5LTM-100-11+55CM-660-63-M25-A8-PS-7

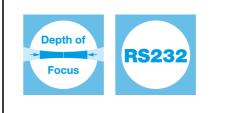
Semi-telecentric Macro Line Generator



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: 95 µm
- Wavelength: 660 nm
- Working distance: 91 mm
- Depth of focus: 29.4 mm
- Macro Line Generator for extended depth of focus
- With RS232 interface



DESCRIPTION

The laser diode beam source type 5LTM-100-11+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-100-11+55CM-660-63-M25-A8-PS-7

Series		5LTM
Order Code	5LTM-100-11+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	fety class 3B	
Focussing range	91-91 mm	
Working distance	91 mm	
Line length	e length 4.8 mm	
Line width	0.095 mm	
Depth of focus	29.4 mm	
Edge intensity	5 %	
Diameter laser module	25/28 mm	
Module length	78.5 mm	
Installation length	199.5 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	 Semi-telecentric Micro Line Gaussian intensity distribution Constant line length ca. 2 mm
LASER MODULES SERIES LNC-5LTM-2	 Semi-telecentric Macro Line Gaussian intensity distribution Constant line length ca. 2 mm Extended depth of focus Low noise
LASER MODULES SERIES 13LTM	 Semi-telecentric Macro Line Uniform intensity distribution Constant line length 15 mm Extended depth of focus
LASER MODULES SERIES 5LTM-1+25CM	 Compact semi-telecentric Macro Line Gaussian intensity distribution Constant line length ca. 4.8 mm Extended depth of focus
LASER MODULES SERIES 5LTM-1	 Semi-telecentric Macro Line Gaussian intensity distribution Constant line length ca. 4.8 mm Extended depth of focus
LASER MODULES SERIES 5LTM-2+25CM	 Compact semi-telecentric Macro Line Gaussian intensity distribution Constant line length ca. 2 mm Extended depth of focus

Extended depth of focus

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DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/5LTM-100-11_55CM-660-63-M25-A8-PS-7</u> from 4/24/2024

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