

# 5LM8-S325+55CM-639-17-H18-A8-CS-7

Micro Line Generator with a fan angle



#### **FEATURES**

Laser line with a fan angle and Gaussian intensity distribution.

Line length: 47.5 mm
Line width: 140 μm
Wavelength: 639 nm
Working distance: 313 mm

- Micro Line Generator for small laser line widths and high power density in the focal plane
- With RS232 interface





## **DESCRIPTION**

The laser diode beam source type 5LM8-S325+55CM-639-17-H18-A8-CS-7 has a fan angle of 8°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 44 %. The line width is constant along the laser line. Across the laser line the intensity distribution is 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.

The working distance can be adjusted by adjusting the focus setting. Please note that beam parameters like line length and line width increase proportionally to the working distance.



A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

# **TECHNICAL DATA**

5LM8-S325+55CM-639-17-H18-A8-CS-7

Series		5LM
Order Code	5LM8-S325+55CM-639-17-H18-A8-CS-7	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	639 +10/-10 nm	
Laser output power	17 mW	
Laser safety class	3B	
Fan angle α	8 deg	
Focussing range	255-425 mm	
Working distance	313 mm	
Line length	47.5 mm	
Line width	0.14 mm	
Rayleigh range	48 mm	
Edge intensity	44 %	
Diameter laser module	25/28 mm	
Module length	77.3 mm	
Installation length	420.3 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.25 A	
Working temperature	0 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs
Rise / Fall time	200000/200000 μs	0.8/0.4 μs
Interface	face RS232	



## **ACCESSORIES**

**50HD-15** Hex key WS 1.5

**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

• Macro Line, small fan angle
• Gaussian intensity distribution

Extended depth of focus

LASER MODULES • Micro Line, small fan angle

SERIES LNC-5LM • Gaussian intensity distribution

Low noise

LASER MODULES • Micro Line Generator, fan angle

SERIES 13LR • Uniform intensity distribution

LASER MODULES • Micro Line, small fan angle

SERIES 13LN • Uniform intensity distribution

Thin lines

LASER MODULES • Compact Micro Line, large fan angle

SERIES 5LP+25CM • Gaussian intensity distribution

LASER MODULES • Compact Micro Line, small fan angle

SERIES 5LM+25CM • Gaussian intensity distribution

LASER MODULES • Micro Line, large fan angle

SERIES 5LP • Gaussian intensity distribution



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