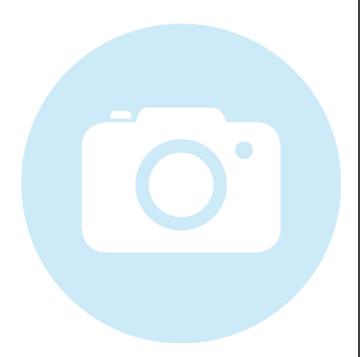


## 5LPM80-S150-1+55CM-635-7-H10-A8-C-6

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 length: 250 mm
Line width: 139 μm
Wavelength: 635 nm
Working distance: 142 mm
Depth of focus: 63.7 mm

Macro Line Generator for extended depth of focus



#### DESCRIPTION

The laser diode beam source type 5LPM80-S150-1+55CM-635-7-H10-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 31 %. 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-S150-1+55CM-635-7-H10-A8-C-6

Laser safety classFan angle α8Focussing range120-25Working distance14	oution o Line 10 nm 7 mW 3B
Line typeLaser MacroWavelength635 +10/-1Laser output power	2 Line 10 nm 7 mW 3B 44 deg 55 mm 20 mm
Wavelength635 +10/-3Laser output power2Laser safety class8Fan angle α8Focussing range120-25Working distance14	10 nm 7 mW 3B 4 deg 5 mm 2 mm
Laser output power   Laser safety class   Fan angle α 8   Focussing range 120-25   Working distance 14	7 mW 3B 44 deg 55 mm -2 mm
Laser safety class  Fan angle α  Focussing range  120-25  Working distance	3B 44 deg 55 mm 22 mm
Fan angle α 8  Focussing range 120-25  Working distance 14	4 deg 55 mm 2 mm 60 mm
Focussing range 120-25 Working distance 14	55 mm -2 mm -60 mm
Working distance 14	2 mm 0 mm
·	0 mm
Line length 25	
	9 mm
Line width 0.13	
Depth of focus 63.	7 mm
Edge intensity	31 %
Diameter laser module 25/2	8 mm
Module length 91.	.5 mm
Installation length 263.	.5 mm
Cable length	1.5 m
Connector type Lumberg SV50 IEC 61076-2	2-106
Supply voltage 5 ±	0.2 V
Max. current consumption	).25 A
Working temperature 0 -	40 °C
Modulation inputs Analog	TTL
Input resistance 22 kOhm 22 k	kOhm
Max. modulation frequency 100 kHz 10	0 kHz
Modulation delay ON/OFF1/0.5 μs2	2/1 μs
Rise / Fall time $3/2 \mu s$	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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### CONTACT

For more information please contact: Schäfter + Kirchhoff GmbH Kieler Str. 212 22525 Hamburg Germany

Tel: +49 40 85 39 97-0 Fax: +49 40 85 39 97-79

info@sukhamburg.de www.sukhamburg.com

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