

### 5LP60-S000+55CM-639-17-H18-A8-CS-7

Micro Line Generator with a large fan angle



#### **FEATURES**

Laser line with a large fan angle and Gaussian intensity distribution.

Line length: 1200 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 5LP60-S000+55CM-639-17-H18-A8-CS-7 has a fan angle of 62°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 38 %. 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**

5LP60-S000+55CM-639-17-H18-A8-CS-7

Order Code         5LP60-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         38           Fan angle α         62 deg           Focussing range         430-inf mm           Working distance         1000 mm           Line length         1200 mm           Line width         0.43 mm           Rayleigh range         454 mm           Edge intensity         38 %           Diameter laser module         25/28 mm           Module length         86.1 mm           Installation length         1116.1 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	Series 5LP		
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Interface RS232	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

### RELATED PRODUCTS

Macro Line, large fan angle LASER MODULES **SERIES 5LPM** Gaussian intensity distribution

Extended depth of focus

**LASER MODULES** Micro Line, large fan angle **SERIES LNC-5LP** 

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, small fan angle

**SERIES 5LM+25CM** Gaussian intensity distribution

LASER MODULES ■ Compact Micro Line, large fan angle

**SERIES 5LP+25CM** Gaussian intensity distribution

LASER MODULES • Micro Line, small fan angle

**SERIES 5LM** Gaussian intensity distribution



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