

## 5LTM-150-11+55CM-405-60-X15-A7.5-PS-7

Semi-telecentric Macro Line Generator

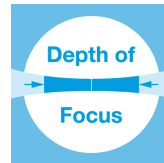


### FEATURES

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

- Line length: 4.8 mm
- Line width: 88  $\mu\text{m}$
- Wavelength: 405 nm
- Working distance: 139 mm
- Depth of focus: 40.6 mm

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



## DESCRIPTION

The laser diode beam source type 5LTM-150-11+55CM-405-60-X15-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 10 %. 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-150-11+55CM-405-60-X15-A7.5-PS-7

|                                  |                                       |            |
|----------------------------------|---------------------------------------|------------|
| <b>Series</b>                    | 5LTM                                  |            |
| <b>Order Code</b>                | 5LTM-150-11+55CM-405-60-X15-A7.5-PS-7 |            |
| <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>        | 60 mW                                 |            |
| <b>Laser safety class</b>        | 3B                                    |            |
| <b>Focussing range</b>           | 139-139 mm                            |            |
| <b>Working distance</b>          | 139 mm                                |            |
| <b>Line length</b>               | 4.8 mm                                |            |
| <b>Line width</b>                | 0.088 mm                              |            |
| <b>Depth of focus</b>            | 40.6 mm                               |            |
| <b>Edge intensity</b>            | 10 %                                  |            |
| <b>Diameter laser module</b>     | 25/28 mm                              |            |
| <b>Module length</b>             | 78.5 mm                               |            |
| <b>Installation length</b>       | 247.5 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

This is a printout of the page [https://sukhamburg.com/products/details/5LTM-150-11\\_55CM-405-60-X15-A7\\_5-PS-7](https://sukhamburg.com/products/details/5LTM-150-11_55CM-405-60-X15-A7_5-PS-7)  
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