

Triple-Beam Interferometer

SP 5000 TR

System parameter	SP 5000 TR
Measuring range	0 m to ≥ 5 m
Resolution	20 pm*
Angular measuring ranges with reflector with plane mirror (recommended distance ≤ 2 m)	$\pm 12.5^\circ$ ** ± 1.5 arcmin
Angular resolution	0.002 arcsec***
Beam distances (horizontal and vertical)	12 mm
Wavelength	632.8 nm
Frequency stability of the HeNe laser (after warm-up time)	$2 \cdot 10^{-8}$
Warm-up time of the HeNe laser	10...20 min
Operating temperature range	15...30°C
Max. displacement speed of measuring reflector	3 m/s
Geometric Data	
Dimensions (L x W x H): Sensor head with adjustable mount Reflector Electronic evaluation and supply unit EU	[202 x 137 x 72] mm [45 x 45 x 20] mm [450 x 400 x 150] mm
Mass: Sensor head with adjustable mount Reflector Electronic evaluation and supply unit EU	1.9 kg 80 g ca. 8 kg
Electrical Data	
Interfaces standard other interfaces on request (/R)	RS232C, USB
Cable length between sensor head and electronics unit	3 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

*in frequency domain

**rotary point dependent

***least significant bit (LBS)

04/2020 · Subject to change.