13LRM40-S500-1.5+55CM-660-55-M25-T12-P-6

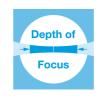
Laser Macro Line Generator with a fan angle



FEATURES

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

- Line length: 357 mm
- Line width: 317 μm
- Wavelength: 660 nm
- Working distance: 487 mm
- Depth of focus: 327 mm
- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LRM40-S500-1.5+55CM-660-55-M25-T12-P-6 has a fan angle of 40° with a constant line width and approx. uniform intensity distribution along the laser line as well an extended depth of focus.

The fine-structure is a <u>chain of equidistant dots</u> with a spacing of approx. 1/2 the line width. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

The laser has integrated electronics <u>type P</u> with micro-controller for control of the laser output power. The output power can be controlled using the <u>modulation input ports (TTL</u> <u>and analog)</u> or manually using the potentiometer.

The working distance can be adjusted by adjusting the focus setting. Please note that beam parameters like line length and line width increase proportionally to the working distance.



A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

13LRM40-S500-1.5+55CM-660-55-M25-T12-P-6

Series		13LRM
Order Code	13LRM40-S500-1.5+55CM-660-55-M25-T12-P-6	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	660 +4/-6 nm	
Laser output power	55 mW	
Laser safety class		3B
Fan angle α	40 deg	
Focussing range	355-785 mm	
Working distance		487 mm
Line length	357 mm	
Line width	0.317 mm	
Depth of focus	327 mm	
Edge intensity	80 %	
Diameter laser module	25/28 mm	
Module length	86.8 mm	
Installation length	603.8 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	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 µs	0.5/0.2 μs
Rise / Fall time	40000/40000 μs	0.5/0.5 μs



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ACCESSORIES

50HD-15	Hex key WS 1.5
9D-12	Screwdriver WS 1.2
13MK-25-36-10-F	Mounting Console with flat base plate
13MK-25-36-10-M	Mounting Console with base plate with dovetail profile
PS051003E	Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 13LR	 Micro Line Generator, fan angle Uniform intensity distribution
LASER MODULES SERIES 13LNM	 Micro Line Generator, small 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



DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/13LRM40-S500-1_5_55CM-660-55-M25-T12-P-6</u> from 5/8/2024

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