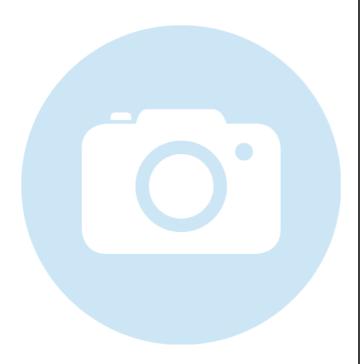


# 5LMM8-S325-1+55CM-405-60-X15-A7.5-PS-7

Macro Line Generator with a fan angle



#### **FEATURES**

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

Line length: 47.5 mm
Line width: 191 µm
Wavelength: 405 nm
Working distance: 308 mm
Depth of focus: 191 mm

- Macro Line Generator for extended depth of focus
- With RS232 interface





# **DESCRIPTION**

The laser diode beam source type 5LMM8-S325-1+55CM-405-60-X15-A7.5-PS-7 has a fan angle of  $8^{\circ}$  and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 10 %. 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 PS</u> with micro-controller for control of the laser output power and serial interface (RS232). 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**

5LMM8-S325-1+55CM-405-60-X15-A7.5-PS-7

Series 5LMM		
Order Code	5LMM8-S325-1+55CM-405-60-X15-A7.5-PS-7	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	405 +5/-5 nm	
Laser output power	60 mW	
Laser safety class	3B	
Fan angle α	8 deg	
Focussing range	250-450 mm	
Working distance	308 mm	
Line length	47.5 mm	
Line width	0.191 mm	
Depth of focus	191 mm	
Edge intensity	10 %	
Diameter laser module	25/28 mm	
Module length	78.5 mm	
Installation length	416.5 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 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	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.6/0.2 μs
Rise / Fall time	200000/200000 μs	0.2/0.2 μs



Interface RS232

### **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

PS051007E Power Supply 5 V for laser modules with RS232

interface

#### RELATED PRODUCTS

**SERIES 13LRM** 

**SERIES 5LMM+25CM** 

**LASER MODULES** • Micro Line, small fan angle **SERIES 5LM** 

Gaussian intensity distribution

**LASER MODULES** Macro Line, small fan angle **SERIES LNC-5LMM** 

Gaussian intensity distribution

Extended depth of focus

Low Noise

LASER MODULES Macro Line Generator, fan angle

Uniform intensity distribution

Extended depth of focus

LASER MODULES Micro Line Generator, small fan angle

**SERIES 13LNM** Uniform intensity distribution

Extended depth of focus

LASER MODULES ■ Compact Macro Line, large fan angle

**SERIES 5LPM+25CM** Gaussian intensity distribution

Extended depth of focus

Compact Micro Line, small fan angle LASER MODULES

Gaussian intensity distribution

Extended depth of focus



LASER MODULES
SERIES 5LPM

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

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