

13LT-1000+90CM-635-4-H10-M60-C-6

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: 58 μm
Wavelength: 635 nm
Working distance: 993 mm

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



DESCRIPTION

The laser diode beam source type 13LT-1000+90CM-635-4-H10-M60-C-6 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 84 %. The line width is constant along the laser line. 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.



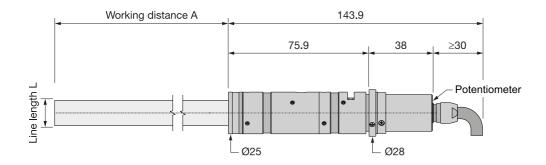
TECHNICAL DATA

13LT-1000+90CM-635-4-H10-M60-C-6

Line profile Constant Intensity Distribution Line type Laser Micro Line Wavelength 635 +10/-10 nm Laser output power 4 mW Laser safety class 3R Focussing range 993-993 mm Working distance 993 mm Line length 15 mm Line width 0.058 mm Rayleigh range 8.25 mm Edge intensity 84 % Diameter laser module 25/28 mm Module length 121.9 mm Installation length 1144.9 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 0 - 40 °C Modulation inputs Analog TTL Input resistance 22 kOhm 22 kOhm Max. modulation delay ON/OFF 1/0.5 µs 2/1 µs	Series		13LT
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Modulation delay ON/OFF 1/0.5 μs 2/1 μs	Input resistance	22 kOhm	22 kOhm
	Max. modulation frequency	100 kHz	100 kHz
Dies / Fell time	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



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



DOWNLOADS



ACCESSORIES

9D-12 Screwdriver WS 1.2

PS051003E Power Supply 5 V

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 LineGaussian intensity distribution
- Constant line length ca. 4.8 mm

LASER MODULES SERIES 5LT-2

- Semi-telecentric Micro LineGaussian intensity distribution
- Constant line length ca. 2 mm

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CONTACT

For more information please contact: Schäfter + Kirchhoff GmbH Kieler Str. 212 22525 Hamburg Germany

Tel: +49 40 85 39 97-0 Fax: +49 40 85 39 97-79

info@sukhamburg.de www.sukhamburg.com

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