

5LPM40-S150-1+55CM-660-63-M25-A8-P-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: 101 mm
Line width: 143 µm
Wavelength: 660 nm
Working distance: 142 mm
Depth of focus: 66.2 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LPM40-S150-1+55CM-660-63-M25-A8-P-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 4 %. 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 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-S150-1+55CM-660-63-M25-A8-P-6

Line type Laser Macro Line Wavelength 660 +4/-6 nm Laser output power 63 mW Laser safety class 3E Fan angle α 40 deg Focussing range 120-255 mm Working distance 142 mm Line length 101 mm Line width 0.143 mm Depth of focus 66.2 mm Edge intensity 4 % Diameter laser module 25/28 mm Module length 95.5 mm Installation length 267.5 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 15 - 40 °C Modulation inputs Analog TTI Input resistance 9 kOhm 9 kOhm	series 5LPM		
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Modulation inputs Analog TTL Input resistance 9 kOhm 9 kOhm	Max. current consumption	0.25 A	
Input resistance 9 kOhm 9 kOhm	Working temperature	15 - 40 °C	
	Modulation inputs	Analog	TTL
Max. modulation frequency0.01 kHz250 kHz	Input resistance	9 kOhm	9 kOhm
<u>_</u>	Max. modulation frequency	0.01 kHz	250 kHz
Modulation delay ON/OFF 3000/3000 μs 0.5/0.2 μs	Modulation delay ON/OFF	3000/3000 µs	0.5/0.2 μs
Rise / Fall time 40000/40000 μs 0.5/0.5 μs	Rise / Fall time	40000/40000 μs	0.5/0.5 μs

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 5LPM Macro Line, large fan angle
 Coussian intensity distribution

Gaussian intensity distributionExtended depth of focus

LASER MODULES SERIES LNC-5LPM

Macro Line, large fan angleGaussian intensity distribution

Extended depth of focus

Low noise

LASER MODULES
SERIES 13LRM

Macro Line Generator, fan angleUniform 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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