

5LPM40-S325-1+55CM-445-61-G02-A7.5-PS-7

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: 228 mm
Line width: 214 µm
Wavelength: 445 nm
Working distance: 312 mm
Depth of focus: 209 mm

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





DESCRIPTION

The laser diode beam source type 5LPM40-S325-1+55CM-445-61-G02-A7.5-PS-7 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 2 %. 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 PS</u> with micro-controller for control of the laser output power and serial interface (RS232). 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-S325-1+55CM-445-61-G02-A7.5-PS-7

Series	ries 5LPM	
Order Code	5LPM40-S325-1+55CM-445-61-G02-A7.5-PS-7	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	445 +15/-5 nm	
Laser output power	61 mW	
Laser safety class	3B	
Fan angle α	40 deg	
Focussing range	255-450 mm	
Working distance	312 mm	
Line length	228 mm	
Line width	0.214 mm	
Depth of focus	209 mm	
Edge intensity	2 %	
Diameter laser module	25/28 mm	
Module length	95.5 mm	
Installation length	437.5 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5 A	
Working temperature	15 - 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	0.6/0.2 μs
Rise / Fall time	200000/200000 μs	0.2/0.2 μs



Interface RS232

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

PS051007E Power Supply 5 V for laser modules with RS232

interface

RELATED PRODUCTS

LASER MODULES

• Macro Line, large fan angle

• Gaussian intensity distribution

Extended depth of focus

LASER MODULES
■ Macro Line, large fan angle
SERIES LNC-5LPM
■ Gaussian intensity distribution

Extended depth of focus

Low noise

LASER MODULES

• Macro Line Generator, fan angle

• Uniform intensity distribution

Extended depth of focus

LASER MODULES • Micro Line Generator, small fan angle

SERIES 13LNM • Uniform intensity distribution

Extended depth of focus

LASER MODULES • Compact Micro Line, small fan angle

Gaussian intensity distribution

Extended depth of focus

LASER MODULES • Compact Macro Line, large fan angle

SERIES 5LPM+25CM • Gaussian intensity distribution

Extended depth of focus

SERIES 5LMM+25CM



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