

Laser Interferometer SP-NG Series



System parameter	SP 5000 NG	SP 15000 NG
Measurement range (Maximum distance reflector - sensor head)	5 m	≤80 m
Resolution	5 µm	5 µm
Maximum tilting angle (Center of rotation in center of reflector) with plane mirror	±12.5° ±1.5 arcmin	±22.5° -
Wavelength	632.8 nm	
Frequency stability of HeNe laser (after warm-up time)	2·10 ⁻⁸	
Warm-up time of HeNe laser	10...20 min	
Operating temperature range	15...30°C	
Maximum displacement speed	3 m/s	

Geometric Data

Dimensions (L x W x H):		
Sensor head with adjustable mount	[133 x 91 x 54] mm	max. [227 x 91 x 67] mm
Reflector	Ø 15 mm x 15 mm	Ø 25 mm x 36 mm
Electronic supply and evaluation unit (standard)	[450 x 400 x 150] mm	
Electronic supply and evaluation unit (compact)	[250 x 400 x 150] mm	
Mass:		
Sensor head with adjustable mount	650 g	max. 820 g
Reflector	8 g	70 g
Electronic supply and evaluation unit (standard)	ca. 8 kg	
Electronic supply and evaluation unit (compact)	ca. 5.7 kg	

Electrical Data

Interfaces	standard other interfaces on request	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	