

Laser interferometric Vibrometer LSV-NG Series

System parameter	LSV 120 NG	LSV 120 NG/L	LSV 2500 NG
Measurable object frequency	0...5 MHz		
Amplitude measurement range (depending on surface)	≤±20 mm		
Resolution	5 µm		
Surface roughness	arbitrary		
Maximum displacement speed	3 m/s		
Working distance from sensor head	30...70, 240, 480 mm (fixed customized distance)	30...70, 240, 480 mm (changeable by customer)	240...2500 mm (continuously selectable)
Coherence maxima	-		240 mm + n·240 mm, n=0,1,2...
Wavelength	632.8 nm		
Frequency stability of HeNe laser (after warm-up time)	≤3·10 ⁻⁷		
Warm-up time of HeNe laser	approx. 10 min		
Operating temperature range	15...30°C		
Geometric Data			
Dimensions (L x W x H):			
Sensor head with adjustable mount	[133 x 91 x 54] mm	[147 x 96 x 60] mm	[209 x 96 x 58] mm
Electronic evaluation and supply unit EU (standard)		[450 x 400 x 150] mm	
Electronic evaluation and supply unit EU (compact)		[250 x 400 x 150] mm	
Mass:			
Sensor head with adjustable mount	660 g	700 g	800 g
Electronic evaluation and supply unit EU (standard)		ca. 8 kg	
Electronic evaluation and supply unit EU (compact)		ca. 5.7 kg	
Electrical Data			
Interfaces Standard	RS232C, USB		
other interfaces on request (/R)	optional output for displacement: ±3V		
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		

07/2020 · Subject to change.