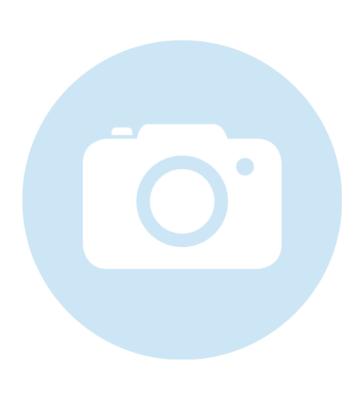
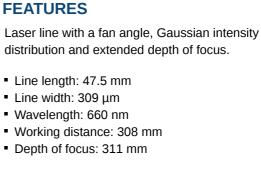
#### 5LMM8-S325-1+55CM-660-63-M25-A8-PS-7

Macro Line Generator with a fan angle





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



#### DESCRIPTION

The laser diode beam source type 5LMM8-S325-1+55CM-660-63-M25-A8-PS-7 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 4 %. 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-660-63-M25-A8-PS-7

Series		5LMM
Order Code	5LMM8-S325-1+55CM-660-6	3-M25-A8-PS-7
Line profile	Gaussian Inter	nsity Distribution
Line type	Laser Macro Line	
Wavelength		660 +4/-6 nm
Laser output power		63 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		0.309 mm
Depth of focus	311 mm	
Edge intensity		4 %
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	0.25 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	0.5/0.2 μs
Rise / Fall time	200000/200000 µs	0.8/0.4 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**

LASER MODULES SERIES 5LM	<ul> <li>Micro Line, small fan angle</li> <li>Gaussian intensity distribution</li> </ul>
LASER MODULES SERIES LNC-5LMM	<ul> <li>Macro Line, small fan angle</li> <li>Gaussian intensity distribution</li> <li>Extended depth of focus</li> <li>Low Noise</li> </ul>
LASER MODULES SERIES 13LRM	<ul> <li>Macro Line Generator, fan angle</li> <li>Uniform intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 13LNM	<ul> <li>Micro Line Generator, small fan angle</li> <li>Uniform intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 5LPM+25CM	<ul> <li>Compact Macro Line, large fan angle</li> <li>Gaussian intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 5LMM+25CM	<ul> <li>Compact Micro Line, small fan angle</li> <li>Gaussian intensity distribution</li> <li>Extended depth of focus</li> </ul>





#### LASER MODULES SERIES 5LPM

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

This is a printout of the page <u>https://sukhamburg.com/products/details/5LMM8-S325-1\_55CM-660-63-M25-A8-PS-7</u> from 5/11/2024

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