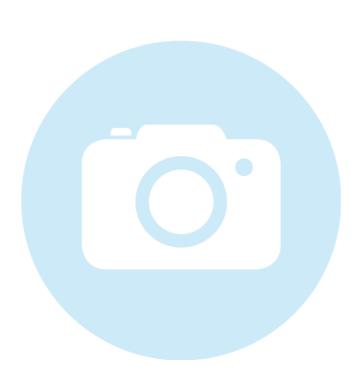
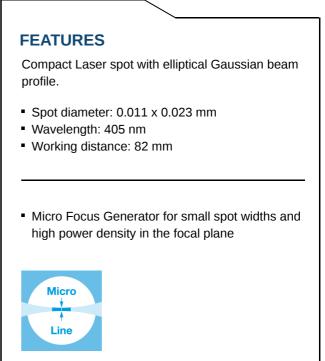
5M-S88+55CM-405-88-X15-A7.5-P-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile





DESCRIPTION

The laser diode beam source type 5M-S88+55CM-405-88-X15-A7.5-P-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type P</u> with micro-controller 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-405-88-X15-A7.5-P-6

Series

5M



DATA SHEET

Line profile Wavelength Laser output power Laser safety class	Gaussian Inter	nsity Distribution 405 +5/-5 nm 88 mW
Laser output power		
· · · ·		88 mW
Laser safety class		
		3B
Focussing range		70-125 mm
Working distance		82 mm
Spot height		0.023 mm
Spot width		0.011 mm
Rayleigh range		0.437 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 II	EC 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	0.01 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 µs	0.5/0.2 μs
Rise / Fall time	40000/40000 μs	0.5/0.5 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



DATA SHEET

LASER MODULES SERIES 5MM	 Compact Laser Macro Focus Generator 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 <u>https://sukhamburg.com/products/details/5M-S88_55CM-405-88-X15-A7_5-P-6</u> from 4/23/2024

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