5M-S150+55CM-520-56-O11-A7.5-PS-7

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile

FEATURES

Compact Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.022 x 0.072 mm
- Wavelength: 520 nm
- Working distance: 147 mm

- Micro Focus Generator for small spot widths and high power density in the focal plane
- With RS232 interface



DESCRIPTION

The laser diode beam source type 5M-S150+55CM-520-56-O11-A7.5-PS-7 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

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

5M-S150+55CM-520-56-O11-A7.5-PS-7

Series		5M
Order Code		5M-S150+55CM-520-56-O11-A7.5-PS-7
Line profile		Gaussian Intensity Distribution
Wavelength		520 +10/-5 nm
Laser output power		56 mW
Laser safety class		3B
Focussing range		125-260 mm
Working distance		147 mm
Spot height		0.072 mm
Spot width		0.022 mm
Rayleigh range		1.47 mm
Diameter laser module		25/28 mm
Module length		73.1 mm
Installation length		250.1 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
Interface		RS232

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

RELATED PRODUCTS

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

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