5MM-S325-0.8+25CM-640-9-H22-A4.5-S-6

Compact Laser Macro Focus Generator with approx. circular beam profile

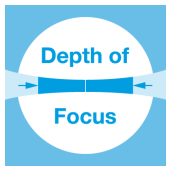


FEATURES

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

- Spot diameter: 0.442 x 0.426 mm
- Wavelength: 640 nm
- Working distance: 317 mm
- Depth of focus: 471 mm

- Macro Focus Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5MM-S325-0.8+25CM-640-9-H22-A4.5-S-6 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 type S for control of the laser output power. The output power can be controlled using the 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

5MM-S325-0.8+25CM-640-9-H22-A4.5-S-6

Series		5MM
Order Code		5MM-S325-0.8+25CM-640-9-H22-A4.5-S-6
Line profile		Gaussian Intensity Distribution
Wavelength		640 +5/-5 nm
Laser output power		9 mW
Laser safety class		3B
Focussing range		260-430 mm
Working distance		317 mm
Spot height		0.426 mm
Spot width		0.442 mm
Depth of focus		471 mm
Diameter laser module		12 mm
Module length		65.4 mm
Installation length		412.4 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 ± 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
PS051003E	Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 5M	▪ **Compact** Laser Micro Focus Generator ▪ Elliptical Gaussian beam profile
LASER MODULES SERIES 13MMC	▪ Laser Macro Focus Generator ▪ **Rotationally symmetric** beam profile ▪ Extended depth of focus
LASER MODULES SERIES 13MM	▪ Macro Focus Generator ▪ **Circular** beam profile ▪ Extended depth of focus

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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

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