

5LTM-330-11+55CM-660-63-M25-A8-P-6

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: 314 μm
- Wavelength: 660 nm
- Working distance: 319 mm
- Depth of focus: 320 mm

- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LTM-330-11+55CM-660-63-M25-A8-P-6 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 5 %. 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 P](#) with micro-controller for control of the laser output power. 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-330-11+55CM-660-63-M25-A8-P-6

| | | |
|---------------------------|------------------------------------|------------|
| Series | 5LTM | |
| Order Code | 5LTM-330-11+55CM-660-63-M25-A8-P-6 | |
| Line profile | Gaussian Intensity Distribution | |
| Line type | Laser Macro Line | |
| Wavelength | 660 +4/-6 nm | |
| Laser output power | 63 mW | |
| Laser safety class | 3B | |
| Focussing range | 319-319 mm | |
| Working distance | 319 mm | |
| Line length | 4.8 mm | |
| Line width | 0.314 mm | |
| Depth of focus | 320 mm | |
| Edge intensity | 5 % | |
| Diameter laser module | 25/28 mm | |
| Module length | 78.5 mm | |
| Installation length | 427.5 mm | |
| Cable length | 1.5 m | |
| Connector type | Lumberg SV50 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 | 0.01 kHz | 250 kHz |
| Modulation delay ON/OFF | 3000/3000 µs | 0.5/0.2 µs |
| Rise / Fall time | 40000/40000 µs | 0.5/0.5 µs |

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

PS051003E

Power Supply 5 V

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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