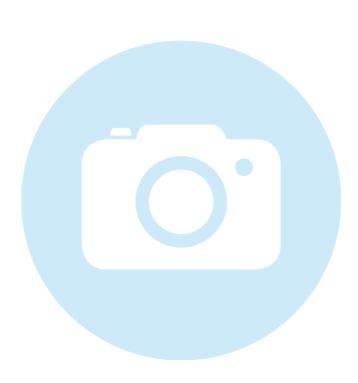
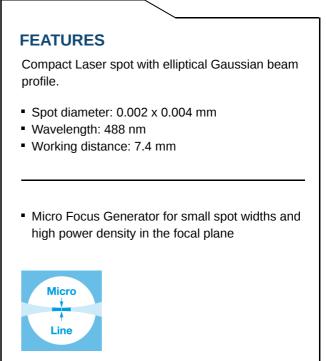
#### 5M-A11+55CM-488-42-009-A7.5-P-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile





#### DESCRIPTION

The laser diode beam source type 5M-A11+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-A11+55CM-488-42-O09-A7.5-P-6

Series

5M



#### **DATA SHEET**

Order Code	5M-A11+55CM-488-42-009-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	6-15 mm	
Working distance	7.4 mm	
Spot height	0.004 mm	
Spot width	0.002 mm	
Rayleigh range	0.007 mm	
Diameter laser module	25/28 mm	
Module length	76.4 mm	
Installation length	113.8 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5A	
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 $\pm$ 0.5 mm.
9D-12	Screwdriver WS 1.2

# **RELATED PRODUCTS**





LASER MODULES SERIES 5MM	<ul> <li>Compact Laser Macro Focus Generator</li> <li>Circular beam profile and</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 13MC	<ul> <li>Micro Focus Generator</li> <li>Rotationally symmetric, Gaussian beam profile</li> </ul>
LASER MODULES SERIES 5MC	<ul> <li>Compact Laser Micro Focus Generator</li> <li>Rotationally symmetric, Gaussian beam profile</li> </ul>
LASER MODULES SERIES 13M	<ul> <li>Micro Focus Generator</li> <li>Elliptical Gaussian beam profile</li> </ul>

This is a printout of the page <u>https://sukhamburg.com/products/details/5M-A11\_55CM-488-42-O09-A7\_5-P-6</u> from 4/26/2024

### 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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