

5LPM60-S000-1+55CM-488-33-O09-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: 1200 mm
- Line width: 724 μm
- Wavelength: 488 nm
- Working distance: 1000 mm
- Depth of focus: 1500 mm

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- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LPM60-S000-1+55CM-488-33-O09-A7.5-P-6 has a fan angle of 62° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 19 %. 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

5LPM60-S000-1+55CM-488-33-O09-A7.5-P-6

| | | |
|---------------------------|--|-----------------|
| Series | 5LPM | |
| Order Code | 5LPM60-S000-1+55CM-488-33-O09-A7.5-P-6 | |
| Line profile | Gaussian Intensity Distribution | |
| Line type | Laser Macro Line | |
| Wavelength | 488 +2/-2 nm | |
| Laser output power | 33 mW | |
| Laser safety class | 3B | |
| Fan angle α | 62 deg | |
| Focussing range | 450-inf mm | |
| Working distance | 1000 mm | |
| Line length | 1200 mm | |
| Line width | 0.724 mm | |
| Depth of focus | 1500 mm | |
| Edge intensity | 19 % | |
| Diameter laser module | 25/28 mm | |
| Module length | 91.5 mm | |
| Installation length | 1121.5 mm | |
| Cable length | 1.5 m | |
| Connector type | Lumberg SV50 IEC 61076-2-106 | |
| Supply voltage | 5 \pm 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 μ s | 0.5/0.2 μ s |
| Rise / Fall time | 40000/40000 μ s | 0.5/0.5 μ s |

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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