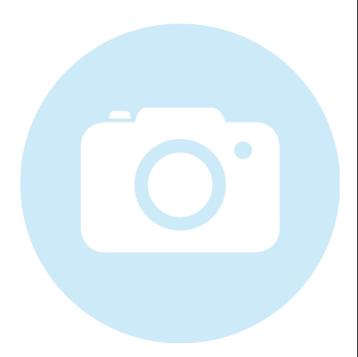


# 13LR40-S000+55CR-635-10-H10-T12-C-6

Laser Micro Line Generator with a fan angle



#### **FEATURES**

Laser line with a fan angle and approx. uniform intensity distribution.

Line length: 1400 mm
Line width: 569 μm
Wavelength: 635 nm
Working distance: 2000 mm

 Micro Line Generator for small laser line widths and high power density in the focal plane



#### DESCRIPTION

The laser diode beam source type 13LR40-S000+55CR-635-10-H10-T12-C-6 has a fan angle of 40° with a constant line width and approx. uniform intensity distribution along the laser line.

The fine-structure is a <u>chain of equidistant dots</u> with a spacing of approx. the line width. The line width is constant along the laser line. Across the laser line the intensity distribution is 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**

13LR40-S000+55CR-635-10-H10-T12-C-6

Series 13LR	
13LR40-S000+55CR-635-10-H10-T12-C-6	
Constant Intensity Distribution	
Laser Micro Line	
635 +10/-10 nm	
10 mW	
	3B
	40 deg
Focussing range 1300-inf mm	
Vorking distance 2000 mm	
ne length 1400 mm	
0.569 mm	
eigh range 802 mm	
intensity 80 %	
25/28 mm	
le length 59.9 mm	
length 2059.9 mm	
	1.5 m
Lumberg SV50 IEC 61076-2-106	
	5 ± 0.2 V
	0.25 A
	0 - 40 °C
Analog	TTL
22 kOhm	22 kOhm
100 kHz	100 kHz
1/0.5 µs	2/1 μs
3/2 μs	3/2 µs
	Constant Inte



### **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

Mounting Console with base plate with dovetail 13MK-25-36-10-M

profile

PS051003E Power Supply 5 V

#### **RELATED PRODUCTS**

LASER MODULES Macro Line Generator, fan angle **SERIES 13LRM** 

Uniform intensity distribution

Extended depth of focus

**LASER MODULES** Micro Line, small fan angle **SERIES 13LN** 

Uniform intensity distribution

Thin lines

LASER MODULES ■ Compact Micro Line, small fan angle

**SERIES 5LM+25CM** Gaussian intensity distribution

LASER MODULES ■ Compact Micro Line, large fan angle

**SERIES 5LP+25CM** Gaussian intensity distribution

LASER MODULES Micro Line, small fan angle

**SERIES 5LM** Gaussian intensity distribution

LASER MODULES Micro Line, large fan angle

**SERIES 5LP** Gaussian intensity distribution



This is a printout of the page <a href="https://sukhamburg.com/products/details/13LR40-S000\_55CR-635-10-H10-T12-C-6">https://sukhamburg.com/products/details/13LR40-S000\_55CR-635-10-H10-T12-C-6</a> from 4/19/2024

## 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

# **LEGAL NOTICE**

#### Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [more]