

5LTM-100-11+25CM-635-7-H10-A8-S-6

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: 92 μm
Wavelength: 635 nm
Working distance: 91 mm
Depth of focus: 28.3 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LTM-100-11+25CM-635-7-H10-A8-S-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 33 %. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

The laser has integrated electronics <u>type S</u> for control of the laser output power. The output power can be controlled using the <u>modulation input ports (TTL and analog)</u> 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-100-11+25CM-635-7-H10-A8-S-6

Line profile Line type Laser Macro L Wavelength 635 +10/-10 Laser output power 7 r Laser safety class Focussing range 91-91 r Working distance 11ne length 4.8 r Line width 0.092 r Depth of focus 28.3 r Edge intensity Diameter laser module Module length 66.1 r Installation length 1.9 c Connector type Lumberg SV50 IEC 61076-2-2-3 Supply voltage Max. current consumption Working temperature 0 - 40 Modulation inputs Analog Input resistance 22 kOhm 22 kO	Series		5LTM
Line type Laser Macro L Wavelength 635 + 10/-10 Laser output power 7 r Laser safety class 91-91 r Focussing range 91-91 r Working distance 91 r Line length 4.8 r Line width 0.092 r Depth of focus 28.3 r Edge intensity 33 Diameter laser module 12 r Module length 66.1 r Installation length 187.1 r Cable length 1.9 r Connector type Lumberg SV50 IEC 61076-2-2 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog Input resistance 22 kOhm 22 kOhm	Order Code	5LTM-100-11+25CM-635-7-H10-A8-S-6	
Wavelength 635 ±10/-10 Laser output power 7 r Laser safety class 91-91 r Working distance 91 r Line length 4.8 r Line width 0.092 r Depth of focus 28.3 r Edge intensity 3 Diameter laser module 12 r Module length 66.1 r Installation length 187.1 r Cable length 1.2 r Connector type Lumberg SV50 IEC 61076-2-7 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog Input resistance 22 kOhm 22 kOhm	Line profile	Gaussian Intensity Distribution	
Laser output power 7 r Laser safety class 91-91 r Working distance 91 r Line length 4.8 r Line width 0.092 r Depth of focus 28.3 r Edge intensity 33 Diameter laser module 12 r Module length 66.1 r Installation length 187.1 r Cable length 1.3 Connector type Lumberg SV50 IEC 61076-2-3 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog Input resistance 22 kOhm 22 kOhm	Line type	Laser Macro Line	
Laser safety class 91-91 m	Wavelength	635 +10/-10 nm	
Focussing range 91-91 m Working distance 91 m Line length 4.8 m Line width 0.092 m Depth of focus 28.3 m Edge intensity 33 Diameter laser module 12 m Module length 66.1 m Installation length 187.1 m Cable length 1.9 Connector type Lumberg SV50 IEC 61076-2-3 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	7 mW	
Working distance 91 m Line length 4.8 m Line width 0.092 m Depth of focus 28.3 m Edge intensity 33 Diameter laser module 12 m Module length 66.1 m Installation length 187.1 m Cable length 1.3 Connector type Lumberg SV50 IEC 61076-2-3 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	3B	
Line length 4.8 m Line width 0.092 m Depth of focus 28.3 m Edge intensity 33 Diameter laser module 12 m Module length 66.1 m Installation length 187.1 m Cable length 1.9 Connector type Lumberg SV50 IEC 61076-2-2 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog 7 Input resistance 22 kOhm 22 kO	Focussing range	91-91 mm	
Line width 0.092 m Depth of focus 28.3 m Edge intensity 33 Diameter laser module 12 m Module length 66.1 m Installation length 187.1 m Cable length 1.3 Connector type Lumberg SV50 IEC 61076-2-2-3 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog Input resistance 22 kOhm 22 kO	Working distance	91 mm	
Depth of focus 28.3 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 61076-2-2 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog Input resistance 22 kOhm 22 kOhm	Line length	4.8 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 61076-2-7 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog Input resistance 22 kOhm 22 kOhm	Line width	0.092 mm	
Diameter laser module12 mModule length66.1 mInstallation length187.1 mCable length1.5Connector typeLumberg SV50 IEC 61076-2-2Supply voltage5 ± 0.2Max. current consumption0.2Working temperature0 - 40Modulation inputsAnalogInput resistance22 kOhm	Depth of focus	28.3 mm	
Module length 66.1 m Installation length 187.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-7 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog 1 Input resistance 22 kOhm 22 kOhm	Edge intensity	33 %	
Installation length 187.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-3 Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature 0 - 40 Modulation inputs Analog 1 Input resistance 22 kOhm 22 kOhm	Diameter laser module	12 mm	
Cable length1.5Connector typeLumberg SV50 IEC 61076-2-3Supply voltage5 ± 0.2Max. current consumption0.2Working temperature0 - 40Modulation inputsAnalogInput resistance22 kOhm	Module length	66.1 mm	
Connector typeLumberg SV50 IEC 61076-2-3Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature $0 - 40$ Modulation inputsAnalogInput resistance 22 kOhm 22 kO	Installation length	187.1 mm	
Supply voltage 5 ± 0.2 Max. current consumption 0.2 Working temperature $0 - 40$ Modulation inputsAnalogInput resistance 22 kOhm 22 kO	Cable length	1.5 m	
Max. current consumption0.2Working temperature0 - 40Modulation inputsAnalog1Input resistance22 kOhm22 kO	Connector type	Lumberg SV50 IEC 61076-2-106	
Working temperature0 - 40Modulation inputsAnalogTInput resistance22 kOhm22 kO	Supply voltage	5 ± 0.25 V	
Modulation inputs Analog Tolerand Tolerand Analog Tolerand Toleran	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



This is a printout of the page https://sukhamburg.com/products/details/5LTM-100-11 25CM-635-7-H10-A8-S-6 from 5/3/2024

CONTACT

For more information please contact: Schäfter + Kirchhoff GmbH Kieler Str. 212 22525 Hamburg Germany

Tel: +49 40 85 39 97-0 Fax: +49 40 85 39 97-79

info@sukhamburg.de www.sukhamburg.com

LEGAL NOTICE

Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [more]