#### 5MC-S50+29CM-635-4-B08-M12-S-6

Compact Laser Micro Focus Generator with rotationally symmetric beam profile



#### FEATURES

Compact laser spot with rotationally symmetric, Gaussian beam profile.

- Spot diameter: 0.014 x 0.014 mm
- Wavelength: 635 nm
- Working distance: 46 mm
- Micro Focus Generator for small spot widths and high power density in the focal plane



### DESCRIPTION

The laser diode beam source type 5MC-S50+29CM-635-4-B08-M12-S-6 produces a rotationally symmetric circular laser spot with 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**

5MC-S50+29CM-635-4-B08-M12-S-6

Series

5MC



Order Code	5MC-S50+29CM-635-4-B08-M12-S-6		
Line profile	Gaussian Intensity Distribution		
Wavelength	635 +5/-5 nm		
Laser output power	4 mW		
Laser safety class	3R		
Focussing range	35-70 mm		
Working distance	46 mm		
Spot height	0.014 mm		
Spot width	0.014 mm		
Rayleigh range	0.501 mm		
Diameter laser module	12 mm		
Module length	65.2 mm		
Installation length	141.2 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	Compact Laser Micro Focus Generator
SERIES 5M	<ul> <li>Elliptical Gaussian beam profile</li> </ul>

LASER MODULES SERIES 13MC

LASER MODULES SERIES 13M

- Micro Focus Generator
- Rotationally symmetric, Gaussian beam profile
- Micro Focus Generator
- Elliptical Gaussian beam profile

This is a printout of the page <u>https://sukhamburg.com/products/details/5MC-S50\_29CM-635-4-B08-M12-S-6</u> from 5/8/2024

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