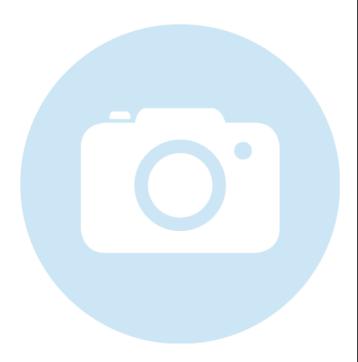


# 5LPM60-S150-1+55CM-445-61-G02-A7.5-PS-7

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: 168 mm
Line width: 99 μm
Wavelength: 445 nm
Working distance: 142 mm
Depth of focus: 44.6 mm

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





# **DESCRIPTION**

The laser diode beam source type 5LPM60-S150-1+55CM-445-61-G02-A7.5-PS-7 has a fan angle of  $62^{\circ}$  and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 2 %. 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 PS</u> with micro-controller 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**

5LPM60-S150-1+55CM-445-61-G02-A7.5-PS-7

eries 5LPM		
Order Code	5LPM60-S150-1+55CM-445-61-G02-A7.5-PS-7	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	445 +15/-5 nm	
Laser output power	61 mW	
Laser safety class	3В	
Fan angle α	62 deg	
Focussing range	120-255 mm	
Working distance	142 mm	
Line length	168 mm	
Line width	0.099 mm	
Depth of focus	44.6 mm	
Edge intensity	2 %	
Diameter laser module	25/28 mm	
Module length	91.5 mm	
Installation length	263.5 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5 A	
Working temperature	15 - 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	0.6/0.2 μs
Rise / Fall time	200000/200000 μs	0.2/0.2 μs



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

• Macro Line, large fan angle

• Gaussian intensity distribution

Extended depth of focus

LASER MODULES
■ Macro Line, large fan angle
SERIES LNC-5LPM
■ Gaussian intensity distribution

Extended depth of focus

Low noise

LASER MODULES

• Macro Line Generator, fan angle

• Uniform intensity distribution

Extended depth of focus

LASER MODULES • Micro Line Generator, small fan angle

SERIES 13LNM • Uniform intensity distribution

Extended depth of focus

LASER MODULES • Compact Micro Line, small fan angle

Gaussian intensity distribution

Extended depth of focus

LASER MODULES • Compact Macro Line, large fan angle

SERIES 5LPM+25CM • Gaussian intensity distribution

Extended depth of focus

**SERIES 5LMM+25CM** 



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