

## 5LP40-S325+55CM-685-37-H13-A8-CS-7

Micro Line Generator with a large fan angle

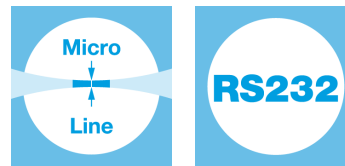


### FEATURES

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

- Line length: 228 mm
- Line width: 126  $\mu\text{m}$
- Wavelength: 685 nm
- Working distance: 317 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 5LP40-S325+55CM-685-37-H13-A8-CS-7 has a fan angle of 40°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 14 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics [type CS](#) for control of the laser output power and serial interface (RS232). 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

5LP40-S325+55CM-685-37-H13-A8-CS-7

<b>Series</b>	5LP	
<b>Order Code</b>	5LP40-S325+55CM-685-37-H13-A8-CS-7	
<b>Line profile</b>	Gaussian Intensity Distribution	
<b>Line type</b>	Laser Micro Line	
<b>Wavelength</b>	685 +10/-10 nm	
<b>Laser output power</b>	37 mW	
<b>Laser safety class</b>	3B	
<b>Fan angle <math>\alpha</math></b>	40 deg	
<b>Focussing range</b>	260-430 mm	
<b>Working distance</b>	317 mm	
<b>Line length</b>	228 mm	
<b>Line width</b>	0.126 mm	
<b>Rayleigh range</b>	36.5 mm	
<b>Edge intensity</b>	14 %	
<b>Diameter laser module</b>	25/28 mm	
<b>Module length</b>	90.1 mm	
<b>Installation length</b>	437.1 mm	
<b>Cable length</b>	1.5 m	
<b>Connector type</b>	Lumberg SV70 IEC 61076-2-106	
<b>Supply voltage</b>	5 ± 0.2 V	
<b>Max. current consumption</b>	0.25 A	
<b>Working temperature</b>	0 - 40 °C	
<b>Modulation inputs</b>	Analog	TTL
<b>Input resistance</b>	9 kOhm	9 kOhm
<b>Max. modulation frequency</b>	0.001 kHz	250 kHz
<b>Modulation delay ON/OFF</b>	3000/3000 $\mu$ s	0.5/0.2 $\mu$ s
<b>Rise / Fall time</b>	200000/200000 $\mu$ s	0.8/0.4 $\mu$ s
<b>Interface</b>	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

- Macro Line, **large** fan angle
- Gaussian intensity distribution
- Extended depth of focus

### LASER MODULES SERIES LNC-5LP

- Micro Line, **large** fan angle
- Gaussian intensity distribution
- Low noise

### LASER MODULES SERIES 13LR

- Micro Line Generator, fan angle
- Uniform intensity distribution

### LASER MODULES SERIES 13LN

- Micro Line, **small** fan angle
- Uniform intensity distribution
- Thin lines

### LASER MODULES SERIES 5LM+25CM

- **Compact** Micro Line, **small** fan angle
- Gaussian intensity distribution

### LASER MODULES SERIES 5LP+25CM

- **Compact** Micro Line, **large** fan angle
- Gaussian intensity distribution

### LASER MODULES SERIES 5LM

- Micro Line, **small** fan angle
- Gaussian intensity distribution

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