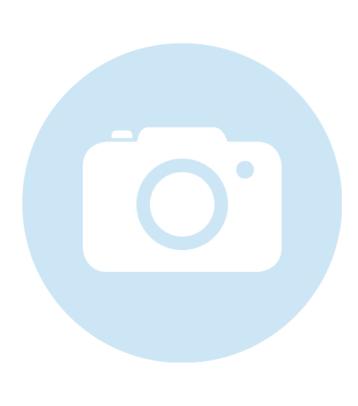
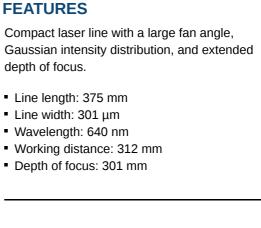
5LPM60-S325-1+25CM-640-18-H22-A8-S-6

Compact Macro Line Generator with a large fan angle





 Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LPM60-S325-1+25CM-640-18-H22-A8-S-6 has a fan angle of 62° 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 S</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

5LPM60-S325-1+25CM-640-18-H22-A8-S-6

Order Code 5LPM60-S325-1+25CM-640-18-H22-A8-S-6 Line profile Gaussian Intensity Distribution Line type Laser Macro Line Wavelength 640+5/-5 nm Laser output power 18 mW Laser safety class 38 Fan angle α 62 deg Focussing range 255-450 mm Working distance 312 mm Line length 375 mm Line width 0.301 mm Depth of focus 301 mm Edge intensity 14 % Diameter laser module 12 mm Module length 79.1 mm Installation length 1.5 m Connector type Lumberg SV50 IEC 61076-2-106 Supply voltage 5 ± 0.25 V Max. current consumption 0.25A Working temperature 0 - 40 °C Modulation inputs Analog TL Input resistance 22 kOhm Max. modulation frequency 50 kHz 1000 kHz Modulation delay ON/OFFF 4/0.5 µs 0.05/0.05 µs	Series		5LPM
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Supply voltage5±0.25 VMax. current consumption0.25 AWorking temperature0-40 °CModulation inputsAnalogInput resistance22 kOhm22 kOhm22 kOhmMax. modulation frequency50 kHz1000 kHzModulation delay ON/OFF4/0.5 μs0.05/0.05 μs	Cable length		1.5 m
Max. current consumption0.25 AMorking temperature0 - 40 °CModulation inputsAnalogInput resistance22 kOhm22 kOhm22 kOhmMax. modulation frequency50 kHz1000 kHzModulation delay ON/OFF4/0.5 µs	Connector type	Lumberg SV50 IEC 61076-2-106	
Working temperature0 - 40 °CModulation inputsAnalogTTLInput resistance22 kOhm22 kOhmMax. modulation frequency50 kHz1000 kHzModulation delay ON/OFF4/0.5 μs0.05/0.05 μs	Supply voltage	5 ± 0.25 V	
Modulation inputsAnalogTTLInput resistance22 kOhm22 kOhmMax. modulation frequency50 kHz1000 kHzModulation delay ON/OFF4/0.5 μs0.05/0.05 μs	Max. current consumption	0.25 A	
Input resistance22 kOhmMax. modulation frequency50 kHzModulation delay ON/OFF4/0.5 μs0.05/0.05 μs	Working temperature		0 - 40 °C
Max. modulation frequency50 kHz1000 kHzModulation delay ON/OFF4/0.5 μs0.05/0.05 μs	Modulation inputs	Analog	TTL
Modulation delay ON/OFF 4/0.5 μs 0.05/0.05 μs	Input resistance	22 kOhm	22 kOhm
	Max. modulation frequency	50 kHz	1000 kHz
	Modulation delay ON/OFF	4/0. 5 μs	0.05/0.05 μs
Rise / Fail time 5/4 μs 0.1/0.02 μs	Rise / Fall time	5/4 µs	0.1/0.02 μs



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 \pm 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

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LASER MODULES SERIES 5LMM

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

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