

13LTM-4000-41+90CM-660-21-M25-M60-PS-7

Semi-telecentric Macro Line Generator Semi-telecentric Macro Line Generator



FEATURES

Semi-telecentric laser line with constant line length 15mm, approx. uniform intensity distribution and extended depth of focus.

Line length: 15 mm
Line width: 956 µm
Wavelength: 660 nm
Working distance: 3988 mm
Depth of focus: 2940 mm

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





DESCRIPTION

The laser diode beam source type 13LTM-4000-41+90CM-660-21-M25-M60-PS-7 produces a semi-telecentric laser line with 15 mm line length and extended depth of focus. The intensity profile is approx. uniform in line direction. More precisely, it is Gaussian clipped by an aperture with an edge intensity of 64 %. 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 PS</u> with micro-controller for control of the laser output power and serial interface (RS232). The output power can be controlled using the <u>modulation input ports (TTL and analog)</u> or manually using the potentiometer.



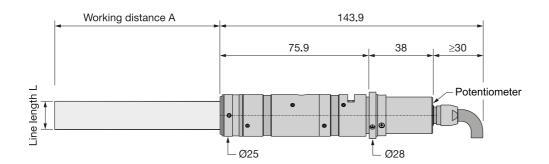
For this laser type the working distance is fixed. A fine-adjustment of the distance between laser and target is recommended for fine-focusing in order to achieve minimal line width.

TECHNICAL DATA

13LTM-4000-41+90CM-660-21-M25-M60-PS-7

Order Code Line profile Constant Intensity Distribution Line type Laser Macro Wavelength Laser output power Laser safety class Focussing range Working distance Line length Line width Depth of focus Edge intensity Module length 13LTM-4000-41+90CM-660-21-M25-M60-F Constant Intensity Distribution Laser Macro 21 Laser safety class Focussing range 3988-3988 Working distance 3988 Line length 15 Line width 17 Line width 17 Line width 18 Line width 19 Line width
Line typeLaser MacroWavelength660 +4/-6Laser output power21Laser safety class21Focussing range3988-3988Working distance3988Line length15Line width0.956Depth of focus2940Edge intensity6Diameter laser module25/28
Wavelength 660 +4/-0 Laser output power 21 Laser safety class Focussing range 3988-3988 Working distance 3988 Line length 15 Line width 0.956 Depth of focus 2940 Edge intensity 6
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Depth of focus 2940 Edge intensity 6 Diameter laser module 25/28
Edge intensity 6 Diameter laser module 25/28
Diameter laser module 25/28
Module length 127.3
12.10
Installation length 4145.3
Cable length 1
Connector type Lumberg SV70 IEC 61076-2
Supply voltage 5 ± 0
Max. current consumption 0.
Working temperature 15 - 4
Modulation inputs Analog
Input resistance 9 kOhm 9 kO
Max. modulation frequency0.001 kHz250
Modulation delay ON/OFF3000/3000 μs0.5/0.
Rise / Fall time 200000/200000 μs 0.8/0.
Interface RS

Dimensions (for a complete dimensional drawing please refer to the downloads section)



DOWNLOADS



ACCESSORIES

9D-12 Screwdriver WS 1.2

PS051007E Power Supply 5 V for laser modules with RS232

interface

RELATED PRODUCTS

LASER MODULES SERIES 13LT

- Semi-telecentric Micro Line
- Uniform intensity distribution
- Constant line length 15 mm

LASER MODULES

SERIES LNC-13LTM

- Semi-telecentric Macro Line
- Uniform intensity distribution
- Constant line length 15 mm
- Extended depth of focus
- Low noise

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-2+25CM

- Compact semi-telecentric Macro Line
- Gaussian intensity distribution
- Constant line length ca. 2 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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