### 5LT-330-1+55CM-635-10-H10-A8-C-6

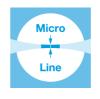
Semi-telecentric Micro Line Generator



#### FEATURES

Semi-telecentric laser line with constant line length of 4.8 mm.

- Line length: 4.8 mm
- Line width: 141 μm
- Wavelength: 635 nm
- Working distance: 324 mm
- Micro Line Generator for small laser line widths and high power density in the focal plane



## DESCRIPTION

The laser diode beam source type 5LT-330-1+55CM-635-10-H10-A8-C-6 produces a semi-telecentric laser line with 4.8 mm line length. The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 33 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics <u>type C</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.

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**

5LT-330-1+55CM-635-10-H10-A8-C-6

Order Code 5L Line profile	T-330-1+55CM-635 Gaussian Inter	-10-H10-A8-C-6
Line profile	Gaussian Inter	
	Gaussian Intensity Distribution	
Line type	l	aser Micro Line
Wavelength		635 +10/-10 nm
Laser output power		10 mW
Laser safety class		3B
Focussing range		324-324 mm
Working distance		324 mm
Line length		4.8 mm
Line width		0.141 mm
Rayleigh range		49.1 mm
Edge intensity		33 %
Diameter laser module	25/28 mm	
Module length		73.1 mm
Installation length	427.1 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.2 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	100 kHz	100 kHz
Modulation delay ON/OFF	1/0.5 µs	2/1 μs
Rise / Fall time	3/2 µs	3/2 µs

## DOWNLOADS



<u>930412000106.pdf</u>

## ACCESSORIES

9D-12	Screwdriver WS 1.2
13MK-25-36-10-F	Mounting Console with flat base plate
13МК-25-36-10-М	Mounting Console with base plate with dovetail profile
PS051003E	Power Supply 5 V

## **RELATED PRODUCTS**

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

Constant line length ca. 2 mm

## **DATA SHEET**

This is a printout of the page <u>https://sukhamburg.com/products/details/5LT-330-1\_55CM-635-10-H10-A8-C-6</u> from 4/19/2024

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