5MC-A18+29CM-658-24-B09-M12-S-6

Compact Laser Micro Focus Generator with rotationally symmetric beam profile

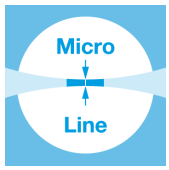


FEATURES

Compact laser spot with rotationally symmetric, Gaussian beam profile.

- Spot diameter: 0.005 x 0.005 mm
- Wavelength: 658 nm
- Working distance: 16.5 mm

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



DESCRIPTION

The laser diode beam source type 5MC-A18+29CM-658-24-B09-M12-S-6 produces a rotationally symmetric circular laser spot with Gaussian intensity distribution.

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

5MC-A18+29CM-658-24-B09-M12-S-6

Series	5MC

Order Code	5MC-A18+29CM-658-24-B09-M12-S-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	658 +5/-5 nm	
Laser output power	24 mW	
Laser safety class	3B	
Focussing range	15-35 mm	
Working distance	16.5 mm	
Spot height	0.005 mm	
Spot width	0.005 mm	
Rayleigh range	0.067 mm	
Diameter laser module	12 mm	
Module length	68.5 mm	
Installation length	115 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 13MC	▪ Micro Focus Generator ▪ **Rotationally symmetric**, Gaussian beam profile
LASER MODULES SERIES 13M	▪ Micro Focus Generator ▪ Elliptical Gaussian beam profile

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