

5LP60-S88+55CM-640-27-H22-A8-C-6

Micro Line Generator with a large fan angle



FEATURES

Laser line with a large fan angle and Gaussian intensity distribution.

Line length: 92 mm
Line width: 34 µm
Wavelength: 640 nm
Working distance: 82 mm

 Micro Line Generator for small laser line widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 5LP60-S88+55CM-640-27-H22-A8-C-6 has a fan angle of 62°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 13 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics $\underline{type\ C}$ for control of the laser output power. The output power can be controlled using the $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$ 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

5LP60-S88+55CM-640-27-H22-A8-C-6

Line profile Gaussian Intensity Distribution Line type Laser Micro Line Wavelength 640 +5/-5 nm Laser output power 27 mW Laser safety class 3B Fan angle α 62 deg Focussing range 70-125 mm Working distance 82 mm Line length 92 mm Line width 0.034 mm Rayleigh range 2.79 mm Edge intensity 13 % Diameter laser module 25/28 mm Module length 86.1 mm Installation 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	Series		5LP
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•	Modulation inputs	Analog	TTL
Max. modulation frequency 100 kHz 100 kHz	Input resistance	22 kOhm	22 kOhm
	Max. modulation frequency	100 kHz	100 kHz
Modulation delay ON/OFF 1/0.5 μ s 2/1 μ s	Modulation delay ON/OFF	1/0.5 µs	2/1 μs
Rise / Fall time 3/2 μs	Rise / Fall time	3/2 µs	3/2 μs

ACCESSORIES

50HD-15

Hex key WS 1.5



Screwdriver WS 1.2 9D-12

13MK-25-36-10-F Mounting Console with flat base plate

Mounting Console with base plate with dovetail 13MK-25-36-10-M

profile

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES Macro Line, large fan angle **SERIES 5LPM** Gaussian intensity distribution

Extended depth of focus

LASER MODULES • Micro Line, large fan angle **SERIES LNC-5LP**

Gaussian intensity distribution

Low noise

LASER MODULES ■ Micro Line Generator, fan angle **SERIES 13LR**

Uniform intensity distribution

Micro Line, small fan angle LASER MODULES **SERIES 13LN**

Uniform intensity distribution

Thin lines

LASER MODULES Compact Micro Line, small fan angle

SERIES 5LM+25CM Gaussian intensity distribution

LASER MODULES Compact Micro Line, large fan angle

SERIES 5LP+25CM Gaussian intensity distribution

LASER MODULES ■ Micro Line, small fan angle

SERIES 5LM Gaussian intensity distribution



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