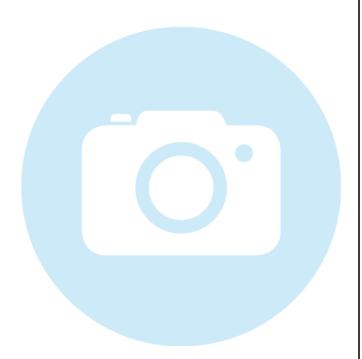


5M-S88+55CM-660-105-M25-A8-PS-7

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Compact Laser spot with elliptical Gaussian beam profile.

■ Spot diameter: 0.019 x 0.031 mm

Wavelength: 660 nmWorking distance: 82 mm

- Micro Focus Generator for small spot widths and high power density in the focal plane
- With RS232 interface





DESCRIPTION

The laser diode beam source type 5M-S88+55CM-660-105-M25-A8-PS-7 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type PS</u> with micro-controller for control of the laser output power and serial interface (RS232). 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 the spot diameter increases proportionally to the working distance. A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

5M-S88+55CM-660-105-M25-A8-PS-7



Line profile Gaussian Intensity Distribution Wavelength 660 +4/-6 nm Laser output power 105 mW Laser safety class 3B Focussing range 70-125 mm Working distance 82 mm Spot height 0.031 mm Spot width 0.019 mm Rayleigh range 0.818 mm Diameter laser module 25/28 mm Module length 73.1 mm Installation length 185.1 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 15 - 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	Series		5M
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Installation length185.1 mmCable length1.5 mConnector typeLumberg SV70 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature15 - 40 °CModulation inputsAnalogTTLInput resistance9 kOhm9 kOhmMax. modulation frequency0.001 kHz250 kHzModulation delay ON/OFF3000/3000 μs0.5/0.2 μs	Diameter laser module	25/28 mm	
Cable length Connector type Lumberg SV70 IEC 61076-2-106 Supply voltage 5 ± 0.2 V Max. current consumption 0.25 A Working temperature 15 - 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	Module length	73.1 mm	
Connector typeLumberg SV70 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature15 - 40 °CModulation inputsAnalogTTLInput resistance9 kOhm9 kOhmMax. modulation frequency0.001 kHz250 kHzModulation delay ON/OFF3000/3000 μs0.5/0.2 μs	Installation length	185.1 mm	
Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature15 - 40 °CModulation inputsAnalogTTLInput resistance9 kOhm9 kOhmMax. modulation frequency0.001 kHz250 kHzModulation delay ON/OFF3000/3000 μs0.5/0.2 μs	Cable length	1.5 m	
Max. current consumption0.25 AWorking temperature15 - 40 °CModulation inputsAnalogTTLInput resistance9 kOhm9 kOhmMax. modulation frequency0.001 kHz250 kHzModulation delay ON/OFF3000/3000 μs0.5/0.2 μs	Connector type	Lumberg SV70 IEC 61076-2-106	
Working temperature15 - 40 °CModulation inputsAnalogTTLInput resistance9 kOhm9 kOhmMax. modulation frequency0.001 kHz250 kHzModulation delay ON/OFF3000/3000 μs0.5/0.2 μs	Supply voltage	5 ± 0.2 V	
Modulation inputsAnalogTTLInput resistance9 kOhm9 kOhmMax. modulation frequency0.001 kHz250 kHzModulation delay ON/OFF3000/3000 μs0.5/0.2 μs	Max. current consumption	0.25 A	
Input resistance9 kOhm9 kOhmMax. modulation frequency0.001 kHz250 kHzModulation delay ON/OFF3000/3000 μs0.5/0.2 μs	Working temperature		15 - 40 °C
Max. modulation frequency0.001 kHz250 kHzModulation delay ON/OFF3000/3000 μs0.5/0.2 μs	Modulation inputs	Analog	TTL
Modulation delay ON/OFF 3000/3000 μs 0.5/0.2 μs	Input resistance	9 kOhm	9 kOhm
	Max. modulation frequency	0.001 kHz	250 kHz
Rise / Fall time 200000/200000 μs 0.8/0.4 μs	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	Interface	RS232	

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

RELATED PRODUCTS



LASER MODULES

Compact Laser Macro Focus Generator

SERIES 5MM

Circular beam profile andExtended depth of focus

LASER MODULES

Micro Focus Generator

SERIES 13MC

Rotationally symmetric, Gaussian beam profile

LASER MODULES

Compact Laser Micro Focus Generator

SERIES 5MC

• Rotationally symmetric, Gaussian beam profile

LASER MODULES

Micro Focus Generator

SERIES 13M

Elliptical Gaussian beam profile

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