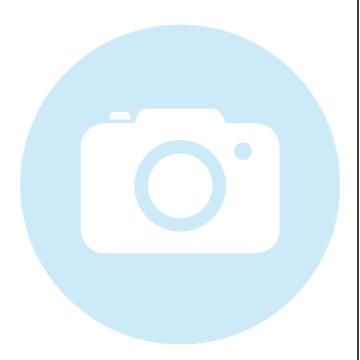


### 13LN165-S500+90CM-660-54-M25-M60-P-6

Micro Line Generator with a fan angle



#### **FEATURES**

Laser line with a fan angle, approx. uniform intensity distribution and very thin lines.

Line length: 40 mm
Line width: 30 μm
Wavelength: 660 nm
Working distance: 424 mm

 Micro Line Generator for small laser line widths and high power density in the focal plane



### DESCRIPTION

The laser diode beam source type 13LN165-S500+90CM-660-54-M25-M60-P-6 has a fan angle of 3.4° and approx. uniform intensity distribution along the laser line.

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 line width is constant along 60 % of the central are, outside this area the line width differs up to 30 %.

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**

13LN165-S500+90CM-660-54-M25-M60-P-6

Laser safety class  Fan angle α 3.  Focussing range 424-42  Working distance 42  Line length 4  Line width 0.0  Rayleigh range 2.1  Edge intensity  Diameter laser module 25/2  Module length 121.	oution Line -6 nm 4 mW 3B
Line typeLaser MicroWavelength660 +4/Laser output power5Laser safety class3Fan angle α3Focussing range424-42Working distance42Line length4Line width0.0Rayleigh range2.1Edge intensity25/2Module length121.	Line -6 nm 4 mW 3B 4 deg 4 mm
Wavelength660 +4/Laser output power5Laser safety class3Fan angle α3.Focussing range424-42Working distance42Line length4Line width0.0Rayleigh range2.1Edge intensity25/2Module length121.	-6 nm 4 mW 3B 4 deg 4 mm
Laser output power5.Laser safety class3.Fan angle α424-42Working distance42Line length4Line width0.0Rayleigh range2.1Edge intensityDiameter laser module25/2Module length121.	4 mW 3B 4 deg 4 mm
Laser safety classFan angle α3.Focussing range424-42Working distance42Line length4Line width0.0Rayleigh range2.1Edge intensity25/2Module length121.	3B 4 deg 4 mm
Fan angle α3.Focussing range424-42Working distance42Line length4Line width0.0Rayleigh range2.1Edge intensityEdge intensityDiameter laser module25/2Module length121.	4 deg 4 mm
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Working distance 42 Line length 4 Line width 0.0 Rayleigh range 2.1 Edge intensity Diameter laser module 25/2 Module length 121.	
Line length 4 Line width 0.0 Rayleigh range 2.1 Edge intensity Diameter laser module 25/2 Module length 121.	4 mm
Line width 0.0  Rayleigh range 2.1  Edge intensity  Diameter laser module 25/2  Module length 121.	
Rayleigh range 2.1  Edge intensity  Diameter laser module 25/2  Module length 121.	0 mm
Edge intensity  Diameter laser module 25/2  Module length 121.	3 mm
Diameter laser module 25/2  Module length 121.	4 mm
Module length 121.	64 %
·	8 mm
Installation length 575.	9 mm
	9 mm
Cable length	1.5 m
Connector type Lumberg SV50 IEC 61076-	2-106
Supply voltage 5 ±	0.2 V
Max. current consumption	.25 A
Working temperature 15 -	40 °C
Modulation inputs Analog	TTL
Input resistance 9 kOhm 9 k	Ohm
Max. modulation frequency0.01 kHz25	0 kHz
Modulation delay ON/OFF3000/3000 μs0.5/0	
Rise / Fall time         40000/40000 μs         0.5/0	).2 µs

## **ACCESSORIES**

**9D-12** Screwdriver WS 1.2



PS051003E Power Supply 5 V

### **RELATED PRODUCTS**

LASER MODULES SERIES 13LNM Micro Line Generator, small fan angle

Uniform intensity distribution

Extended depth of focus

LASER MODULES SERIES LNC-13LN Micro Line, small fan angle

Uniform intensity distribution

Thin lines

Low noise

LASER MODULES SERIES 13LR Micro Line Generator, fan angle

Uniform intensity distribution

LASER MODULES
SERIES 5LM+25CM

■ Compact Micro Line, small fan angle

Gaussian intensity distribution

LASER MODULES SERIES 5LP+25CM ■ Compact Micro Line, large fan angle

Gaussian intensity distribution

LASER MODULES SERIES 5LM Micro Line, small fan angle

Gaussian intensity distribution

LASER MODULES SERIES 5LP Micro Line, large fan angle

Gaussian intensity distribution



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