

5LP80-S000+25CM-640-26-H22-A8-S-6

Compact Micro Line Generator with a large fan angle



FEATURES

Compact laser line with a large fan angle and Gaussian intensity distribution.

- Line length: 1800 mm
- Line width: 383 μm
- Wavelength: 640 nm
- Working distance: 1000 mm

- Micro Line Generator for small laser line widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 5LP80-S000+25CM-640-26-H22-A8-S-6 has a fan angle of 84°.

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 Gaussian.

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 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

5LP80-S000+25CM-640-26-H22-A8-S-6

| | | |
|---------------------------|-----------------------------------|-------------------|
| Series | 5LP | |
| Order Code | 5LP80-S000+25CM-640-26-H22-A8-S-6 | |
| Line profile | Gaussian Intensity Distribution | |
| Line type | Laser Micro Line | |
| Wavelength | 640 +5/-5 nm | |
| Laser output power | 26 mW | |
| Laser safety class | 3B | |
| Fan angle α | 84 deg | |
| Focussing range | 430-inf mm | |
| Working distance | 1000 mm | |
| Line length | 1800 mm | |
| Line width | 0.383 mm | |
| Rayleigh range | 360 mm | |
| Edge intensity | 14 % | |
| Diameter laser module | 12 mm | |
| Module length | 73.7 mm | |
| Installation length | 1103.7 mm | |
| Cable length | 1.5 m | |
| Connector type | Lumberg SV50 IEC 61076-2-106 | |
| Supply voltage | 5 \pm 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 μ s | 0.05/0.05 μ s |
| Rise / Fall time | 5/4 μ s | 0.1/0.02 μ s |

ACCESSORIES

60EX-4

Eccentric key with a stroke of \pm 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 |
| PS051003E | Power Supply 5 V |

RELATED PRODUCTS

LASER MODULES SERIES 5LPM+25CM

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

LASER MODULES SERIES LNC-5LP

- Micro Line, **large** fan angle
- Gaussian intensity distribution
- Low noise

LASER MODULES SERIES 13LR

- Micro Line Generator, fan angle
- Uniform intensity distribution

LASER MODULES SERIES 13LN

- Micro Line, **small** fan angle
- Uniform intensity distribution
- Thin lines

LASER MODULES SERIES 5LM+25CM

- **Compact** Micro Line, **small** fan angle
- Gaussian intensity distribution

LASER MODULES SERIES 5LP

- Micro Line, **large** fan angle
- Gaussian intensity distribution

LASER MODULES SERIES 5LM

- Micro Line, **small** fan angle
- Gaussian intensity distribution

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