

## 13MM-M100-4+55CM-450-33-O06-T15-PS-7

Laser Macro Focus Generator with approx. circular beam profile



#### **FEATURES**

Laser spot with approx. circular beam profile and extended depth of focus.

Spot diameter: 0.022 x 0.019 mm

Wavelength: 450 nmWorking distance: 84 mmDepth of focus: 1.25 mm

- Macro Focus Generator for extended depth of focus
- With RS232 interface





## **DESCRIPTION**

The laser diode beam source type 13MM-M100-4+55CM-450-33-O06-T15-PS-7 produces a circular laser spot with extended depth of focus. The beam profile is approx. Gaussian. More precisely it has an elliptical intensity distribution clipped by a circular aperture.

The laser has integrated electronics <u>type PS</u> with micro-controller for control of the laser output power and serial interface (RS232). 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**

13MM-M100-4+55CM-450-33-O06-T15-PS-7

Series	13MM	
Order Code	13MM-M100-4+55CM-450-33-O06-T15-PS-7	
Line profile	Gaussian Intensity Distribution	
Wavelength	450 +10/-10 nm	
Laser output power	33 mW	
Laser safety class	3В	
Focussing range	80-110 mm	
Working distance	84 mm	
Spot height	0.019 mm	
Spot width	0.022 mm	
Depth of focus	1.25 mm	
Diameter laser module	25/28 mm	
Module length	84.3 mm	
Installation length	198.3 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5 A	
Working temperature	15 - 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	0.6/0.2 μs
Rise / Fall time	200000/200000 μs	0.2/0.2 μs
nterface RS232		
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# **ACCESSORIES**

**50HD-15** Hex key WS 1.5

**9D-12** Screwdriver WS 1.2

**13MK-25-36-10-F** Mounting Console with flat base plate



**13MK-25-36-10-M** Mounting Console with base plate with dovetail

profile

**PS051007E** Power Supply 5 V for laser modules with RS232

interface

## **RELATED PRODUCTS**

LASER MODULES 

Micro Focus Generator

SERIES 13M • Elliptical Gaussian beam profile

LASER MODULES

• Macro Focus Generator

SERIES LNC-13MM
• Circular beam profile

Extended depth of focus

Low noise

LASER MODULES • Laser Macro Focus Generator

SERIES 13MMC • Rotationally symmetric beam profile

Extended depth of focus

LASER MODULES • Compact Laser Macro Focus Generator

SERIES 5MM • Circular beam profile and

Extended depth of focus

This is a printout of the page <a href="https://sukhamburg.com/products/details/13MM-M100-4">https://sukhamburg.com/products/details/13MM-M100-4</a> 55CM-450-33-006-T15-PS-7 from 5/3/2024

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