

5LTM-100-22+25CM-635-5-H10-A8-S-6

Semi-telecentric compact Macro Line Generator



FEATURES

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

Line length: 2.4 mm
Line width: 53 μm
Wavelength: 635 nm
Working distance: 91 mm
Depth of focus: 7.07 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LTM-100-22+25CM-635-5-H10-A8-S-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 $\underline{type\ S}$ 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-100-22+25CM-635-5-H10-A8-S-6

Line type Laser Macro L Wavelength 635 ±10/-10 Laser output power 5 m Laser safety class 5 m Focussing range 91 m Working distance 91 m Line length 2.4 m Line width 0.053 m Depth of focus 7.07 m Edge intensity 33 Diameter laser module 12 m Module length 66.1 m Installation length 1.5 Connector type Lumberg SV50 IEC 61076-2-1 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog T Input resistance 22 kOhm 22 kOhm 22 kO	Series		5LTM	
Line type Laser Macro L Wavelength 635 +10/-10 Laser output power 5n Laser safety class Focussing range 91-91 r Working distance 91 r Line length 2.4 r Line width 0.053 r Depth of focus 7.07 r Edge intensity 33 Diameter laser module 12 r Module length 66.1 r Installation length 187.1 r Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-1 Supply voltage 5 ± 0.25 Max. current consumption 0.25 Modulation inputs Analog T Input resistance 22 kOhm 22 kO	Order Code	5LTM-100-22+25CM-635-5-H10-A8-S-6		
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Laser safety class 91-91 m	Wavelength	635 +10/-10 nm		
Focussing range 91-91 m Working distance 91 m Line length 2.4 m Line width 0.053 m Depth of focus 7.07 m Edge intensity 33 Diameter laser module 12 m Module length 66.1 m Installation length 187.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-1 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog T Input resistance 22 kOhm 22 kOhm	Laser output power	5 mW		
Working distance 91 m Line length 2.4 m Line width 0.053 m Depth of focus 7.07 m Edge intensity 33 Diameter laser module 12 m Module length 66.1 m Installation length 187.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-1 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog T Input resistance 22 kOhm 22 kOhm	Laser safety class	3R		
Line length 2.4 r Line width 0.053 r Depth of focus 7.07 r Edge intensity 33 Diameter laser module 12 r Module length 66.1 r Installation length 187.1 r Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-1 Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature 0 - 40 Modulation inputs Analog T Input resistance 22 kOhm 22 kOhm	Focussing range	91-91 mm		
Line width 0.053 r Depth of focus 7.07 r Edge intensity 33 Diameter laser module 12 r Module length 66.1 r Installation length 187.1 r Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-1 Supply voltage 5 ± 0.2 Max. current consumption 0.25 Working temperature 0 - 40 Modulation inputs Analog T Input resistance 22 kOhm 22 kO	Working distance	91 mm		
Depth of focus 7.07 m Edge intensity 33 Diameter laser module 12 m Module length 66.1 m Installation length 187.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-1 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog T Input resistance 22 kOhm 22 kOhm	Line length	2.4 mm		
Edge intensity 33 Diameter laser module 12 m Module length 66.1 m Installation length 187.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-1 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog T Input resistance 22 kOhm 22 kOhm	Line width	0.053 mm		
Diameter laser module12 mModule length66.1 mInstallation length187.1 mCable length1.5Connector typeLumberg SV50 IEC 61076-2-1Supply voltage5 ± 0.2Max. current consumption0.2Working temperature0 - 40Modulation inputsAnalogTInput resistance22 kOhm22 kO	Depth of focus	7.07 mm		
Module length 66.1 m Installation length 187.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-1 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog T Input resistance 22 kOhm 22 kO	Edge intensity	33 %		
Installation length187.1 mCable length1.5Connector typeLumberg SV50 IEC 61076-2-1Supply voltage5 ± 0.25Max. current consumption0.25Working temperature0 - 40Modulation inputsAnalogTInput resistance22 kOhm22 kO	Diameter laser module	12 mm		
Cable length1.5Connector typeLumberg SV50 IEC 61076-2-1Supply voltage5 ± 0.25Max. current consumption0.25Working temperature0 - 40Modulation inputsAnalogTInput resistance22 kOhm22 kO	Module length	66.1 mm		
Connector typeLumberg SV50 IEC 61076-2-1Supply voltage 5 ± 0.29 Max. current consumption 0.29 Working temperature $0 - 40$ Modulation inputsAnalogTInput resistance 22 kOhm 22 kO	Installation length	187.1 mm		
Supply voltage 5 ± 0.29 Max. current consumption 0.29 Working temperature $0 - 40$ Modulation inputsAnalogTInput resistance 22 kOhm 22 kO	Cable length	1.5 m		
Max. current consumption0.29Working temperature0 - 40Modulation inputsAnalogTInput resistance22 kOhm22 kOhm	Connector type	Lumberg SV50 IEC 61076-2-106		
Working temperature0 - 40Modulation inputsAnalogTInput resistance22 kOhm22 kOhm	Supply voltage	5 ± 0.25 V		
Modulation inputs Analog T Input resistance 22 kOhm 22 kO	Max. current consumption	0.25 A		
Input resistance 22 kOhm 22 kO	Working temperature	0 - 40 °C		
<u>'</u>	Modulation inputs	Analog	TTL	
	Input resistance	22 kOhm	22 kOhm	
max. modulation frequency 50 kHz 1000 k	Max. modulation frequency	50 kHz	1000 kHz	
Modulation delay ON/OFF4/0.5 μs0.05/0.05	Modulation delay ON/OFF	4/0.5 μs	0.05/0.05 μs	
Rise / Fall time $5/4 \mu s$ $0.1/0.02$	Rise / Fall time	5/4 μs	0.1/0.02 μs	

DOWNLOADS





ACCESSORIES

9D-12 Screwdriver WS 1.2

PS051003E Power Supply 5 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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