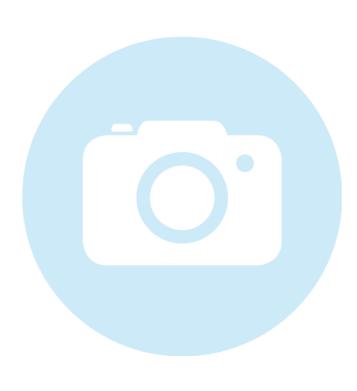
### 5LPM60-S150-1+55CM-520-48-O11-A7.5-P-6

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: 168 mm
- Line width: 118 µm
- Wavelength: 520 nm
- Working distance: 142 mm
- Depth of focus: 52.1 mm
- Macro Line Generator for extended depth of focus



### DESCRIPTION

The laser diode beam source type 5LPM60-S150-1+55CM-520-48-O11-A7.5-P-6 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 18 %. 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 P</u> with micro-controller for control of the laser output power. 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-520-48-O11-A7.5-P-6

Series		5LPM
Order Code	5LPM60-S150-1+55CM-520-48-O11-A7.5-P-6	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	520 +10/-5 nm	
Laser output power	48 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	0.118 mm	
Depth of focus	52.1 mm	
dge intensity 18 %		
Diameter laser module	25/28 mm	
Module length	91.5 mm	
Installation length	263.5 mm	
Cable length		1.5 m
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5A	
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 µs	0.5/0.2 μs
Rise / Fall time	40000/40000 μs	0.5/0.5 μs

# ACCESSORIES

50HD-15

Hex key WS 1.5



# **DATA SHEET**

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**

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LASER MODULES SERIES 5LPM	<ul> <li>Macro Line, large fan angle</li> <li>Gaussian intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES LNC-5LPM	<ul> <li>Macro Line, large fan angle</li> <li>Gaussian intensity distribution</li> <li>Extended depth of focus</li> <li>Low noise</li> </ul>
LASER MODULES SERIES 13LRM	<ul> <li>Macro Line Generator, fan angle</li> <li>Uniform intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 13LNM	<ul> <li>Micro Line Generator, small fan angle</li> <li>Uniform intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 5LMM+25CM	<ul> <li>Compact Micro Line, small fan angle</li> <li>Gaussian intensity distribution</li> <li>Extended depth of focus</li> </ul>

- LASER MODULES SERIES 5LPM+25CM
- Compact Macro Line, large fan angle
- Gaussian intensity distribution
- Extended depth of focus



# **DATA SHEET**

This is a printout of the page <u>https://sukhamburg.com/products/details/5LPM60-S150-1\_55CM-520-48-O11-A7\_5-P-6</u> from 4/29/2024

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