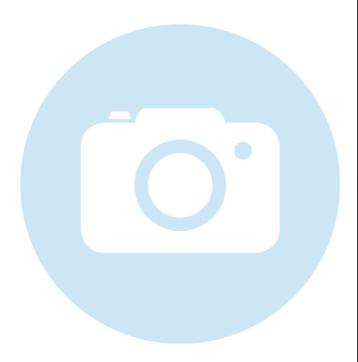


# 5LMM8-S325-1+25CM-785-59-Q06-A8-S-6

Compact Macro Line Generator with a fan angle



#### **FEATURES**

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

Line length: 47.5 mm
Line width: 369 μm
Wavelength: 785 nm
Working distance: 308 mm
Depth of focus: 370 mm

Macro Line Generator for extended depth of focus



### **DESCRIPTION**

The laser diode beam source type 5LMM8-S325-1+25CM-785-59-Q06-A8-S-6 has a fan angle of 8° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 3 %. 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**

5LMM8-S325-1+25CM-785-59-Q06-A8-S-6

Series	5LMM	
Order Code	5LMM8-S325-1+25CM-785-59-Q06-A8-S-6	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	785 +10/-10 nm	
Laser output power	59 mW	
Laser safety class	3В	
Fan angle α	8 deg	
Focussing range	250-450 mm	
Working distance	308 mm	
Line length	47.5 mm	
Line width	0.369 mm	
Depth of focus	370 mm	
Edge intensity	3%	
Diameter laser module	12 mm	
Module length	66.1 mm	
Installation length	404.1 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.25 V	
Max. current consumption	0.25 A	
Working temperature	0 - 40 °C	
Modulation inputs	Analog	TTL
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 / 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 ± 0.5 mm.

**9D-12** Screwdriver WS 1.2

PS051003E Power Supply 5 V

### RELATED PRODUCTS

LASER MODULES • Compact Micro Line, small fan angle

SERIES 5LMM+25CM ■ Gaussian intensity distribution

Extended depth of focus

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

LASER MODULES • Macro Line, small fan angle

Gaussian intensity distribution

Extended depth of focus

LASER MODULES • Macro Line, large fan angle

SERIES 5LPM • Gaussian intensity distribution

Extended depth of focus

**SERIES 5LMM** 



This is a printout of the page <a href="https://sukhamburg.com/products/details/5LMM8-S325-1">https://sukhamburg.com/products/details/5LMM8-S325-1</a> 25CM-785-59-Q06-A8-S-6 from 5/4/2024

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