

## 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 \(9\)](#)  
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  - [Laser Line length and working distance](#)  
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- [Machine vision applications of Laser Lines \(1\)](#)  
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  - [Laser Diffraction Measurements](#)

## ACCESSORIES

**SWITCHBOXES FOR  
LASER MODULES**

**POWER SUPPLIES FOR  
LASER MODULES**

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 $\pm 0.5$ 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/lasermODULES/series/29CM.html> from 6/1/2023

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