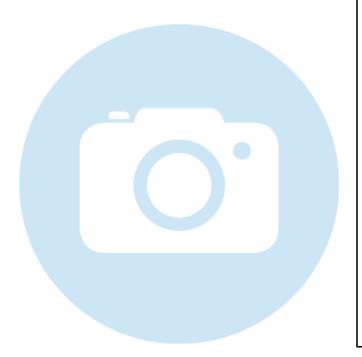


## 5M-S150+55CM-660-105-M25-A8-P-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



#### **FEATURES**

Compact Laser spot with elliptical Gaussian beam profile.

Spot diameter: 0.032 x 0.053 mm

Wavelength: 660 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-660-105-M25-A8-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-660-105-M25-A8-P-6

Series 5M



Line profile  Wavelength  Laser output power  Laser safety class	Gaussian Inter	nsity Distribution 660 +4/-6 nm 105 mW 3B 125-260 mm	
Laser output power Laser safety class		105 mW 3B	
Laser safety class		3B	
Facusaina vanas		125-260 mm	
Focussing range		125-260 mm	
Working distance	147 mm		
Spot height	0.053 mm		
Spot width	0.032 mm		
Rayleigh range	2.38 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	0.25 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 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-660-105-M25-A8-P-6 from 5/5/2024

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