

5LPM40-S000-1+25CM-640-18-H22-A8-S-6

Compact Macro Line Generator with a large fan angle



FEATURES

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

Line length: 720 mm
Line width: 926 µm
Wavelength: 640 nm
Working distance: 1000 mm
Depth of focus: 1500 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LPM40-S000-1+25CM-640-18-H22-A8-S-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 $\underline{type\ S}$ 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

5LPM40-S000-1+25CM-640-18-H22-A8-S-6

Laser safety class Fan angle α 4 Focussing range 450-ir Working distance 100 Line length 72 Line width 0.92 Depth of focus 150 Edge intensity 1 Diameter laser module 1	Line 5 nm 6 mW 3B 0 deg
Line typeLaser MacroWavelength640 +5/Laser output power15Laser safety class4Focussing range450-inWorking distance100Line length72Line width0.92Depth of focus150Edge intensity1Diameter laser module1Module length83	Line 5 nm 8 mW 3B 0 deg f mm
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Depth of focus 150 Edge intensity Diameter laser module 1 Module length 83.	
Edge intensity Diameter laser module 1 Module length 83.	mm
Diameter laser module 1 Module length 83.) mm
Module length 83.	14 %
	2 mm
Installation length 1113.	mm
	. mm
Cable length	L.5 m
Connector type Lumberg SV50 IEC 61076-2	-106
Supply voltage 5 ± 0	25 V
Max. current consumption	25 A
Working temperature 0 -	10 °C
Modulation inputs Analog	TTL
Input resistance 22 kOhm 22 k	Ohm
Max. modulation frequency50 kHz100	
Modulation delay ON/OFF4/0.5 μs0.05/0.) kHz
Rise / Fall time $5/4 \mu s$ 0.1/0.	

ACCESSORIES

60EX-4 Eccentric key with a stroke of \pm 0.5 mm.

60EX-4-L Alternative eccentric key with long handle with a

stroke of ± 0.5 mm.

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



LASER MODULES
SERIES 5LMM

- Macro Line, small fan angle
- Gaussian intensity distribution
- Extended depth of focus

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