#### 5LTM-150-11+55CM-660-63-M25-A8-PS-7

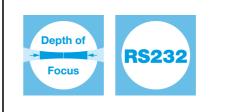
Semi-telecentric Macro Line Generator



#### FEATURES

Semi-telecentric laser line with constant line length of 4.8 mm and extended depth of focus.

- Line length: 4.8 mm
- Line width: 143 μm
- Wavelength: 660 nm
- Working distance: 139 mm
- Depth of focus: 66.2 mm
- Macro Line Generator for extended depth of focus
- With RS232 interface



## DESCRIPTION

The laser diode beam source type 5LTM-150-11+55CM-660-63-M25-A8-PS-7 produces a semi-telecentric laser line with 4.8 mm line length and extended depth of focus. The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 5 %. 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.

For this laser type the working distance is fixed. A fine-adjustment of the distance between laser and target is recommended for fine-focusing in order to achieve minimal line width.



## **TECHNICAL DATA**

5LTM-150-11+55CM-660-63-M25-A8-PS-7

Series		5LTM
Order Code	5LTM-150-11+55CM-660-63-M25-A8-PS-7	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	660 +4/-6 nm	
Laser output power	63 mW	
Laser safety class	3В	
Focussing range	139-139 mm	
Working distance	139 mm	
Line length		4.8 mm
Line width	0.143 mm	
Depth of focus	66.2 mm	
Edge intensity	5 %	
Diameter laser module	25/28 mm	
Module length	78.5 mm	
Installation length	247.5 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

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 5LT-2	<ul> <li>Semi-telecentric Micro Line</li> <li>Gaussian intensity distribution</li> <li>Constant line length ca. 2 mm</li> </ul>
LASER MODULES SERIES LNC-5LTM-2	<ul> <li>Semi-telecentric Macro Line</li> <li>Gaussian intensity distribution</li> <li>Constant line length ca. 2 mm</li> <li>Extended depth of focus</li> <li>Low noise</li> </ul>
LASER MODULES SERIES 13LTM	<ul> <li>Semi-telecentric Macro Line</li> <li>Uniform intensity distribution</li> <li>Constant line length 15 mm</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 5LTM-1+25CM	<ul> <li>Compact semi-telecentric Macro Line</li> <li>Gaussian intensity distribution</li> <li>Constant line length ca. 4.8 mm</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 5LTM-1	<ul> <li>Semi-telecentric Macro Line</li> <li>Gaussian intensity distribution</li> <li>Constant line length ca. 4.8 mm</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 5LTM-2+25CM	<ul> <li>Compact semi-telecentric Macro Line</li> <li>Gaussian intensity distribution</li> <li>Constant line length ca. 2 mm</li> <li>Extended depth of focus</li> </ul>



## **DATA SHEET**

This is a printout of the page <u>https://sukhamburg.com/products/details/5LTM-150-11\_55CM-660-63-M25-A8-PS-7</u> from 5/4/2024

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