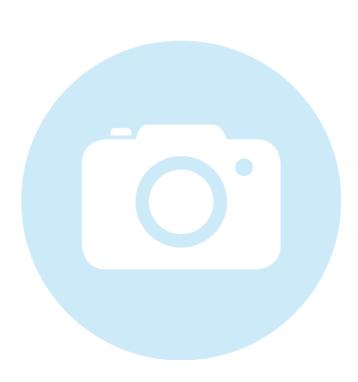
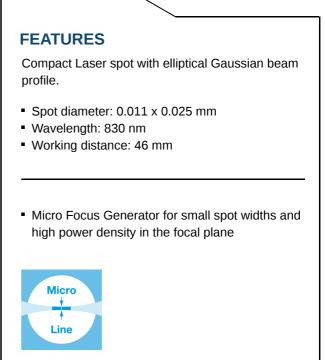
5M-S50+55CM-830-35-H19-A8-C-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile





DESCRIPTION

The laser diode beam source type 5M-S50+55CM-830-35-H19-A8-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

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 the spot diameter increases proportionally to the working distance. A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

5M-S50+55CM-830-35-H19-A8-C-6

Series

5M



DATA SHEET

Laser output power 35 Laser safety class 35-70 Focussing range 35-70 Working distance 46 Spot height 0.025 Spot width 0.011 Rayleigh range 0.217 Diameter laser module 25/28 Module length 73.1 Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.1	Order Code 5M-S50+55CM-830-	-35-H19-A8-C-6	
Laser output power 35 Laser safety class 35-70 Focussing range 35-70 Working distance 46 Spot height 0.025 Spot width 0.011 Rayleigh range 0.217 Diameter laser module 25/28 Module length 73.1 Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.1	Line profile Gaussian Inter	nsity Distribution	
Laser safety class Focussing range 35-70 Working distance 46 Spot height 0.025 Spot width 0.011 Rayleigh range 0.217 Diameter laser module 25/28 Module length 73.1 Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.1	Wavelength	830 +10/-10 nm	
Focussing range35-70Working distance46Spot height0.025Spot width0.011Rayleigh range0.217Diameter laser module25/28Module length73.1Installation length149.1Cable length1Connector typeLumberg SV50 IEC 61076-2-Supply voltage5 ± 0Max. current consumption0.3	Laser output power	35 mW	
Working distance46Spot height0.025Spot width0.011Rayleigh range0.217Diameter laser module25/28Module length73.1Installation length149.1Cable length1Connector typeLumberg SV50 IEC 61076-2-Supply voltage5 ± 0Max. current consumption0.3	Laser safety class	3B	
Spot height0.025Spot width0.011Rayleigh range0.217Diameter laser module25/28Module length73.1Installation length149.1Cable length1Connector typeLumberg SV50 IEC 61076-2Supply voltage5 ± 0Max. current consumption0.3	Focussing range	35-70 mm	
Spot width 0.011 Rayleigh range 0.217 Diameter laser module 25/28 Module length 73.1 Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0 Max. current consumption 0.3	Working distance	46 mm	
Rayleigh range0.217Diameter laser module25/28Module length73.1Installation length149.1Cable length1Connector typeLumberg SV50 IEC 61076-2Supply voltage5 ± 0Max. current consumption0.3	Spot height	0.025 mm	
Diameter laser module 25/28 Module length 73.1 Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.3	Spot width	0.011 mm	
Module length73.1Installation length149.1Cable length1Connector typeLumberg SV50 IEC 61076-2-Supply voltage5 ± 0Max. current consumption0.3	Rayleigh range	0.217 mm	
Installation length 149.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.3	Diameter laser module	25/28 mm	
Cable length 1 Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.3	Module length	73.1 mm	
Connector type Lumberg SV50 IEC 61076-2- Supply voltage 5 ± 0 Max. current consumption 0.3	Installation length	149.1 mm	
Supply voltage 5 ± 0 Max. current consumption 0.2	Cable length1.5 m		
Max. current consumption 0.2	Connector type Lumberg SV50 IE	Lumberg SV50 IEC 61076-2-106	
· · · · · · · · · · · · · · · · · · ·	Supply voltage5 ± 0.2 \		
	Max. current consumption	rent consumption 0.25 A	
Working temperature 0 - 4	0 - 40 °C		
Modulation inputs Analog	Modulation inputs Analog	TTL	
Input resistance22 kOhm22 kO	Input resistance 22 kOhm	22 kOhm	
Max. modulation frequency100 kHz100	Max. modulation frequency100 kHz	100 kHz	
Modulation delay ON/OFF1/0.5 μs2/	Modulation delay ON/OFF1/0.5 μs	2/1 µs	
Rise / Fall time 3/2 μs 3/	Rise / Fall time3/2 µs	3/2 μs	

ACCESSORIES

60EX-4	Eccentric key with a stroke of ± 0.5 mm.
60EX-4-L	Alternative eccentric key with long handle with a stroke of \pm 0.5 mm.
9D-12	Screwdriver WS 1.2

RELATED PRODUCTS





LASER MODULES SERIES 5MM	 Compact Laser Macro Focus Generator Circular beam profile and Extended depth of focus
LASER MODULES SERIES 13MC	 Micro Focus Generator Rotationally symmetric, Gaussian beam profile
LASER MODULES SERIES 5MC	 Compact Laser Micro Focus Generator Rotationally symmetric, Gaussian beam profile
LASER MODULES SERIES 13M	Micro Focus GeneratorElliptical Gaussian beam profile

This is a printout of the page <u>https://sukhamburg.com/products/details/5M-S50_55CM-830-35-H19-A8-C-6</u> from 5/2/2024

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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