

System parameter	SP 5000 TR
Measuring range	0 m to $\geq 5$ m
Resolution	20 pm*
Angular measuring ranges with reflector with plane mirror (recommended distance $\leq 2$ m)	$\pm 12.5^\circ$ ** $\pm 1.5$ arcmin
Angular resolution	0.002 arcsec***
Roll angle measuring range (optional with RAS 175 W)	$\pm 1^\circ$
Roll angle resolution (optional with RAS 175 W)	0.2 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
<b>Geometric Data</b>	
Dimensions (L x W x H): Sensor head with adjustable mount Reflector Electronic evaluation and supply unit EU Roll angle sensor RAS 175 W (optional)	[202 x 137 x 72] mm [45 x 45 x 20] mm [450 x 400 x 150] mm [74 x 54 x 77] mm
Mass: Sensor head with adjustable mount Reflector Electronic evaluation and supply unit EU Roll angle sensor RAS 175 W (optional)	1.9 kg 80 g ca. 8 kg 425 g
<b>Electrical Data</b>	
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)

05/2023 · Subject to change.