13LT-500+90CM-520-29-O11-M60-PS-7

Semi-telecentric Micro Line Generator

FEATURES

Semi-telecentric laser line with constant line length 15mm and approx. uniform intensity distribution.

- Line length: 15 mm
- Line width: 30 µm
- Wavelength: 520 nm
- Working distance: 493 mm

- Micro Line Generator for small laser line widths and high power density in the focal plane
- With RS232 interface

DESCRIPTION

The laser diode beam source type 13LT-500+90CM-520-29-O11-M60-PS-7 produces a semi-telecentric laser line with 15 mm line length. The intensity profile is approx. uniform in line direction. More precisely, it is Gaussian clipped by an aperture with an edge intensity of 77 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics type PS with micro-controller for control of the laser output power and serial interface (RS232). The output power can be controlled using the modulation input ports (TTL and analog) or manually using the potentiometer.

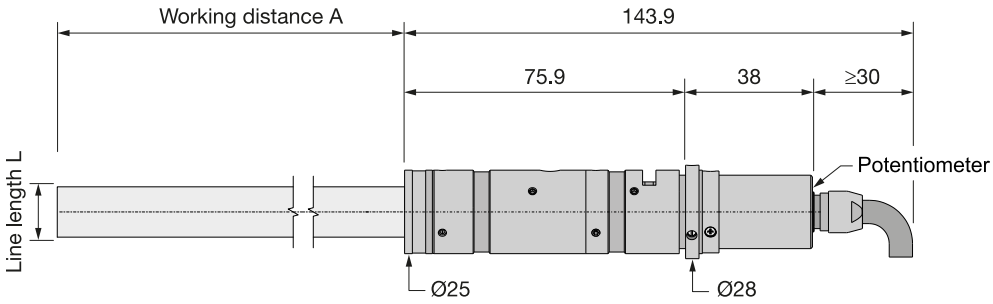
For this laser type the working distance is fixed. A fine-adjustment of the distance between laser and target is recommended for fine-focusing in order to achieve minimal line width.

TECHNICAL DATA

13LT-500+90CM-520-29-O11-M60-PS-7

Series		13LT
Order Code		13LT-500+90CM-520-29-O11-M60-PS-7
Line profile		Constant Intensity Distribution
Line type		Laser Micro Line
Wavelength		520 +10/-5 nm
Laser output power		29 mW
Laser safety class		3B
Focussing range		493-493 mm
Working distance		493 mm
Line length		15 mm
Line width		0.03 mm
Rayleigh range		2.73 mm
Edge intensity		77 %
Diameter laser module		25/28 mm
Module length		121.9 mm
Installation length		644.9 mm
Cable length		1.5 m
Connector type		Lumberg SV70 IEC 61076-2-106
Supply voltage		5 ± 0.2 V
Max. current consumption		0.5 A
Working temperature		15 - 40 °C
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 µs	0.6/0.2 µs
Rise / Fall time	200000/200000 µs	0.2/0.2 µs
Interface		RS232

Dimensions (for a complete dimensional drawing please refer to the downloads section)



DOWNLOADS

951210000053.pdf

ACCESSORIES

9D-12	Screwdriver WS 1.2
PS051007E	Power Supply 5 V for laser modules with RS232 interface

RELATED PRODUCTS

LASER MODULES SERIES 13LTM

- Semi-telecentric Macro Line
- Uniform intensity distribution
- Constant line length **15 mm**
- Extended depth of focus

LASER MODULES SERIES LNC-13LT

- Semi-telecentric Micro Line
- Uniform intensity distribution
- Constant line length **15 mm**
- Low noise

LASER MODULES SERIES 5LT-1+25CM

- **Compact** semi-telecentric Micro Line
- Gaussian intensity distribution
- Constant line length ca. **4.8 mm**

LASER MODULES SERIES 5LT-2+25CM	▪ **Compact** semi-telecentric Micro Line ▪ Gaussian intensity distribution ▪ Constant line length ca. **2 mm**
LASER MODULES SERIES 5LT-1	▪ Semi-telecentric Micro Line ▪ Gaussian intensity distribution ▪ Constant line length ca. **4.8 mm**
LASER MODULES SERIES 5LT-2	▪ Semi-telecentric Micro Line ▪ Gaussian intensity distribution ▪ Constant line length ca. **2 mm**

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