

System parameter	SP 15000 C3
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	0.004 µrad
Measuring uncertainty under stable conditions:	
Length measurement	±0.1 ppm
Angle measurement	±0.04 % ± 0.009 arcsec
Straightness measurement	±0.1 % ± 0.1·M ² ± 0.1 µm
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	[192 x 192 x 122] mm
Reflector unit	[104 x 56 x 104] mm / [74 x 50 x 74] mm
Electronic supply and evaluation unit	[450 x 400 x 150] mm
Mass:	
Sensor head with adjustable mount	3.4 kg
Reflector unit	850 g
Electronic supply and evaluation unit	9.4 kg
Electrical Data	
Interfaces Standard	RS232C, USB
other interfaces on request	
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.