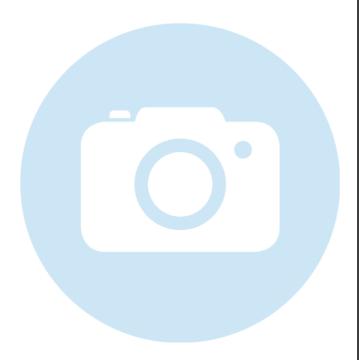


5LMM15-S325-1+55CM-488-33-O09-A7.5-P-6

Macro Line Generator with a fan angle



FEATURES

Laser line with a fan angle, Gaussian intensity distribution and extended depth of focus.

Line length: 86.9 mm
Line width: 235 μm
Wavelength: 488 nm
Working distance: 308 mm
Depth of focus: 230 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LMM15-S325-1+55CM-488-33-O09-A7.5-P-6 has a fan angle of 15° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 19 %. 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 P</u> with micro-controller 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

5LMM15-S325-1+55CM-488-33-O09-A7.5-P-6

Order Code 5LMM15-S3 Line profile Line type Wavelength Laser output power Laser safety class Fan angle α Focussing range Working distance Line length Line width		33-009-A7.5-P-6 nsity Distribution aser Macro Line 488 +2/-2 nm 33 mW 3B 15 deg 250-450 mm	
Line type Wavelength Laser output power Laser safety class Fan angle α Focussing range Working distance Line length		aser Macro Line 488 +2/-2 nm 33 mW 3B 15 deg	
Wavelength Laser output power Laser safety class Fan angle α Focussing range Working distance Line length	L	488 +2/-2 nm 33 mW 3B 15 deg	
Laser output power Laser safety class Fan angle α Focussing range Working distance Line length		33 mW 3B 15 deg	
Laser safety class Fan angle α Focussing range Working distance Line length		3B 15 deg	
Fan angle α Focussing range Working distance Line length		15 deg	
Focussing range Working distance Line length			
Working distance Line length		250-450 mm	
Line length		250-450 mm	
	308 mm		
Line width	86.9 mm		
	0.235 mm		
Depth of focus	230 mm		
Edge intensity	19 %		
Diameter laser module	25/28 mm		
Module length	78.5 mm		
Installation length	416.5 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	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	3000/3000 μs	0.5/0.2 μs	
Rise / Fall time	40000/40000 μs	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 5LM

• Micro Line, small fan angle

Gaussian intensity distribution

LASER MODULES

SERIES LNC-5LMM

• Macro Line, small 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 5LPM+25CM** Compact Macro Line, large fan angle

Gaussian 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**

Macro Line, large fan angle

Gaussian intensity distribution

Extended depth of focus



This is a printout of the page https://sukhamburg.com/products/details/5LMM15-S325-1 55CM-488-33-009-A7 5-P-6 from 5/7/2024

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