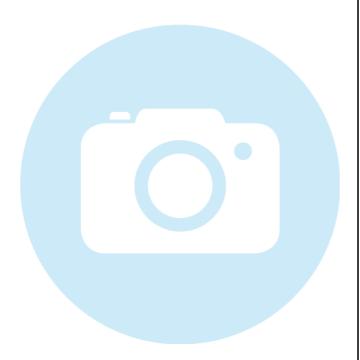


5LPM60-S325-1+55CM-405-10-Y07-A7.5-C-6

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: 375 mm
Line width: 192 μm
Wavelength: 405 nm
Working distance: 312 mm
Depth of focus: 191 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LPM60-S325-1+55CM-405-10-Y07-A7.5-C-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 9 %. 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 C</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+55CM-405-10-Y07-A7.5-C-6

Line type Laser Macro Line Wavelength 405 +5/-5 nm Laser output power 10 mW Laser safety class 3B Fan angle α 62 deg Focussing range 255-450 mm Working distance 312 mm Line length 375 mm Line width 0.192 mm Depth of focus 191 mm Edge intensity 9 % Diameter laser module 25/28 mm Module length 91.5 mm Installation length 433.5 mm Cable length 1.5 m Connector type Lumberg SV50 IEC 61076-2-106 Supply voltage 5 ± 0.2 V Max. current consumption 0.5 A Working temperature 0 - 40 °C Modulation inputs Analog TTL Input resistance 22 kOhm 22 kOhm Max. modulation frequency 100 kHz 100 kHz	Series	5LPM		
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Modulation inputs Analog TTL Input resistance 22 kOhm Max. modulation frequency 100 kHz 100 kHz	Max. current consumption	0.5 A		
Input resistance22 kOhm22 kOhmMax. modulation frequency100 kHz100 kHz	Working temperature	0 - 40 °C		
Max. modulation frequency 100 kHz 100 kHz	Modulation inputs	Analog	TTL	
	Input resistance	22 kOhm	22 kOhm	
Modulation delay ON/OFF 1/0.5 μ s 2/1 μ s	Max. modulation frequency	100 kHz	100 kHz	
	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



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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