

13LNM165-S1000-7+90CR-660-38-M25-M60-P-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 length: 80 mm
Line width: 136 µm
Wavelength: 660 nm
Working distance: 964.5 mm

■ Depth of focus: 60 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LNM165-S1000-7+90CR-660-38-M25-M60-P-6 has a fan angle of 3.8°, 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 64 %. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics <u>type P</u> with micro-controller for control of the laser output power. The output power can be controlled using the <u>modulation input ports (TTL and analog)</u> 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

13LNM165-S1000-7+90CR-660-38-M25-M60-P-6

Series	ries 13LNM165	
Order Code	13LNM165-S1000-7+90CR-660-38-M25-M60-P-6	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	660 +4/-6 nm	
Laser output power	38 mW	
Laser safety class	3B	
Fan angle α	3.8 deg	
Focussing range	964.5-964.5 mm	
Working distance	964.5 mm	
Line length	80 mm	
Line width	0.136 mm	
Depth of focus	60 mm	
Edge intensity	64 %	
Diameter laser module	25/28 mm	
Module length	118.4 mm	
Installation length	1082.9 mm	
Cable 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	15 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.01 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs
Rise / Fall time	40000/40000 μs	0.5/0.5 μs
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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 distributionExtended depth of focus

Low noise

LASER MODULES SERIES 13LRM Macro Line Generator, fan angle
 Uniform 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 angleGaussian intensity distribution

Extended depth of focus

LASER MODULES SERIES 5LPM Macro Line, large fan angleGaussian intensity distribution

Extended depth of focus



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