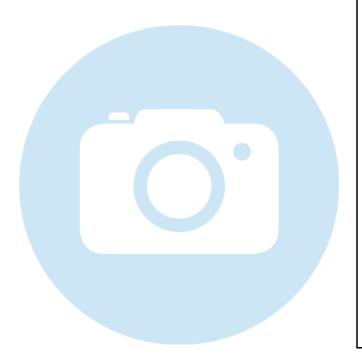


5M-S150+55CM-830-35-H19-A8-C-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Compact Laser spot with elliptical Gaussian beam profile.

■ Spot diameter: 0.032 x 0.074 mm

Wavelength: 830 nmWorking 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-830-35-H19-A8-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics $\underline{type\ C}$ 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 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-830-35-H19-A8-C-6

Series 5M



Line profile Wavelength	Gaussian Inter	nsity Distribution	
Wavelength			
		830 +10/-10 nm	
Laser output power	35 mW		
Laser safety class	3B		
Focussing range	125-260 mm		
Working distance	147 mm		
Spot height	0.074 mm		
Spot width	0.032 mm		
Rayleigh range	1.96 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	0.25 A		
Working temperature	0 - 40 °C		
Modulation inputs	Analog	TTL	
Input resistance	22 kOhm	22 kOhm	
Max. modulation frequency	100 kHz	100 kHz	
Modulation delay ON/OFF	1/0.5 μs	2/1 μs	
Rise / Fall time	3/2 μs	3/2 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 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

This is a printout of the page $\underline{\text{https://sukhamburg.com/products/details/5M-S150}}$ 55CM-830-35-H19-A8-C-6 from 5/4/2024

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