

Laser Diode Collimator series 29CM

Compact collimator with elliptical or circular Gaussian beam profile



FEATURES

Compact collimator with elliptical or circular Gaussian beam profile

- Collimated beam diameters (truncated below the 13.5%-level) max. 4.8 mm
- Wavelengths 405 - 852 nm
- Laser powers up to 93 mW

DESCRIPTION

Laser diode collimators transform the divergent light of a laser diode into a collimated beam, while maintaining the Gaussian intensity distribution and the elliptical or circular intensity profile. The collimators series 29CM have a larger collimating focal length than the collimators series [25CM](#) and have a slightly longer housing.

The laser has integrated electronics for control of the laser output power. The output power can be controlled using modulation input ports (TTL and analog, in case of electronics type B, TTL only) or manually using the potentiometer.

The collimation can be adjusted by using an eccentric key. Please note that this affects beam parameters like collimated beam diameter and beam divergence.

TECHNOTES

- [Electronic features \(9\)](#)
[Detailed electronic features for all electronics types](#)
- [Overview Electronics Types](#)
[Overview over all Electronics Types](#)
- [Electronics Type C](#)
[Electronic features for electronics type C](#)

- [Electronics Type P](#)
[Electronic features for electronics type P](#)
- [Electronics Type H](#)
[Electronic features for electronics type H](#)
- [Electronics Type HP](#)
[Electronic features for electronics type HP](#)
- [Electronics Type CS with RS232 interface](#)
[Electronic features for electronics type CS](#)
- [Electronics Type PS with RS232 interface](#)
[Electronic features for electronics type PS](#)
- [Electronics Type S](#)
[Electronic features for electronics type S](#)
- [Electronics Type B](#)
[Electronic features for electronics type B](#)
- [Laser Line Basics \(7\)](#)
[Line geometry, intensity distribution, definition of line length and working distance, definition of line width and machine vision applications.](#)
- [Laser Line geometries](#)
[Fan angle vs. semi-telecentric.](#)
- [Intensity distribution](#)
[Gaussian intensity distribution and uniform intensity distribution along the laser line](#)
- [Laser Line length and working distance](#)
[Line length and working distance definition](#)
- [Laser Line Width and Depth of Focus / Rayleigh Range](#)
[Line width definition](#)
- [Laser Speckle](#)
[When do they appear and how to prevent them](#)
- [Wavelengths of diode based lasers](#)
[What wavelengths are available for diode based laser modules?](#)
- [Cable orientation](#)
[Straight and angled cable exit](#)
- [Machine vision applications of Laser Lines \(1\)](#)
[Laser triangulation, laser light sectioning, particle measurement etc.](#)
- [Laser Diffraction Measurements](#)

ACCESSORIES

SWITCHBOXES FOR LASER MODULES

POWER SUPPLIES FOR LASER MODULES

60EX-4	Eccentric key with a stroke of ± 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
9D-16	Screwdriver WS 1.6

RELATED PRODUCTS

LASER DIODE COLLIMATOR SERIES 25CM

- **Compact** Collimator
- Elliptical Gaussian beam profile

LASER DIODE COLLIMATOR SERIES 55CM/55CR

- Collimator
- Elliptical Gaussian beam profile

LASER DIODE COLLIMATOR SERIES 90CM/90CR

- Collimator
- **Large elliptical** Gaussian beam profile

LASER DIODE COLLIMATOR SERIES 95CM/95CR

- Collimator
- **Large circular** Gaussian beam profile

This is a printout of the page https://sukhamburg.com/products/laserm_modules/series/29CM.html from 4/26/2024

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. [\[more\]](#)