



# SL Series

*Product information*

Stabilized HeNe lasers as measuring standards for laser-optical measuring technology and as frequency standard

# Frequency and amplitude stabilized lasers

## SL SERIES

Our stabilized HeNe lasers with a wavelength of 632.8 nm are used as native, highstable reference measure. The stabilization technique provides high frequency and amplitude stabilities, low optical feedback and extremely rapid warm-up.

Optical modules may be directly, concentrically installed on its compactly designed head using the internally threaded mount provided. Fiberoptic couplers for coupling it to single- or multimode optical fibres are available.

### Options:

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- Certificate with absolute frequency measured in comparison with an iodine-stabilized HeNe laser
- Marking indicating the beam's plane of polarization
- Fiber coupler installation and alignment
- Extended or adjustable operating temperature range
- Installation and alignment of Faraday isolator in order to eliminate back reflections

### Ideal for

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- Light sources in laseroptical measuring technology
- Science/research
- Frequency standard
- OEM applications



Stabilized HeNe lasers

### Stabilized HeNe Laser model SL 02

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- compact design with a plug-in power supply
- available with one or two polarized longitudinal modes



$\pm 5 \cdot 10^{-9} / 1 \text{ h}$



$\geq 1.2 \text{ mW}$   
(1 mode),  
 $\geq 2.4 \text{ mW}$   
(2 modes)



50 mm

For customer-specific versions or integration  
in special measurement equipment,  
please contact us.

### Stabilized HeNe Laser model SL 03

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- amplitude or frequency stabilization as operating modes
- small diameter of laser tube



$< 0.3\% / 24 \text{ h}$



$\pm 2 \cdot 10^{-9} / 1 \text{ h}$



$\geq 0.8 \text{ mW}$



34.8 mm

### Stabilized HeNe Laser model SL 04

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- amplitude or frequency stabilization as operating modes
- standardized diameter of laser tube



$< 0.3\% / 24 \text{ h}$



$\pm 2 \cdot 10^{-9} / 1 \text{ h}$



$\geq 1.2 \text{ mW}$



45 mm

**PRECISION & QUALITY**  
MADE IN GERMANY

**For customer-specific versions, OEM applications or integration in special measurement stations, please contact us.**

**We will be happy to personally assist you in finding solutions for your measuring tasks.**

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