

5LP80-S325+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: 565 mm
Line width: 153 μm
Wavelength: 785 nm
Working distance: 317 mm

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



DESCRIPTION

The laser diode beam source type 5LP80-S325+25CM-785-85-Q06-A8-S-6 has a fan angle of 84°.

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 $\underline{type\ S}$ for control of the laser output power. The output power can be controlled using the $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$ 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

5LP80-S325+25CM-785-85-Q06-A8-S-6

Line profile Gaussian Intensity Distribution Line type Laser Micro Line Wavelength 785 ± 10/-10 nr Laser output power 85 mV Laser safety class 31 Fan angle α 84 de Focussing range 260-430 mr Working distance 317 mr Line length 565 mr Line width 0.153 mr Rayleigh range 46.6 mr Edge intensity 39 Diameter laser module 12 mr Module length 73.7 mr Installation length 420.7 mr Cable length 1.5 mr Connector type Lumberg SV50 IEC 61076-2-10 Supply voltage 5 ± 0.25 mr Max. current consumption 0.25 mr Working temperature 0 - 40 mr Modulation inputs Analog TT Input resistance 22 kOhm 22 kOhm	Series		5LP	
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Working temperature0 - 40 °CModulation inputsAnalogTTInput resistance22 kOhm22 kOhr	Supply voltage	5 ± 0.25 V		
Modulation inputs Analog TT Input resistance 22 kOhm 22 kOhr	Max. current consumption	0.25 A		
Input resistance 22 kOhm 22 kOhr	Working temperature	0 - 40 °C		
	Modulation inputs	Analog	TTL	
	Input resistance	22 kOhm	22 kOhm	
Max. modulation frequency50 kHz1000 kH	Max. modulation frequency	50 kHz	1000 kHz	
Modulation delay ON/OFF 4/0.5 μs 0.05/0.05 μ	Modulation delay ON/OFF	4/0.5 μs	0.05/0.05 μs	
Rise / Fall time 5/4 μs 0.1/0.02 μ	Rise / Fall time	5/4 μs	0.1/0.02 μs	

ACCESSORIES

60EX-4

Eccentric key with a stroke of \pm 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

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

profile

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES ■ Compact Macro Line, large fan angle

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 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

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

LASER MODULES Micro Line, large fan angle

Gaussian intensity distribution **SERIES 5LP**

LASER MODULES Micro Line, small fan angle

Gaussian intensity distribution **SERIES 5LM**



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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

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