#### 5LTM-150-11+55CM-635-7-H10-A8-C-6

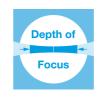
Semi-telecentric Macro Line Generator



#### 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: 139 μm
- Wavelength: 635 nm
- Working distance: 139 mm
- Depth of focus: 63.7 mm
- Macro Line Generator for extended depth of focus



### DESCRIPTION

The laser diode beam source type 5LTM-150-11+55CM-635-7-H10-A8-C-6 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 33 %. 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 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**

#### 5LTM-150-11+55CM-635-7-H10-A8-C-6

Order Code5LTM-Line profileLine typeWavelengthLaser output powerLaser safety class		5-7-H10-A8-C-6 nsity Distribution aser Macro Line 635 +10/-10 nm	
Line type Wavelength Laser output power		aser Macro Line	
Wavelength Laser output power	L		
Laser output power		635 +10/-10 nm	
		635 +10/-10 nm	
Laser safety class	7 mW		
		3В	
Focussing range		139-139 mm	
Working distance		139 mm	
Line length		4.8 mm	
Line width		0.139 mm	
Depth of focus	63.7 mm		
lge intensity 33 %			
Diameter laser module	25/28 mm		
Module length		78.5 mm	
Installation length	247.5 mm		
Cable length	<b>n</b> 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	

### 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	
PS051003E	Power Supply 5 V	
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-635-7-H10-A8-C-6</u> from 5/6/2024

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