5LPM40-S325-1+55CM-405-60-X15-A7.5-P-6

Macro Line Generator with a large fan angle

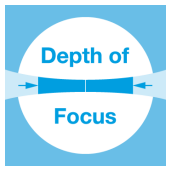


FEATURES

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

- Line length: 228 mm
- Line width: 191 µm
- Wavelength: 405 nm
- Working distance: 312 mm
- Depth of focus: 191 mm

- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LPM40-S325-1+55CM-405-60-X15-A7.5-P-6 has a fan angle of 40° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 10 %. 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 P with micro-controller 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 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

5LPM40-S325-1+55CM-405-60-X15-A7.5-P-6

Series		5LPM
Order Code		5LPM40-S325-1+55CM-405-60-X15-A7.5-P-6
Line profile		Gaussian Intensity Distribution
Line type		Laser Macro Line
Wavelength		405 +5/-5 nm
Laser output power		60 mW
Laser safety class		3B
Fan angle α		40 deg
Focussing range		255-450 mm
Working distance		312 mm
Line length		228 mm
Line width		0.191 mm
Depth of focus		191 mm
Edge intensity		10 %
Diameter laser module		25/28 mm
Module length		95.5 mm
Installation length		437.5 mm
Cable length		1.5 m
Connector type		Lumberg SV50 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	0.01 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

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
PS051003E	Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 5LPM	▪ Macro Line, **large** fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus
LASER MODULES SERIES LNC-5LPM	▪ Macro Line, **large** 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 5LMM+25CM	▪ **Compact** Micro Line, **small** fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus
LASER MODULES SERIES 5LPM+25CM	▪ **Compact** Macro Line, **large** fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus

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