

## 5LTM-250-11+55CM-445-61-G02-A7.5-PS-7

Semi-telecentric Macro Line Generator

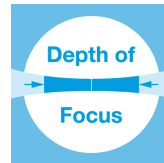


### FEATURES

Semi-telecentric laser line with constant line length of 4.8 mm and extended depth of focus.

- Line length: 4.8 mm
- Line width: 165  $\mu\text{m}$
- Wavelength: 445 nm
- Working distance: 245 mm
- Depth of focus: 124 mm

- Macro Line Generator for extended depth of focus
- With RS232 interface



## DESCRIPTION

The laser diode beam source type 5LTM-250-11+55CM-445-61-G02-A7.5-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 2 %. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

The laser has integrated electronics [type PS](#) with micro-controller for control of the laser output power and serial interface (RS232). The output power can be controlled using the [modulation input ports \(TTL and analog\)](#), 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-250-11+55CM-445-61-G02-A7.5-PS-7

<b>Series</b>	5LTM	
<b>Order Code</b>	5LTM-250-11+55CM-445-61-G02-A7.5-PS-7	
<b>Line profile</b>	Gaussian Intensity Distribution	
<b>Line type</b>	Laser Macro Line	
<b>Wavelength</b>	445 +15/-5 nm	
<b>Laser output power</b>	61 mW	
<b>Laser safety class</b>	3B	
<b>Focussing range</b>	245-245 mm	
<b>Working distance</b>	245 mm	
<b>Line length</b>	4.8 mm	
<b>Line width</b>	0.165 mm	
<b>Depth of focus</b>	124 mm	
<b>Edge intensity</b>	2 %	
<b>Diameter laser module</b>	25/28 mm	
<b>Module length</b>	78.5 mm	
<b>Installation length</b>	353.5 mm	
<b>Cable length</b>	1.5 m	
<b>Connector type</b>	Lumberg SV70 IEC 61076-2-106	
<b>Supply voltage</b>	5 ± 0.2 V	
<b>Max. current consumption</b>	0.5 A	
<b>Working temperature</b>	15 - 40 °C	
<b>Modulation inputs</b>	Analog	TTL
<b>Input resistance</b>	9 kOhm	9 kOhm
<b>Max. modulation frequency</b>	0.001 kHz	250 kHz
<b>Modulation delay ON/OFF</b>	3000/3000 µs	0.6/0.2 µs
<b>Rise / Fall time</b>	200000/200000 µs	0.2/0.2 µs
<b>Interface</b>	RS232	

## ACCESSORIES

9D-12

Screwdriver WS 1.2

<b>13MK-25-36-10-F</b>	Mounting Console with flat base plate
<b>13MK-25-36-10-M</b>	Mounting Console with base plate with dovetail profile
<b>PS051007E</b>	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

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