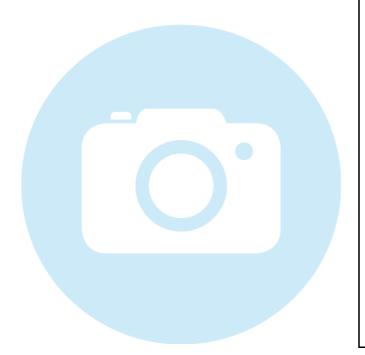


5M-S150+55CM-488-42-O09-A7.5-P-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Compact Laser spot with elliptical Gaussian beam profile.

Spot diameter: 0.021 x 0.06 mm

Wavelength: 488 nm

Working distance: 147 mm

 Micro Focus Generator for small spot widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 5M-S150+55CM-488-42-O09-A7.5-P-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type P</u> with micro-controller 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 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-S150+55CM-488-42-O09-A7.5-P-6

Series 5M



Order Code	5M-S150+55CM-488-42-O09-A7.5-P-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	488 +2/-2 nm	
Laser output power	42 mW	
Laser safety class	3В	
Focussing range	125-260 mm	
Working distance	147 mm	
Spot height	0.06 mm	
Spot width	0.021 mm	
Rayleigh range	1.38 mm	
Diameter laser module	25/28 mm	
Module length	73.1 mm	
Installation length	250.1 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5 A	
Working temperature	15 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.01 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs
Rise / Fall time	40000/40000 μs	0.5/0.5 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

RELATED PRODUCTS



LASER MODULES Compact Laser Macro Focus Generator

SERIES 5MM • Circular beam profile and

Extended 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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