5LMM8-S325-1+55CM-520-48-O11-A7.5-PS-7

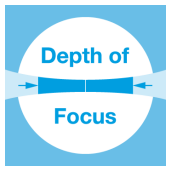
Macro Line Generator with a fan angle

FEATURES

Laser line with a fan angle, Gaussian intensity distribution and extended depth of focus.

- Line length: 47.5 mm
- Line width: 255 µm
- Wavelength: 520 nm
- Working distance: 308 mm
- Depth of focus: 245 mm

- Macro Line Generator for extended depth of focus
- With RS232 interface



DESCRIPTION

The laser diode beam source type 5LMM8-S325-1+55CM-520-48-O11-A7.5-PS-7 has a fan angle of 8° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 18 %. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

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 beam parameters like line length and line width increase proportionally to the working distance. A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

5LMM8-S325-1+55CM-520-48-O11-A7.5-PS-7

Series		5LMM
Order Code		5LMM8-S325-1+55CM-520-48-O11-A7.5-PS-7
Line profile		Gaussian Intensity Distribution
Line type		Laser Macro Line
Wavelength		520 +10/-5 nm
Laser output power		48 mW
Laser safety class		3B
Fan angle α		8 deg
Focussing range		250-450 mm
Working distance		308 mm
Line length		47.5 mm
Line width		0.255 mm
Depth of focus		245 mm
Edge intensity		18 %
Diameter laser module		25/28 mm
Module length		78.5 mm
Installation length		416.5 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

50HD-15	Hex key WS 1.5
9D-12	Screwdriver WS 1.2
13MK-25-36-10-F	Mounting Console with flat base plate
13MK-25-36-10-M	Mounting Console with base plate with dovetail profile
PS051007E	Power Supply 5 V for laser modules with RS232 interface

RELATED PRODUCTS

LASER MODULES SERIES 5LM	▪ Micro Line, **small** fan angle ▪ Gaussian intensity distribution
LASER MODULES SERIES LNC-5LMM	▪ Macro Line, **small** fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus ▪ Low Noise
LASER MODULES SERIES 13LRM	▪ Macro Line Generator, fan angle ▪ Uniform intensity distribution ▪ Extended depth of focus
LASER MODULES SERIES 13LNM	▪ Micro Line Generator, **small** fan angle ▪ Uniform intensity distribution ▪ Extended depth of focus
LASER MODULES SERIES 5LPM+25CM	▪ **Compact** Macro Line, **large** fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus
LASER MODULES SERIES 5LMM+25CM	▪ **Compact** Micro Line, **small** fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus

LASER MODULES
SERIES 5LPM

- Macro Line, **large** fan angle
- Gaussian intensity distribution
- Extended depth of focus

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