

5LTM-75-11+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: 44 μm
- Wavelength: 405 nm
- Working distance: 68 mm
- Depth of focus: 10.2 mm

- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LTM-75-11+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-75-11+25CM-405-10-Y07-A7.5-B-4

Series	5LTM
Order Code	5LTM-75-11+25CM-405-10-Y07-A7.5-B-4
Line profile	Gaussian Intensity Distribution
Line type	Laser Macro Line
Wavelength	405 +5/-5 nm
Laser output power	10 mW
Laser safety class	3B
Focussing range	68-68 mm
Working distance	68 mm
Line length	4.8 mm
Line width	0.044 mm
Depth of focus	10.2 mm
Edge intensity	9 %
Diameter laser module	12 mm
Module length	66.1 mm
Installation length	164.1 mm
Cable length	1.5 m
Connector type	Lumberg SV40 IEC 61076-2-106
Supply voltage	12 ± 0.5 V
Max. current consumption	0.16 A
Working temperature	0 - 40 °C
Modulation inputs	TTL
Input resistance	110 kOhm
Max. modulation frequency	0.2 kHz
Modulation delay ON/OFF	500/500 µs
Rise / Fall time	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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