

### 5LTM-500-11+55CM-635-7-H10-A8-CS-7

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: 462 μm
Wavelength: 635 nm
Working distance: 486 mm
Depth of focus: 707 mm

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





## **DESCRIPTION**

The laser diode beam source type 5LTM-500-11+55CM-635-7-H10-A8-CS-7 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 CS</u> 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**

5LTM-500-11+55CM-635-7-H10-A8-CS-7

Line type       Laser Macro Line         Wavelength       635 + 10/-10 m         Laser output power       7 m         Laser safety class       3         Focussing range       486-486 m         Working distance       486 m         Line length       4.8 m         Line width       0.462 m         Depth of focus       707 m         Edge intensity       33         Diameter laser module       25/28 m         Module length       78.5 m         Installation length       594.5 m         Cable length       1.5         Connector type       Lumberg SV70 IEC 61076-2-10         Supply voltage       5 ± 0.2         Max. current consumption       0.25         Working temperature       0 - 40         Modulation inputs       Analog       T	eries 5LTM		
Line type       Laser Macro Line         Wavelength       635 ± 10/-10 m         Laser output power       7 m         Laser safety class       3         Focussing range       486-486 m         Working distance       486 m         Line length       4.8 m         Line width       0.462 m         Depth of focus       707 m         Edge intensity       33         Diameter laser module       25/28 m         Module length       78.5 m         Installation length       594.5 m         Cable length       1.5         Connector type       Lumberg SV70 IEC 61076-2-10         Supply voltage       5 ± 0.2         Max. current consumption       0.25         Working temperature       0 - 40         Modulation inputs       Analog       T	Order Code	5LTM-500-11+55CM-635-7-H10-A8-CS-7	
Wavelength       635 ±10/-10 m         Laser output power       7 m         Laser safety class       3         Focussing range       486-486 m         Working distance       486 m         Line length       4.8 m         Line width       0.462 m         Depth of focus       707 m         Edge intensity       33         Diameter laser module       25/28 m         Module length       78.5 m         Installation length       594.5 m         Cable length       1.5         Connector type       Lumberg SV70 IEC 61076-2-10         Supply voltage       5 ± 0.2         Max. current consumption       0.25         Working temperature       0 - 40°         Modulation inputs       Analog       T	Line profile	Gaussian Intensity Distribution	
Laser output power         7 m           Laser safety class         3           Focussing range         486-486 m           Working distance         486 m           Line length         4.8 m           Line width         0.462 m           Depth of focus         707 m           Edge intensity         33           Diameter laser module         25/28 m           Module length         78.5 m           Installation length         594.5 m           Cable length         1.5           Connector type         Lumberg SV70 IEC 61076-2-10           Supply voltage         5 ± 0.2           Max. current consumption         0.25           Working temperature         0 - 40 m           Modulation inputs         Analog         T	Line type	Laser Macro Line	
Laser safety class  Focussing range  Working distance  Line length  Line width  Depth of focus  Tof m  Edge intensity  Totallation length  Cable length  Connector type  Lumberg SV70 IEC 61076-2-10  Supply voltage  Max. current consumption  Working temperature  Modulation inputs  Analog  Total  Analog  Total  Analog  Total  Analog  Total  Analog  Total  Total  Analog  Total  Analog  Total  Total  Analog  Total  Total  Total  Analog  Total  Total  Total  Analog  Total  Total  Total  Analog  Total  Total	Wavelength	635 +10/-10 nm	
