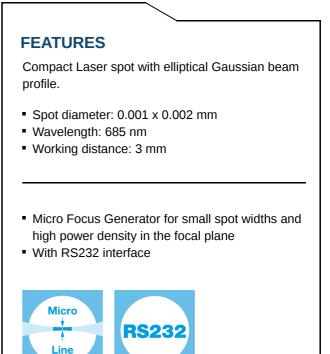
#### 5M-A6+55CM-685-39-H13-A8-CS-7

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile





# DESCRIPTION

The laser diode beam source type 5M-A6+55CM-685-39-H13-A8-CS-7 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type CS</u> for control of the laser output power and serial interface (RS232). The output power can be controlled using the <u>modulation input</u> <u>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-685-39-H13-A8-CS-7



#### **DATA SHEET**

Series		5M
Order Code	5M-A6+55CM-685-39-H13-A8-CS-7	
Line profile	Gaussian Intensity Distribution	
Wavelength	685 +10/-10 nm	
Laser output power	39 mW	
Laser safety class	3В	
Focussing range	2-6 mm	
Working distance	3 mm	
Spot height	0.002 mm	
Spot width	0.001 mm	
Rayleigh range	0.003 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 SV70 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	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs
Rise / Fall time	200000/200000 μs	0.8/0.4 µs
Interface RS232		

# 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-A6\_55CM-685-39-H13-A8-CS-7</u> from 5/2/2024

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