13LTM-250-41+90CM-685-7-H13-M60-C-6

Semi-telecentric Macro Line Generator Semi-telecentric Macro Line Generator

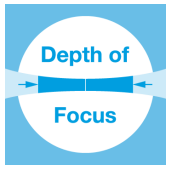


FEATURES

Semi-telecentric laser line with constant line length 15mm, approx. uniform intensity distribution and extended depth of focus.

- Line length: 15 mm
- Line width: 62 µm
- Wavelength: 685 nm
- Working distance: 238 mm
- Depth of focus: 11.9 mm

- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LTM-250-41+90CM-685-7-H13-M60-C-6 produces a semi-telecentric laser line with 15 mm line length and extended depth of focus. The intensity profile is approx. uniform in line direction. More precisely, it is Gaussian clipped by an aperture with an edge intensity of 75 %. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

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

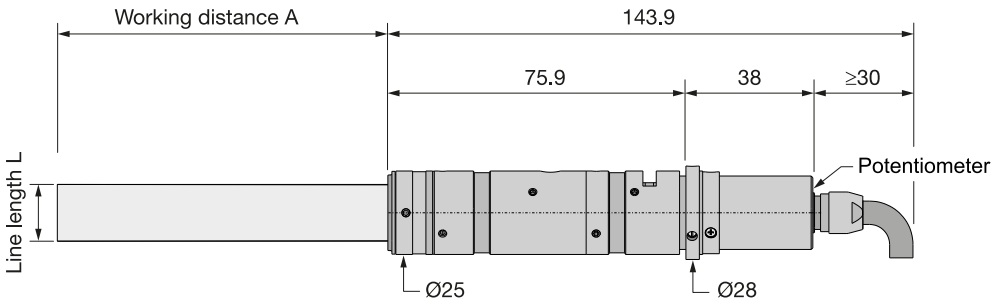
For this laser type the working distance is fixed. A fine-adjustment of the distance between laser and target is recommended for fine-focusing in order to achieve minimal line width.

TECHNICAL DATA

13LTM-250-41+90CM-685-7-H13-M60-C-6

Series		13LTM
Order Code		13LTM-250-41+90CM-685-7-H13-M60-C-6
Line profile		Constant Intensity Distribution
Line type		Laser Macro Line
Wavelength		685 +10/-10 nm
Laser output power		7 mW
Laser safety class		3B
Focussing range		238-238 mm
Working distance		238 mm
Line length		15 mm
Line width		0.062 mm
Depth of focus		11.9 mm
Edge intensity		75 %
Diameter laser module		25/28 mm
Module length		127.3 mm
Installation length		395.3 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 frequency	100 kHz	100 kHz
Modulation delay ON/OFF	1/0.5 µs	2/1 µs
Rise / Fall time	3/2 µs	3/2 µs

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



DOWNLOADS

951210000045.pdf

ACCESSORIES

9D-12	Screwdriver WS 1.2
PS051003E	Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 13LT

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

LASER MODULES SERIES LNC-13LTM

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

LASER MODULES SERIES 5LTM-1+25CM

- **Compact** semi-telecentric Macro Line
- Gaussian intensity distribution
- Constant line length ca. **4.8 mm**
- Extended depth of focus

LASER MODULES
SERIES 5LTM-2+25CM

- **Compact** semi-telecentric Macro Line
- Gaussian intensity distribution
- Constant line length ca. **2 mm**
- Extended depth of focus

LASER MODULES
SERIES 5LTM-1

- Semi-telecentric Macro Line
- Gaussian intensity distribution
- Constant line length ca. **4.8 mm**
- Extended depth of focus

LASER MODULES
SERIES 5LTM-2

- Semi-telecentric Macro Line
- Gaussian intensity distribution
- Constant line length ca. **2 mm**
- Extended depth of focus

This is a printout of the page https://sukhamburg.com/products/details/13LTM-250-41_90CM-685-7-H13-M60-C-6 from 3/28/2024

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