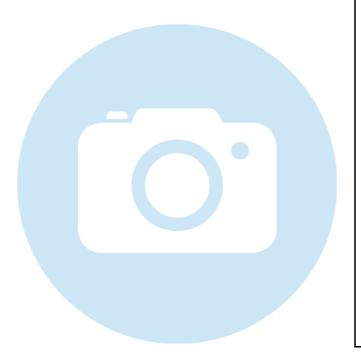


# 5M-A6+55CM-488-42-O09-A7.5-P-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



#### **FEATURES**

Compact Laser spot with elliptical Gaussian beam profile.

Spot diameter: 0.001 x 0.002 mm

Wavelength: 488 nmWorking distance: 3 mm

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



### **DESCRIPTION**

The laser diode beam source type 5M-A6+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-A6+55CM-488-42-O09-A7.5-P-6

Series 5M



Order Code	5M-A6+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	3B	
Focussing range	2-6 mm	
Working distance	3 mm	
Spot height	0.002 mm	
Spot width	0.001 mm	
Rayleigh range	0.002 mm	
Diameter laser module	25/28 mm	
Module length	76.4 mm	
Installation length	109.4 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 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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### CONTACT

For more information please contact: Schäfter + Kirchhoff GmbH Kieler Str. 212 22525 Hamburg Germany

Tel: +49 40 85 39 97-0 Fax: +49 40 85 39 97-79

info@sukhamburg.de www.sukhamburg.com

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