

13LNM40-S1000-7+90CR-660-38-M25-M60-P-6

Macro Line Generator with a fan angle



FEATURES

Laser line with a fan angle, approx. uniform intensity distribution and extended depth of focus.

- Line length: 300 mm
- Line width: 136 μm
- Wavelength: 660 nm
- Working distance: 963.5 mm
- Depth of focus: 60 mm

- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LNM40-S1000-7+90CR-660-38-M25-M60-P-6 has a fan angle of 16.8°, approx. uniform intensity distribution along the laser line and extended depth of focus.

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 laser has integrated electronics [type P](#) with micro-controller 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

13LNM40-S1000-7+90CR-660-38-M25-M60-P-6

Series	13LNM40	
Order Code	13LNM40-S1000-7+90CR-660-38-M25-M60-P-6	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	660 +4/-6 nm	
Laser output power	38 mW	
Laser safety class	3B	
Fan angle α	16.8 deg	
Focussing range	963.5-963.5 mm	
Working distance	963.5 mm	
Line length	300 mm	
Line width	0.136 mm	
Depth of focus	60 mm	
Edge intensity	64 %	
Diameter laser module	25/28 mm	
Module length	118.4 mm	
Installation length	1081.9 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 \pm 0.2 V	
Max. current consumption	0.25 A	
Working temperature	15 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.01 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μ s	0.5/0.2 μ s
Rise / Fall time	40000/40000 μ s	0.5/0.5 μ s

ACCESSORIES

9D-12

Screwdriver WS 1.2

PS051003E

Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 13LN

- Micro Line, **small** fan angle
- Uniform intensity distribution
- Thin lines

LASER MODULES SERIES LNC-13LNM

- Macro Line Generator, **small** fan angle
- Uniform intensity distribution
- Extended depth of focus
- Low noise

LASER MODULES SERIES 13LRM

- Macro Line Generator, fan angle
- Uniform intensity distribution
- Extended depth of focus

LASER MODULES SERIES 5LMM+25CM

- **Compact** Micro Line, **small** fan angle
- Gaussian intensity distribution
- Extended depth of focus

LASER MODULES SERIES 5LPM+25CM

- **Compact** Macro Line, **large** fan angle
- Gaussian intensity distribution
- Extended depth of focus

LASER MODULES SERIES 5LMM

- Macro Line, **small** fan angle
- Gaussian intensity distribution
- Extended depth of focus

LASER MODULES SERIES 5LPM

- Macro Line, **large** fan angle
- Gaussian intensity distribution
- Extended depth of focus

This is a printout of the page https://sukhamburg.com/products/details/13LNM40-S1000-7_90CR-660-38-M25-M60-P-6 from 4/25/2024

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. [\[more\]](#)