

## 5LP60-S50+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: 48 mm
- Line width: 23  $\mu\text{m}$
- Wavelength: 785 nm
- Working distance: 46 mm

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



## DESCRIPTION

The laser diode beam source type 5LP60-S50+25CM-785-85-Q06-A8-S-6 has a fan angle of 62°.

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 [type S](#) for control of the laser output power. The output power can be controlled using the [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

5LP60-S50+25CM-785-85-Q06-A8-S-6

Series	5LP	
Order Code	5LP60-S50+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	3B	
Fan angle $\alpha$	62 deg	
Focussing range	35-70 mm	
Working distance	46 mm	
Line length	48 mm	
Line width	0.023 mm	
Rayleigh range	1.1 mm	
Edge intensity	3 %	
Diameter laser module	12 mm	
Module length	73.7 mm	
Installation length	149.7 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 $\pm$ 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 $\mu$ s	0.05/0.05 $\mu$ s
Rise / Fall time	5/4 $\mu$ s	0.1/0.02 $\mu$ s

## 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 $\pm 0.5$ 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 SERIES 5LPM+25CM	<ul style="list-style-type: none"><li>▪ <b>Compact</b> Macro Line, <b>large</b> fan angle</li><li>▪ Gaussian intensity distribution</li><li>▪ Extended depth of focus</li></ul>
LASER MODULES SERIES LNC-5LP	<ul style="list-style-type: none"><li>▪ Micro Line, <b>large</b> fan angle</li><li>▪ Gaussian intensity distribution</li><li>▪ Low noise</li></ul>
LASER MODULES SERIES 13LR	<ul style="list-style-type: none"><li>▪ Micro Line Generator, fan angle</li><li>▪ Uniform intensity distribution</li></ul>
LASER MODULES SERIES 13LN	<ul style="list-style-type: none"><li>▪ Micro Line, <b>small</b> fan angle</li><li>▪ Uniform intensity distribution</li><li>▪ Thin lines</li></ul>
LASER MODULES SERIES 5LM+25CM	<ul style="list-style-type: none"><li>▪ <b>Compact</b> Micro Line, <b>small</b> fan angle</li><li>▪ Gaussian intensity distribution</li></ul>
LASER MODULES SERIES 5LP	<ul style="list-style-type: none"><li>▪ Micro Line, <b>large</b> fan angle</li><li>▪ Gaussian intensity distribution</li></ul>
LASER MODULES SERIES 5LM	<ul style="list-style-type: none"><li>▪ Micro Line, <b>small</b> fan angle</li><li>▪ Gaussian intensity distribution</li></ul>

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