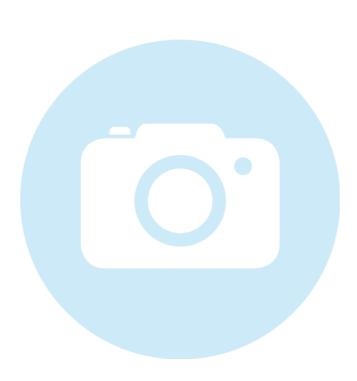
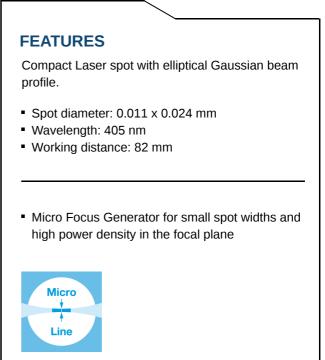
#### 5M-S88+55CM-405-14-Y07-A7.5-C-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile





#### DESCRIPTION

The laser diode beam source type 5M-S88+55CM-405-14-Y07-A7.5-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type C</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-S88+55CM-405-14-Y07-A7.5-C-6

Series

5M



### **DATA SHEET**

		5M-S88+55CM-405-14-Y07-A7.5-C-6	
Line profile	Gaussian Intensity Distribution		
Wavelength	405 +5/-5 nm		
Laser output power	14 mW		
Laser safety class	3В		
Focussing range	70-125 mm		
Working distance	82 mm		
Spot height	t <b>height</b> 0.024 mm		
ot width 0.011 mm			
Rayleigh range	0.46 mm		
Diameter laser module	25/28 mm		
Module length	73.1 mm		
Installation length	185.1 mm		
Cable length 1.5 m			
Connector type	Lumberg SV50 IEC 61076-2-106		
Supply voltage	5 ± 0.2 V		
Max. current consumption	0.5A		
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 $\pm$ 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-S88\_55CM-405-14-Y07-A7\_5-C-6</u> from 4/25/2024

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