

## 5LTM-100-11+25CM-405-10-Y07-A7.5-B-4

Semi-telecentric compact Macro Line Generator

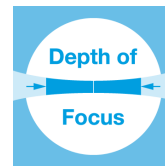


### FEATURES

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

- Line length: 4.8 mm
- Line width: 59  $\mu\text{m}$
- Wavelength: 405 nm
- Working distance: 91 mm
- Depth of focus: 18 mm

- Macro Line Generator for extended depth of focus



## DESCRIPTION

The laser diode beam source type 5LTM-100-11+25CM-405-10-Y07-A7.5-B-4 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 9 %. 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 B](#) for control of the laser output power. The output power can be controlled using the [modulation input port \(TTL\)](#) 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-100-11+25CM-405-10-Y07-A7.5-B-4

<b>Series</b>	5LTM
<b>Order Code</b>	5LTM-100-11+25CM-405-10-Y07-A7.5-B-4
<b>Line profile</b>	Gaussian Intensity Distribution
<b>Line type</b>	Laser Macro Line
<b>Wavelength</b>	405 +5/-5 nm
<b>Laser output power</b>	10 mW
<b>Laser safety class</b>	3B
<b>Focussing range</b>	91-91 mm
<b>Working distance</b>	91 mm
<b>Line length</b>	4.8 mm
<b>Line width</b>	0.059 mm
<b>Depth of focus</b>	18 mm
<b>Edge intensity</b>	9 %
<b>Diameter laser module</b>	12 mm
<b>Module length</b>	66.1 mm
<b>Installation length</b>	187.1 mm
<b>Cable length</b>	1.5 m
<b>Connector type</b>	Lumberg SV40 IEC 61076-2-106
<b>Supply voltage</b>	12 ± 0.5 V
<b>Max. current consumption</b>	0.16 A
<b>Working temperature</b>	0 - 40 °C
<b>Modulation inputs</b>	TTL
<b>Input resistance</b>	110 kOhm
<b>Max. modulation frequency</b>	0.2 kHz
<b>Modulation delay ON/OFF</b>	500/500 µs
<b>Rise / Fall time</b>	10/20 µs

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## ACCESSORIES

9D-12 Screwdriver WS 1.2

PS120516E Power Supply 12 V

## RELATED PRODUCTS

### LASER MODULES SERIES 5LT-2+25CM

- **Compact** 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

- Semi-telecentric Macro Line
- Gaussian intensity distribution
- Constant line length ca. **2 mm**
- Extended depth of focus

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