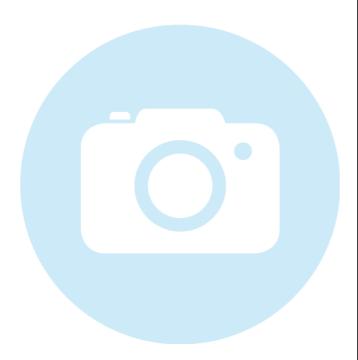


5LPM80-S000-1+55CM-830-23-H19-A8-C-6

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 width: 1200 µm
Wavelength: 830 nm
Working distance: 1000 mm
Depth of focus: 1500 mm

Line length: 1800 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LPM80-S000-1+55CM-830-23-H19-A8-C-6 has a fan angle of 84° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 17 %. 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 C</u> 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

5LPM80-S000-1+55CM-830-23-H19-A8-C-6

Series	5LPM		
Order Code	5LPM80-S000-1+55CM-830-23-H19-A8-C-6		
Line profile	Gaussian Intensity Distribution		
Line type	Laser Macro Line		
Wavelength	830 +10/-10 nm		
Laser output power	23 mW		
Laser safety class	3B		
Fan angle α	84 deg		
Focussing range	450-inf mm		
Working distance	1000 mm		
Line length	1800 mm		
Line width	1.2 mm		
Depth of focus	1500 mm		
Edge intensity	17 %		
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 ± 0.2 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	100 kHz	100 kHz	
Modulation delay ON/OFF	1/0.5 µs	2/1 μs	
Rise / Fall time	3/2 μs	3/2 μs	

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
 Coussian intensity distribution

Gaussian intensity distributionExtended depth of focus

LASER MODULES SERIES LNC-5LPM

Macro Line, large fan angleGaussian intensity distribution

Extended depth of focus

Low noise

LASER MODULES
SERIES 13LRM

Macro Line Generator, fan angleUniform 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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