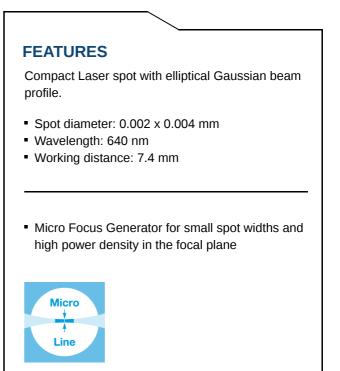
#### 5M-A11+25CM-640-28-H22-A8-S-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile





### DESCRIPTION

The laser diode beam source type 5M-A11+25CM-640-28-H22-A8-S-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type S</u> 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+25CM-640-28-H22-A8-S-6

Series

5M



#### **DATA SHEET**

Order Code	5M-A11+25CM-640-28-H22-A8-S-6		
Line profile	Gaussian Intensity Distribution		
Wavelength	640 +5/-5 nm		
Laser output power	28 mW		
Laser safety class	3В		
Focussing range	6-15 mm		
Working distance	7.4 mm		
Spot height	0.004 mm		
Spot width	0.002 mm		
Rayleigh range	0.009 mm		
Diameter laser module	12 mm		
Module length	64 mm		
Installation length	101.4 mm		
Cable length	1.5 m		
Connector type	Lumberg SV50 IEC 61076-2-106		
Supply voltage	5 ± 0.25 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	50 kHz	1000 kHz	
Modulation delay ON/OFF	4/0.5 μs	0.05/0.05 μs	
Rise / Fall time	5/4 µs	0.1/0.02 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
PS051003E	Power Supply 5 V

# **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\_25CM-640-28-H22-A8-S-6</u> from 5/3/2024

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