5LM8-S000+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: 140 mm
- Line width: 430 μm
- Wavelength: 639 nm
- Working distance: 1000 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-S000+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</u> <u>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-S000+55CM-639-17-H18-A8-CS-7

Series		5LM
Order Code	5LM8-S000+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	3В	
Fan angle α	8 deg	
Focussing range	425-inf mm	
Working distance	1000 mm	
Line length	140 mm	
Line width	0.43 mm	
Rayleigh range	454 mm	
Edge intensity	ensity 44 %	
Diameter laser module	25/28 mm	
Module length	73.1 mm	
Installation length	1103.1 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		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 SERIES 5LMM	 Macro Line, small fan angle Gaussian intensity distribution Extended depth of focus
LASER MODULES SERIES LNC-5LM	 Micro Line, small fan angle Gaussian intensity distribution Low noise
LASER MODULES SERIES 13LR	 Micro Line Generator, fan angle Uniform intensity distribution
LASER MODULES SERIES 13LN	 Micro Line, small fan angle Uniform intensity distribution Thin lines
LASER MODULES SERIES 5LP+25CM	 Compact Micro Line, large fan angle Gaussian intensity distribution
LASER MODULES SERIES 5LM+25CM	 Compact Micro Line, small fan angle Gaussian intensity distribution
LASER MODULES SERIES 5LP	 Micro Line, large fan angle Gaussian intensity distribution



DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/5LM8-S000_55CM-639-17-H18-A8-CS-7</u> from 4/26/2024

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