#### 5LT-50-1+55CM-635-10-H10-A8-CS-7

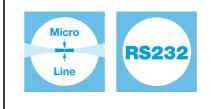
Semi-telecentric Micro Line Generator



#### FEATURES

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

- Line length: 4.8 mm
- Line width: 21 μm
- Wavelength: 635 nm
- Working distance: 45 mm
- Micro Line Generator for small laser line widths and high power density in the focal plane
- With RS232 interface



### DESCRIPTION

The laser diode beam source type 5LT-50-1+55CM-635-10-H10-A8-CS-7 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 CS</u> for control of the laser output power and serial interface (RS232). The output power can be controlled using the <u>modulation input</u> <u>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-50-1+55CM-635-10-H10-A8-CS-7

Series		5LT
Order Code	5LT-50-1+55CM-635-10-H10-A8-CS-7	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	635 +10/-10 nm	
Laser output power	10 mW	
Laser safety class	3В	
Focussing range	45-45 mm	
Working distance	45 mm	
Line length	4.8 mm	
Line width	0.021 mm	
Rayleigh range	1.13 mm	
Edge intensity	33 %	
Diameter laser module	25/28 mm	
Module length	73.1 mm	
Installation length	148.1 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	0 - 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 RS23		RS232

#### **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
PS051007E	Power Supply 5 V for laser modules with RS232 interface

# **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 15 mm</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

- Semi-telecentric Micro Line
- Gaussian intensity distribution
  - Constant line length ca. 2 mm

This is a printout of the page <u>https://sukhamburg.com/products/details/5LT-50-1\_55CM-635-10-H10-A8-CS-7</u> from 4/30/2024

# CONTACT

For more information please contact: Schäfter + Kirchhoff GmbH Kieler Str. 212 22525 Hamburg Germany Tel: +49 40 85 39 97-0 Fax: +49 40 85 39 97-79

info@sukhamburg.de www.sukhamburg.com

## **LEGAL NOTICE**

#### Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [more]

