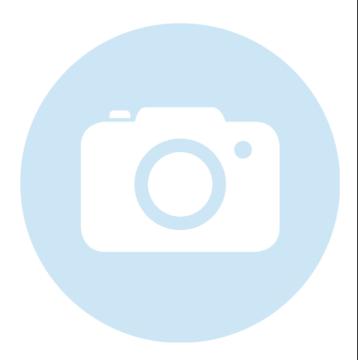


5LPM80-S325-1+55CM-445-61-G02-A7.5-P-6

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: 565 mm
Line width: 214 µm
Wavelength: 445 nm
Working distance: 312 mm
Depth of focus: 209 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LPM80-S325-1+55CM-445-61-G02-A7.5-P-6 has a fan angle of 84° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 2 %. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

The laser has integrated electronics $\underline{type\ P}$ with micro-controller 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

5LPM80-S325-1+55CM-445-61-G02-A7.5-P-6

	Gaussian Inter	nsity Distribution aser Macro Line 445 +15/-5 nm 61 mW 3B 84 deg 255-450 mm	
Line type Wavelength Laser output power Laser safety class Fan angle α Focussing range Working distance Line length Line width		aser Macro Line 445 +15/-5 nm 61 mW 3B 84 deg 255-450 mm	
Wavelength Laser output power Laser safety class Fan angle α Focussing range Working distance Line length Line width	L	445 +15/-5 nm 61 mW 3B 84 deg 255-450 mm	
Laser output power Laser safety class Fan angle α Focussing range Working distance Line length Line width		61 mW 3B 84 deg 255-450 mm	
Laser safety class Fan angle α Focussing range Working distance Line length Line width		3B 84 deg 255-450 mm	
Fan angle α Focussing range Working distance Line length Line width		84 deg 255-450 mm	
Focussing range Working distance Line length Line width		255-450 mm	
Working distance Line length Line width			
Line length Line width		212	
Line width		312 mm	
		565 mm	
Depth of focus	0.214 mm		
	209 mm		
Edge intensity	2 %		
Diameter laser module	25/28 mm		
Module length	91.5 mm		
Installation length	433.5 mm		
Cable length		1.5 m	
Connector type Lui	Lumberg SV50 IEC 61076-2-106		
Supply voltage	5 ± 0.2 V		
Max. current consumption	0.5 A		
Working temperature	15 - 40 °C		
Modulation inputs	Analog	TTL	
Input resistance	9 kOhm	9 kOhm	
Max. modulation frequency	0.01 kHz	250 kHz	
Modulation delay ON/OFF 3	3000/3000 μs	0.5/0.2 μs	
Rise / Fall time 400		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 angleGaussian intensity distribution

Extended 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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