

5LTM-330-22+55CM-635-5-H10-A8-C-6

Semi-telecentric Macro Line Generator



FEATURES

Semi-telecentric laser line with constant line length of 2.4 mm and extended depth of focus.

Line length: 2.4 mm
Line width: 175 μm
Wavelength: 635 nm
Working distance: 319 mm
Depth of focus: 77 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LTM-330-22+55CM-635-5-H10-A8-C-6 produces a semi-telecentric laser line with 2.4 mm line length. In this case the line length is given on the 13.5%-level. The intensity profile is Gaussian in line direction and the line is truncated at 4.8 mm. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

The laser has integrated electronics $\underline{type\ C}$ for control of the laser output power. The output power can be controlled using the $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$ 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-330-22+55CM-635-5-H10-A8-C-6

Order Code 5LTM-330-22+55CM-635-5-H10-A8-C-6 Line profile Gaussian Intensity Distribution Line type Laser Macro Line Wavelength 635 +10/-10 nm Laser output power 5 mW Laser safety class 3R Focussing range 319-319 mm Working distance 319 mm Line length 2.4 mm Line width 0.175 mm Depth of focus 77 mm Edge intensity 33 % 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 0.25A Working temperature 0 - 40 °C Modulation inputs Analog TTL Input resistance 22 kOhm 22 kOhm Max. modulation frequency 100 kHz 100 kHz Modulation delay ON/OFF 1/0.5 µs 2/1 µs	Series		5LTM
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Max. modulation frequency100 kHz100 kHzModulation delay ON/OFF1/0.5 μs2/1 μs	Modulation inputs	Analog	TTL
Modulation delay ON/OFF 1/0.5 μs 2/1 μs	Input resistance	22 kOhm	22 kOhm
	Max. modulation frequency	100 kHz	100 kHz
Rise / Fall time $3/2 \mu s$ $3/2 \mu s$	Modulation delay ON/OFF	1/0.5 µs	2/1 μs
	Rise / Fall time	3/2 µs	3/2 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 distributionConstant 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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