Focussing range  Working distance Line length Line width O.462 m Depth of focus Form Edge intensity Signature laser module Module length Table lengt	Laser output power	7 mW	
Working distance 486 m  Line length 0.462 m  Depth of focus 707 m  Edge intensity 33  Diameter laser module 25/28 m  Module length 78.5 m  Installation length 594.5 m  Cable length 1.5  Connector type Lumberg SV70 IEC 61076-2-10  Supply voltage 5 ± 0.2  Max. current consumption 0.25  Working temperature 0 - 40 m  Modulation inputs Analog T	Laser safety class	3В	
Line length4.8 mLine width0.462 mDepth of focus707 mEdge intensity33Diameter laser module25/28 mModule length78.5 mInstallation length594.5 mCable length1.5Connector typeLumberg SV70 IEC 61076-2-10Supply voltage5 ± 0.2Max. current consumption0.25Working temperature0 - 40 mModulation inputsAnalog	Focussing range	486-486 mm	
Line width0.462 mDepth of focus707 mEdge intensity33Diameter laser module25/28 mModule length78.5 mInstallation length594.5 mCable length1.5Connector typeLumberg SV70 IEC 61076-2-16Supply voltage5 ± 0.2Max. current consumption0.25Working temperature0 - 40 mModulation inputsAnalogT	Working distance	486 mm	
Depth of focus 707 m  Edge intensity 33  Diameter laser module 25/28 m  Module length 78.5 m  Installation length 594.5 m  Cable length 1.5  Connector type Lumberg SV70 IEC 61076-2-10  Supply voltage 5 ± 0.2  Max. current consumption 0.25  Working temperature 0 - 40 m  Modulation inputs Analog T	Line length	4.8 mm	
Edge intensity33Diameter laser module25/28 mModule length78.5 mInstallation length594.5 mCable length1.5Connector typeLumberg SV70 IEC 61076-2-10Supply voltage5 ± 0.2Max. current consumption0.25Working temperature0 - 40 mModulation inputsAnalog	Line width	0.462 mm	
Diameter laser module25/28 mModule length78.5 mInstallation length594.5 mCable length1.5Connector typeLumberg SV70 IEC 61076-2-10Supply voltage5 ± 0.2Max. current consumption0.25Working temperature0 - 40 mModulation inputsAnalog	Depth of focus	707 mm	
Module length78.5 mInstallation length594.5 mCable length1.5Connector typeLumberg SV70 IEC 61076-2-16Supply voltage5 ± 0.2Max. current consumption0.25Working temperature0 - 40 mModulation inputsAnalog	Edge intensity	33 %	
Installation length $594.5  \mathrm{m}$ Cable length $1.5  \mathrm{Connector}$ Connector typeLumberg SV70 IEC 61076-2-10Supply voltage $5 \pm 0.2  \mathrm{Consumption}$ Max. current consumption $0.25  \mathrm{Consumption}$ Working temperature $0 - 40  \mathrm{Consumption}$ Modulation inputsAnalog	Diameter laser module	25/28 mm	
Cable length1.5Connector typeLumberg SV70 IEC 61076-2-10Supply voltage $5 \pm 0.2$ Max. current consumption0.25Working temperature0 - 40 $^{\circ}$ Modulation inputsAnalog	Module length	78.5 mm	
Connector typeLumberg SV70 IEC 61076-2-16Supply voltage $5 \pm 0.2$ Max. current consumption $0.25$ Working temperature $0 - 40^{\circ}$ Modulation inputsAnalog	Installation length	594.5 mm	
Supply voltage $5 \pm 0.2$ Max. current consumption $0.25$ Working temperature $0 - 40^{\circ}$ Modulation inputsAnalog	Cable length	1.5 m	
Max. current consumption 0.25  Working temperature 0 - 40 december	Connector type	Lumberg SV70 IEC 61076-2-106	
Working temperature 0 - 40 °  Modulation inputs Analog T	Supply voltage	5 ± 0.2 V	
Modulation inputs Analog T	Max. current consumption	0.25 A	
· · · · · · · · · · · · · · · · · · ·	Working temperature	0 - 40 °C	
Input resistance 9 kOhm 9 kOhm	Modulation inputs	Analog	TTL
	Input resistance	9 kOhm	9 kOhm
Max. modulation frequency0.001 kHz250 kHz	Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF         3000/3000 μs         0.5/0.2	Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs
Rise / Fall time         200000/200000 μs         0.8/0.4	Rise / Fall time	200000/200000 μs	0.8/0.4 μs
Interface RS2			

### **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

**PS051007E** Power Supply 5 V for laser modules with RS232

interface

### **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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