

5LPM40-S325-1+25CM-405-10-Y07-A7.5-B-4

Compact Macro Line Generator with a large fan angle



FEATURES

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

- Line length: 228 mm
- Line width: 192 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+25CM-405-10-Y07-A7.5-B-4 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 9 %. 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 B](#) for control of the laser output power. The output power can be controlled using the [modulation input port \(TTL\)](#) 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+25CM-405-10-Y07-A7.5-B-4

Series	5LPM
Order Code	5LPM40-S325-1+25CM-405-10-Y07-A7.5-B-4
Line profile	Gaussian Intensity Distribution
Line type	Laser Macro Line
Wavelength	405 +5/-5 nm
Laser output power	10 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	0.192 mm
Depth of focus	191 mm
Edge intensity	9 %
Diameter laser module	12 mm
Module length	83.1 mm
Installation length	425.1 mm
Cable length	1.5 m
Connector type	Lumberg SV40 IEC 61076-2-106
Supply voltage	12 \pm 0.5 V
Max. current consumption	0.16 A
Working temperature	0 - 40 °C
Modulation inputs	TTL
Input resistance	110 kOhm
Max. modulation frequency	0.2 kHz
Modulation delay ON/OFF	500/500 μ s
Rise / Fall time	10/20 μ s

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
13MK-25-36-10-F	Mounting Console with flat base plate
13MK-25-36-10-M	Mounting Console with base plate with dovetail profile
PS120516E	Power Supply 12 V

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LASER MODULES SERIES 13LNM	<ul style="list-style-type: none">▪ Micro Line Generator, small fan angle▪ Uniform intensity distribution▪ Extended depth of focus
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LASER MODULES SERIES 5LPM+25CM	<ul style="list-style-type: none">▪ Compact Macro Line, large fan angle▪ Gaussian intensity distribution▪ Extended depth of focus

LASER MODULES SERIES 5LMM

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

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