

5LPM40-S150-1+55CM-685-24-H13-A8-CS-7

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: 101 mm
Line width: 148 μm
Wavelength: 685 nm
Working distance: 142 mm
Depth of focus: 68.7 mm

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





DESCRIPTION

The laser diode beam source type 5LPM40-S150-1+55CM-685-24-H13-A8-CS-7 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 14 %. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

The laser has integrated electronics <u>type CS</u> for control of the laser output power and serial interface (RS232). The output power can be controlled using the <u>modulation input ports (TTL and analog)</u> 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-S150-1+55CM-685-24-H13-A8-CS-7

| Series | eries 5LPM | |
|---------------------------|---------------------------------------|------------|
| Order Code | 5LPM40-S150-1+55CM-685-24-H13-A8-CS-7 | |
| Line profile | Gaussian Intensity Distribution | |
| Line type | Laser Macro Line | |
| Wavelength | 685 +10/-10 nm | |
| Laser output power | 24 mW | |
| Laser safety class | 3В | |
| Fan angle α | 40 deg | |
| Focussing range | 120-255 mm | |
| Working distance | 142 mm | |
| Line length | 101 mm | |
| Line width | 0.148 mm | |
| Depth of focus | 68.7 mm | |
| Edge intensity | 14 % | |
| Diameter laser module | 25/28 mm | |
| Module length | 95.5 mm | |
| Installation length | 267.5 mm | |
| Cable length | 1.5 m | |
| Connector type | Lumberg SV70 IEC 61076-2-106 | |
| Supply voltage | 5 ± 0.2 V | |
| Max. current consumption | 0.25 A | |
| Working temperature | 0 - 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 | 0.5/0.2 μs |
| Rise / Fall time | 200000/200000 μs | 0.8/0.4 μs |
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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 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



This is a printout of the page https://sukhamburg.com/products/details/5LPM40-S150-1_55CM-685-24-H13-A8-CS-7 from 4/30/2024

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