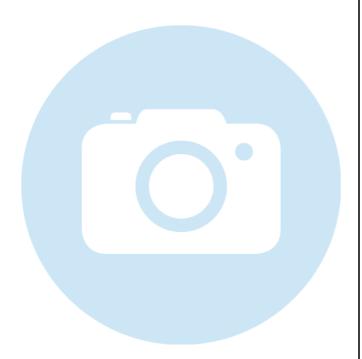


# 5LP40-S000+25CM-785-85-Q06-A8-S-6

Compact Micro Line Generator with a large fan angle



#### **FEATURES**

Compact laser line with a large fan angle and Gaussian intensity distribution.

Line length: 720 mm
Line width: 470 μm
Wavelength: 785 nm
Working distance: 1000 mm

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



#### DESCRIPTION

The laser diode beam source type 5LP40-S000+25CM-785-85-Q06-A8-S-6 has a fan angle of 40°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 3 %. 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 S</u> for control of the laser output power. 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.

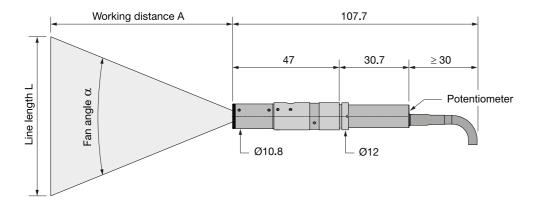


# **TECHNICAL DATA**

5LP40-S000+25CM-785-85-Q06-A8-S-6

Series		5LP
Order Code	5LP40-S000+25CM-785-85-Q06-A8-S-6	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	785 +10/-10 nm	
Laser output power	85 mW	
Laser safety class	3В	
Fan angle α	40 deg	
Focussing range	430-inf mm	
Working distance	1000 mm	
Line length	720 mm	
Line width	0.47 mm	
Rayleigh range	441 mm	
Edge intensity	3 %	
Diameter laser module	12 mm	
Module length	77.7 mm	
Installation length	1107.7 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.25 V	
Max. current consumption	0.25 A	
Working temperature	0 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	22 kOhm	22 kOhm
Max. modulation frequency	50 kHz	1000 kHz
Modulation delay ON/OFF	4/0.5 μs	0.05/0.05 μs
Rise / Fall time	5/4 μs	0.1/0.02 μs
<u> </u>		

Dimensions (for a complete dimensional drawing please refer to the downloads section)



## **DOWNLOADS**



## **ACCESSORIES**

60EX-4 Eccentric key with a stroke of ± 0.5 mm.

60EX-4-L Alternative eccentric key with long handle with a

stroke of ± 0.5 mm.

9D-12 Screwdriver WS 1.2

13MK-25-36-10-F Mounting Console with flat base plate

Mounting Console with base plate with dovetail 13MK-25-36-10-M

profile

PS051003E Power Supply 5 V

### **RELATED PRODUCTS**

■ Compact Macro Line, large fan angle **LASER MODULES** 

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

Extended depth of focus

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

Gaussian intensity distribution

Low noise



LASER MODULES SERIES 13LR Micro Line Generator, fan angleUniform intensity distribution

LASER MODULES SERIES 13LN Micro Line, small fan angleUniform intensity distribution

Thin lines

LASER MODULES SERIES 5LM+25CM ■ Compact Micro Line, small fan angle

Gaussian intensity distribution

LASER MODULES
SERIES 5LP

Micro Line, large fan angleGaussian intensity distribution

LASER MODULES SERIES 5LM

Micro Line, small fan angleGaussian intensity distribution

This is a printout of the page <a href="https://sukhamburg.com/products/details/5LP40-S000">https://sukhamburg.com/products/details/5LP40-S000</a> 25CM-785-85-Q06-A8-S-6 from 5/2/2024

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