

### 5LT-100-2+55CM-660-105-M25-A8-PS-7

Semi-telecentric Micro Line Generator



#### **FEATURES**

Semi-telecentric laser line with constant line length of 2.4 mm.

Line length: 2.4 mm
Line width: 21 μm
Wavelength: 660 nm
Working distance: 96 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-100-2+55CM-660-105-M25-A8-PS-7 produces a semi-telecentric laser line with 2.4 mm line length. In this case the line length is given on the 13.5%-level. The intensity profile is Gaussian in line direction and the line is truncated at 4.8 mm. 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 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**

5LT-100-2+55CM-660-105-M25-A8-PS-7

Order Code         5LT-100-2+55CM-660-105-M25-A8-PS-7           Line profile         Gaussian Intensity Distribution           Line type         Laser Micro Line           Wavelength         660 +4/-6 nm           Laser output power         105 mW           Laser safety class         3B           Focussing range         96-96 mm           Working distance         96 mm           Line length         2.4 mm           Line width         0.021 mm           Rayleigh range         1.06 mm           Edge intensity         5 %           Diameter laser module         25/28 mm           Module length         73.1 mm           Installation length         1.9 mm           Cable length         1.5 m           Connector type         Lumberg SV70 IEC 61076-2-106           Supply voltage         5 ± 0.2 V           Max. current consumption         0.25A           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	Series		5LT	
Line type         Laser Micro Line           Wavelength         660 +4/-6 nm           Laser output power         105 mW           Laser safety class         3B           Focussing range         96-96 mm           Working distance         96 mm           Line length         2.4 mm           Line width         0.021 mm           Rayleigh range         1.06 mm           Edge intensity         5 %           Diameter laser module         25/28 mm           Module length         73.1 mm           Installation length         199.1 mm           Cable length         1.5 m           Connector type         Lumberg SV70 IEC 61076-2-106           Supply voltage         5 ± 0.2 V           Max. current consumption         0.25A           Working temperature         15 - 40 °C           Modulation inputs         Analog         TTL           Input resistance         9 kOhm         9 kOhm           Max. modulation frequency         0.01 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	Order Code	5LT-100-2+55CM-660-105-M25-A8-PS-7		
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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	Installation length	199.1 mm		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Cable length	1.5 m		
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Rise / Fall time         200000/200000 μs         0.8/0.4 μs	Max. modulation frequency	0.001 kHz	250 kHz	
	Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs	
Interface RS232	Rise / Fall time	200000/200000 μs	0.8/0.4 μs	
	Interface	RS232		



#### **DOWNLOADS**



### **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

#### **RELATED PRODUCTS**

**SERIES 13LT** 

**SERIES 5LT-1** 

SERIES 5LT-1+25CM

 Semi-telecentric Macro Line LASER MODULES

**SERIES 5LTM-2** Gaussian intensity distribution

Constant line length ca. 2 mm

Extended depth of focus

LASER MODULES Semi-telecentric Macro Line **SERIES LNC-5LTM-2** 

Gaussian intensity distribution

Constant line length ca. 2 mm

Extended depth of focus

Low noise

LASER MODULES Semi-telecentric Micro Line

Uniform intensity distribution

Constant line length 15 mm

LASER MODULES Compact semi-telecentric Micro Line

Gaussian intensity distribution

Constant line length ca. 4.8 mm

LASER MODULES Semi-telecentric Micro Line

Gaussian intensity distribution

■ Constant line length ca. 4.8 mm



LASER MODULES SERIES 5LT-2+25CM

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

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