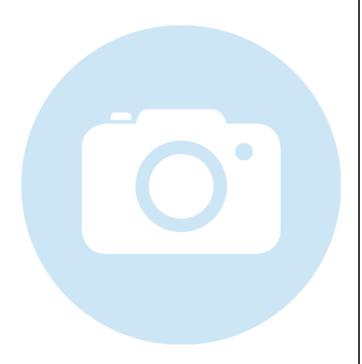


5LMM15-S150-1+25CM-639-13-H18-A8-S-6

Compact Macro Line Generator with a fan angle



FEATURES

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

Line length: 39.7 mm
Line width: 140 µm
Wavelength: 639 nm
Working distance: 138 mm
Depth of focus: 64.1 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LMM15-S150-1+25CM-639-13-H18-A8-S-6 has a fan angle of 15° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 40 %. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

The laser has integrated electronics $\underline{type\ S}$ for control of the laser output power. The output power can be controlled using the $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$ 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

5LMM15-S150-1+25CM-639-13-H18-A8-S-6

eries 5LMM			
Order Code	5LMM15-S150-1+25CM-639-13-H18-A8-S-6		
Line profile	Gaussian Intensity Distribution		
Line type	Laser Macro Line		
Wavelength	639 +10/-10 nm		
Laser output power	13 mW		
Laser safety class	3B		
Fan angle α	15 deg		
Focussing range	115-250 mm		
Working distance	138 mm		
Line length	39.7 mm		
Line width	0.14 mm		
Depth of focus	64.1 mm		
Edge intensity	40 %		
Diameter laser module	12 mm		
Module length	66.1 mm		
Installation length	234.1 mm		
Cable length	1.5 m		
Connector type	Lumberg SV50 IE	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 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 μs	0.05/0.05 μs	
Rise / Fall time	5/4 μs	0.1/0.02 μs	

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

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES • Compact Micro Line, small fan angle

SERIES 5LMM+25CM ■ Gaussian intensity distribution

Extended depth of focus

LASER MODULES

• Macro Line, small fan angle

SERIES LNC-5LMM
• 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 Macro Line, large fan angle

SERIES 5LPM+25CM • Gaussian intensity distribution

Extended depth of focus

LASER MODULES • Macro Line, small fan angle

Gaussian intensity distribution

Extended depth of focus

LASER MODULES • Macro Line, large fan angle

SERIES 5LPM • Gaussian intensity distribution

Extended depth of focus

SERIES 5LMM



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