# 5LPM60-S325-1+25CM-405-10-Y07-A7.5-B-4

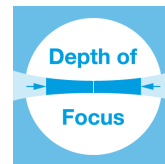Compact Macro Line Generator with a large fan angle



### FEATURES

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

- Line length: 375 mm
- Line width: 192 µm
- Wavelength: 405 nm
- Working distance: 312 mm
- Depth of focus: 191 mm

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- Macro Line Generator for extended depth of focus



# DESCRIPTION

The laser diode beam source type 5LPM60-S325-1+25CM-405-10-Y07-A7.5-B-4 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 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

5LPM60-S325-1+25CM-405-10-Y07-A7.5-B-4

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|---|---|
| **Series** | 5LPM |
| **Order Code** | 5LPM60-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** | 62 deg |
| **Focussing range** | 255-450 mm |
| **Working distance** | 312 mm |
| **Line length** | 375 mm |
| **Line width** | 0.192 mm |
| **Depth of focus** | 191 mm |
| **Edge intensity** | 9 % |
| **Diameter laser module** | 12 mm |
| **Module length** | 79.1 mm |
| **Installation length** | 421.1 mm |
| **Cable length** | 1.5 m |
| **Connector type** | Lumberg SV40 IEC 61076-2-106 |
| **Supply voltage** | 12 ± 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 µs |
| **Rise / Fall time** | 10/20 µs |

## 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 |

## 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

**LASER MODULES**
**SERIES 5LMM**

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

This is a printout of the page https://sukhamburg.com/products/details/5LPM60-S325-1_25CM-405-10-Y07-A7_5-B-4 from 5/3/2024

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