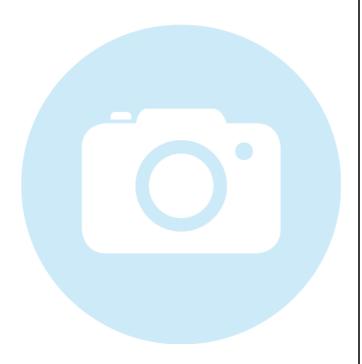


5LPM60-S150-1+25CM-785-59-Q06-A8-S-6

Compact Macro Line Generator with a large fan angle



FEATURES

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

Line length: 168 mm
Line width: 170 μm
Wavelength: 785 nm
Working distance: 142 mm
Depth of focus: 78.7 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LPM60-S150-1+25CM-785-59-Q06-A8-S-6 has a fan angle of 62° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 3 %. 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

5LPM60-S150-1+25CM-785-59-Q06-A8-S-6

Line profile Gaussian Intensity Distribution Line type Laser Macro Line Wavelength 785 +10/-10 m Laser output power 59 m Laser safety class 3 Fan angle α 62 de Focussing range 120-255 m Working distance 142 m Line length 168 m Line width 0.17 m Depth of focus 78.7 m Edge intensity 3 Diameter laser module 12 m Module length 79.1 m Installation length 251.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-10 Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature 0 - 40 m	Series 5LPM			
Line typeLaser Macro LinWavelength785 +10/-10 mLaser output power59 mLaser safety class3Fan angle α62 deFocussing range120-255 mWorking distance142 mLine length168 mLine width0.17 mDepth of focus78.7 mEdge intensity3Diameter laser module12 mModule length79.1 mInstallation length251.1 mCable length1.5Connector typeLumberg SV50 IEC 61076-2-10Supply voltage5 ± 0.25Max. current consumption0.25Working temperature0 - 40 m	Order Code 5LPN	5LPM60-S150-1+25CM-785-59-Q06-A8-S-6		
Wavelength 785 ±10/-10 m Laser output power 59 m Laser safety class 3 Fan angle α 62 de Focussing range 120-255 m Working distance 142 m Line length 168 m Line width 0.17 m Depth of focus 78.7 m Edge intensity 3 Diameter laser module 12 m Module length 79.1 m Installation length 251.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-10 Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature 0 - 40 m	Line profile	Gaussian Intensity Distribution		
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Fan angle α 62 de Focussing range 120-255 m Working distance 142 m Line length 168 m Line width 0.17 m Depth of focus 78.7 m Edge intensity 3 Diameter laser module 12 m Module length 79.1 m Installation length 251.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-10 Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature 0 - 40 m	Laser output power	59 mW		
Focussing range 120-255 m Working distance 142 m Line length 168 m Line width 0.17 m Depth of focus 78.7 m Edge intensity 3 Diameter laser module 12 m Module length 79.1 m Installation length 251.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-10 Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature 0 - 40 m	Laser safety class	3В		
Working distance 142 m Line length 168 m Line width 0.17 m Depth of focus 78.7 m Edge intensity 3 Diameter laser module 12 m Module length 79.1 m Installation length 251.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-10 Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature 0 - 40 c	Fan angle α	62 deg		
Line length168 mLine width0.17 mDepth of focus78.7 mEdge intensity3Diameter laser module12 mModule length79.1 mInstallation length251.1 mCable length1.5Connector typeLumberg SV50 IEC 61076-2-10Supply voltage5 ± 0.25Max. current consumption0.25Working temperature0 - 40 m	Focussing range	120-255 mm		
Line width 0.17 m Depth of focus 78.7 m Edge intensity 3 Diameter laser module 12 m Module length 79.1 m Installation length 251.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-10 Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature 0 - 40 c	Working distance	142 mm		
Depth of focus 78.7 m Edge intensity 3 Diameter laser module 12 m Module length 79.1 m Installation length 251.1 m Cable length 1.5 Connector type Lumberg SV50 IEC 61076-2-10 Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature 0 - 40°	Line length	168 mm		
Edge intensity3Diameter laser module $12 \mathrm{m}$ Module length $79.1 \mathrm{m}$ Installation length $251.1 \mathrm{m}$ Cable length $1.5 \mathrm{m}$ Connector typeLumberg SV50 IEC 61076-2-10Supply voltage $5 \pm 0.25 \mathrm{m}$ Max. current consumption $0.25 \mathrm{m}$ Working temperature $0 - 40 \mathrm{m}$	Line width	0.17 mm		
Diameter laser module $12 \mathrm{m}$ Module length $79.1 \mathrm{m}$ Installation length $251.1 \mathrm{m}$ Cable length $1.5 \mathrm{m}$ Connector typeLumberg SV50 IEC 61076-2-10Supply voltage $5 \pm 0.25 \mathrm{m}$ Max. current consumption $0.25 \mathrm{m}$ Working temperature $0 - 40 \mathrm{m}$	Depth of focus	78.7 mm		
Module length $79.1 \mathrm{m}$ Installation length $251.1 \mathrm{m}$ Cable length 1.5 Connector typeLumberg SV50 IEC 61076-2-10Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature $0 - 40^{\circ}$	Edge intensity	3 %		
Installation length $251.1 \mathrm{m}$ Cable length 1.5 Connector typeLumberg SV50 IEC 61076-2-10Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature $0 - 40^{\circ}$	Diameter laser module	12 mm		
Cable length1.5Connector typeLumberg SV50 IEC 61076-2-10Supply voltage 5 ± 0.25 Max. current consumption0.25Working temperature $0 - 40^{\circ}$	Module length	79.1 mm		
Connector typeLumberg SV50 IEC 61076-2-10Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature $0 - 40^{\circ}$	Installation length	251.1 mm		
Supply voltage 5 ± 0.25 Max. current consumption 0.25 Working temperature $0 - 40^{\circ}$	Cable length	1.5 m		
Max. current consumption 0.25 Working temperature 0 - 40 °	Connector type	Lumberg SV50 IEC 61076-2-106		
Working temperature 0 - 40 °	Supply voltage	5 ± 0.25 V		
	Max. current consumption	0.25 A		
Modulation inputs Analog T	Working temperature	0 - 40 °C		
	Modulation inputs	Analog	TTL	
Input resistance 22 kOhm 22 kOhm	Input resistance	22 kOhm	22 kOhm	
Max. modulation frequency50 kHz1000 kHz	Max. modulation frequency	50 kHz	1000 kHz	
Modulation delay ON/OFF 4/0.5 μs 0.05/0.05 μs	Modulation delay ON/OFF	4/0.5 μs	0.05/0.05 μs	
Rise / Fall time $5/4 \mu s$ $0.1/0.02 \mu$	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

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

Gaussian intensity distribution

Extended depth of focus

LASER MODULES SERIES LNC-5LPM Macro Line, large fan angle

Gaussian intensity distribution

Extended depth of focus

Low noise

LASER MODULES SERIES 13LRM Macro Line Generator, fan angle

Uniform 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



LASER MODULES
SERIES 5LMM

- Macro Line, small fan angle
- Gaussian intensity distribution
- Extended depth of focus

This is a printout of the page $\underline{\text{https://sukhamburg.com/products/details/5LPM60-S150-1}}$ 25CM-785-59-Q06-A8-S-6 from 4/17/2024

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