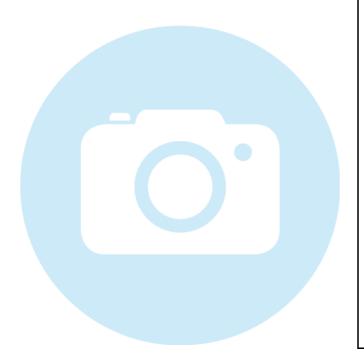


### 5M-S50+55CM-635-10-H10-A8-C-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



#### **FEATURES**

Compact Laser spot with elliptical Gaussian beam profile.

■ Spot diameter: 0.008 x 0.021 mm

Wavelength: 635 nmWorking 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 5M-S50+55CM-635-10-H10-A8-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics  $\underline{type\ C}$  for control of the laser output power. The output power can be controlled using the  $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$  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-S50+55CM-635-10-H10-A8-C-6

Series 5M



Order Code	5M-S50+55CM-635-10-H10-A8-C-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	635 +10/-10 nm	
Laser output power	10 mW	
Laser safety class	3B	
Focussing range	35-70 mm	
Working distance	46 mm	
Spot height	0.021 mm	
Spot width	0.008 mm	
Rayleigh range	0.166 mm	
Diameter laser module	25/28 mm	
Module length	73.1 mm	
Installation length	149.1 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 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	22 kOhm	22 kOhm
Max. modulation frequency	100 kHz	100 kHz
Modulation delay ON/OFF	1/0.5 μs	2/1 μs
Rise / Fall time	3/2 μs	3/2 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 and

Extended 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

This is a printout of the page <a href="https://sukhamburg.com/products/details/5M-S50">https://sukhamburg.com/products/details/5M-S50</a> 55CM-635-10-H10-A8-C-6 from 4/24/2024

### **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

## **LEGAL NOTICE**

#### Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [more]