### 5LP60-S000+55CM-635-9-H10-A8-CS-7

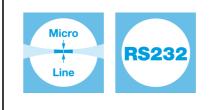
Micro Line Generator with a large fan angle



### FEATURES

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

- Line length: 1200 mm
- Line width: 427 μm
- Wavelength: 635 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-635-9-H10-A8-CS-7 has a fan angle of  $62^{\circ}$ .

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 31 %. 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**

5LP60-S000+55CM-635-9-H10-A8-CS-7

Series		5LP
Order Code	5LP60-S000+55CM-635-9-H10-A8-CS-7	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	635 +10/-10 nm	
Laser output power	9 mW	
Laser safety class	3В	
Fan angle α	62 deg	
Focussing range	430-inf mm	
Working distance	1000 mm	
Line length	1200 mm	
Line width	0.427 mm	
Rayleigh range	451 mm	
Edge intensity	31 %	
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/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 5LPM	<ul> <li>Macro Line, large fan angle</li> <li>Gaussian intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES LNC-5LP	<ul> <li>Micro Line, large fan angle</li> <li>Gaussian intensity distribution</li> <li>Low noise</li> </ul>
LASER MODULES SERIES 13LR	<ul> <li>Micro Line Generator, fan angle</li> <li>Uniform intensity distribution</li> </ul>
LASER MODULES SERIES 13LN	<ul> <li>Micro Line, small fan angle</li> <li>Uniform intensity distribution</li> <li>Thin lines</li> </ul>
LASER MODULES SERIES 5LM+25CM	<ul> <li>Compact Micro Line, small fan angle</li> <li>Gaussian intensity distribution</li> </ul>
LASER MODULES SERIES 5LP+25CM	<ul> <li>Compact Micro Line, large fan angle</li> <li>Gaussian intensity distribution</li> </ul>
LASER MODULES SERIES 5LM	<ul> <li>Micro Line, small fan angle</li> <li>Gaussian intensity distribution</li> </ul>

## **DATA SHEET**

This is a printout of the page <u>https://sukhamburg.com/products/details/5LP60-S000\_55CM-635-9-H10-A8-CS-7</u> from 4/26/2024

## CONTACT

For more information please contact: Schäfter + Kirchhoff GmbH Kieler Str. 212 22525 Hamburg Germany Tel: +49 40 85 39 97-0 Fax: +49 40 85 39 97-79

info@sukhamburg.de www.sukhamburg.com

## **LEGAL NOTICE**

#### Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [more]

