

13LNM40-S1000-7+90CM-639-6-H18-M60-C-6

Macro Line Generator with a fan angle



FEATURES

Laser line with a fan angle, approx. uniform intensity distribution and extended depth of focus.

Line width: 132 µm
Wavelength: 639 nm
Working distance: 963.5 mm
Depth of focus: 58.1 mm

■ Line length: 300 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LNM40-S1000-7+90CM-639-6-H18-M60-C-6 has a fan angle of 16.8° , approx. uniform intensity distribution along the laser line and extended depth of focus.

More precisely, it is Gaussian clipped by an aperture with an edge intensity of 87 %. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics $\underline{type\ C}$ for control of the laser output power. The output power can be controlled using the $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}}$ or manually using the potentiometer.

For this laser type the working distance is fixed. A fine-adjustment of the distance between laser and target is recommended for fine-focusing in order to achieve minimal line width.



TECHNICAL DATA

13LNM40-S1000-7+90CM-639-6-H18-M60-C-6

Line profile Constant Intensity Distribution Line type Laser Macro Line Wavelength 639 ±10/-10 nm Laser output power 6 mW Laser safety class 3E Fan angle α 16.8 deg Focussing range 963.5-963.5 mm Working distance 963.5 mm Line length 300 mm Line width 0.132 mm Depth of focus 58.1 mm Edge intensity 87 % Diameter laser module 25/28 mm Module length 134.4 mm Installation length 1.5 m Connector type Lumberg SV50 IEC 61076-2-106 Supply voltage 5 ± 0.2 V Max. current consumption 0.25 A Working temperature 0 - 40 °C Modulation inputs Analog TTL Input resistance 22 kOhm 22 kOhm	Series	es 13LNM40		
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Modulation inputsAnalogTTLInput resistance22 kOhm22 kOhm	Max. current consumption	0.25 A		
Input resistance 22 kOhm 22 kOhm	Working temperature	0 - 40 °C		
	Modulation inputs	Analog	TTL	
Max. modulation frequency 100 kHz 100 kHz	Input resistance	22 kOhm	22 kOhm	
	Max. modulation frequency	100 kHz	100 kHz	
Modulation delay ON/OFF1/0.5 μs2/1 μs	Modulation delay ON/OFF	1/0.5 μs	2/1 μs	
Rise / Fall time 3/2 μs 3/2 μs	Rise / Fall time	3/2 μs	3/2 µs	



DOWNLOADS



ACCESSORIES

9D-12 Screwdriver WS 1.2

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 13LN Micro Line, small fan angleUniform intensity distribution

Thin lines

LASER MODULES SERIES LNC-13LNM Macro Line Generator, small fan angle

Uniform intensity distribution

Extended depth of focus

Low noise

LASER MODULES SERIES 13LRM Macro Line Generator, fan angleUniform intensity distribution

Extended depth of focus

LASER MODULES SERIES 5LMM+25CM ■ Compact Micro Line, small fan angle

Gaussian intensity distribution

Extended depth of focus

LASER MODULES SERIES 5LPM+25CM Compact Macro Line, large fan angle

Gaussian intensity distribution

Extended depth of focus

LASER MODULES SERIES 5LMM Macro Line, small fan angle

Gaussian intensity distribution

Extended depth of focus

LASER MODULES SERIES 5LPM Macro Line, large fan angle

Gaussian intensity distribution

Extended depth of focus



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