

13LTM-500-41+90CM-639-3-H18-M60-CS-7

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

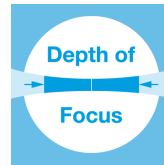


FEATURES

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

- Line length: 15 mm
- Line width: 115 μm
- Wavelength: 639 nm
- Working distance: 488 mm
- Depth of focus: 44.5 mm

-
- Macro Line Generator for extended depth of focus
 - With RS232 interface



DESCRIPTION

The laser diode beam source type 13LTM-500-41+90CM-639-3-H18-M60-CS-7 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 87 %. 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 CS](#) 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.

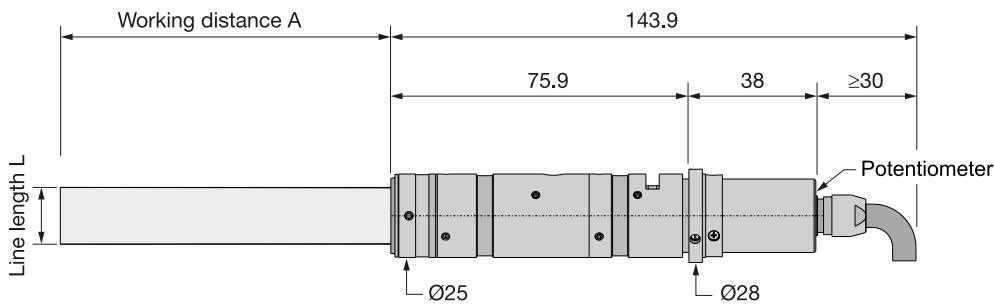
For this laser type the working distance is fixed. A fine-adjustment of the distance between laser and target is recommended for fine-focusing in order to achieve minimal line width.

TECHNICAL DATA

13LTM-500-41+90CM-639-3-H18-M60-CS-7

Series	13LTM	
Order Code	13LTM-500-41+90CM-639-3-H18-M60-CS-7	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	639 +10/-10 nm	
Laser output power	3 mW	
Laser safety class	3R	
Focussing range	488-488 mm	
Working distance	488 mm	
Line length	15 mm	
Line width	0.115 mm	
Depth of focus	44.5 mm	
Edge intensity	87 %	
Diameter laser module	25/28 mm	
Module length	127.3 mm	
Installation length	645.3 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 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	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 µs	0.5/0.2 µs
Rise / Fall time	200000/200000 µs	0.8/0.4 µs
Interface	RS232	

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



DOWNLOADS



[951210000045.pdf](#)

ACCESSORIES

9D-12

Screwdriver WS 1.2

PS051007E

Power Supply 5 V for laser modules with RS232 interface

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-500-41_90CM-639-3-H18-M60-CS-7 from 6/4/2023

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

LEGAL NOTICE

Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [\[more\]](#)