and vertical)		50 mm
Wavelength		632,8 nm
Frequency stability of the HeNe laser		2 · 10 <sup>-8</sup>
Warm-up time of the HeNe laser		20 min
Operating temperature range		15...30°C
Max. displacement speed of measuring reflector		500 mm/s
<b>Geometric Data</b>		
Dimensions (L x W x H): Sensor head with adjustable mount Reflector unit Straightness mirror (standard) Straightness mirror (up to 3.5 m axial range) Electronic supply and evaluation unit		[192 x 192 x 122] mm [104 x 62 x 104] mm [234 x 43 x 49] mm - [450 x 450 x 150] mm
		[74 x 70 x 74] mm [234 x 43 x 49] mm [110 x 33 x 30] mm [450 x 450 x 150] mm
Mass: Sensor head with adjustable mount Reflector unit Straightness mirror Electronic supply and evaluation unit	3.3 kg 850 g 1 kg 11 kg	3.3 kg 570 g 1 kg 11 kg
<b>Electrical Data</b>		
Interfaces Standard other interfaces on request		RS232C, 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

05/2022 · Subject to change.