5LPM40-S88-1+55CM-685-24-H13-A8-C-6

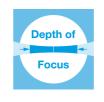
Macro Line Generator with a large fan angle



FEATURES

Laser line with a large fan angle, Gaussian intensity distribution and extended depth of focus.

- Line length: 56 mm
- Line width: 87 μm
- Wavelength: 685 nm
- Working distance: 77 mm
- Depth of focus: 23.6 mm
- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LPM40-S88-1+55CM-685-24-H13-A8-C-6 has a fan angle of 40° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 14 %. 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 C</u> for control of the laser output power. The output power can be controlled using the <u>modulation input ports (TTL 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

5LPM40-S88-1+55CM-685-24-H13-A8-C-6

Series		5LPM
Order Code	5LPM40-S88-1+55CM-685-24-H13-A8-C-6	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	685 +10/-10 nm	
Laser output power	24 mW	
Laser safety class	3В	
Fan angle α	40 deg	
Focussing range	65-120 mm	
Working distance		77 mm
Line length	56 mm	
Line width	0.087 mm	
Depth of focus	23.6 mm	
Edge intensity	14 %	
Diameter laser module	25/28 mm	
Module length	95.5 mm	
Installation length	202.5 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

ACCESSORIES

50HD-15

Hex key WS 1.5



DATA SHEET

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 5LPM	 Macro Line, large fan angle Gaussian intensity distribution Extended depth of focus
LASER MODULES SERIES LNC-5LPM	 Macro Line, large fan angle Gaussian 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 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

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DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/5LPM40-S88-1_55CM-685-24-H13-A8-C-6</u> from 5/6/2024

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