

Cross Line Laser Modules

PRODUCT FEATURES

- ▲ High quality laser diodes
- ▲ Wide range of output power and wavelengths
- ▲ Excellent power & wavelength stability
- ▲ Low power consumption
- ▲ Perfectly straight cross line

APPLICATIONS

- ▲ Targeting & alignment
- ▲ Automation & machine vision
- ▲ Metrology & instrumentation

Hazard Note: This laser module emits radiation that is harmful to the human eye. Depending on wavelength the radiation may be visible or invisible. When in use, do not look directly into the laser emitting aperture. Looking directly at laser emission at close range may cause eye damage.



Electrical Precaution: The case is internally connected to the circuit; damaging the anodized surface may result in failure of the laser module.

Warranty: One year. No warranty coverage for disassembly, modifications or damage due to abuse or misapplication.

TOPAG offers standard laser modules LDL and LDH series with refractive cross line optic. The modules are fully self-contained with integrated laser driver circuit, surface polished glass aspherical lens, laser diode and cross line generator. A wide choice of laser diode modules with different output power and wavelength combinations in the range from 440 nm to 830 nm is available.

Unique properties of cross line laser modules include a perfectly straight cross, compact anodized aluminium body, fine adjustable focus, clean beam, low divergence and high boresight accuracy. The industrial-grade modules demonstrate reliability and long-term stability. Green cross line lasers have best visibility for the human eye and are recommended for alignment applications.

The standard cross line lasers have a fan angle of 25 degree. Fan angles of 5, 10 and 45 deg are available on request. Please contact us for any custom requirements.

CUSTOMIZATION OPTIONS

- ▲ Mechanical design
- ▲ Fan angles
- ▲ Modulation
- ▲ Other wavelengths
- ▲ Cable length
- ▲ Connector
- ▲ Supply voltage
- ▲ Working distance

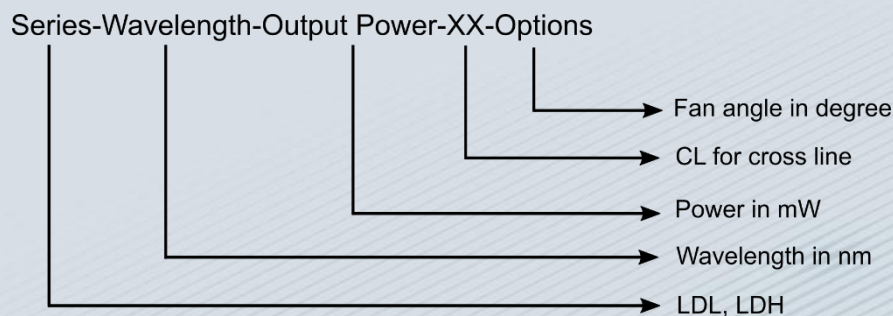
SPECIFICATIONS

Standard series	LDL	LDH
Output power	0.4 to 3.5 mW	7 to 70 mW
Wavelength	635 to 670 nm	515 to 830 nm
Fan angle*	25 deg full fan angle	
Power stability	< 1%	
Cross line length	0.4433 x distance	
Line thickness	adjustable	
Minimum line thickness	< 1mm at up to 1m distance	
Dimensions (Ø x L, mm)	10.5 mm x 30 mm	12 mm x 55 mm

*We also offer 5, 10 and 45 deg fan angles.

ORDERING INFORMATION

Please use the following code for ordering:



Examples:

LDL – 635 – 0.4 – CL-25 – Cross line laser module with 635 nm wavelength, 0.4 mW output power and fan angle 25°.

LDH – 830 – 30 – CL-25: Cross line laser module with 830 nm wavelength, 30 mW output power and fan angle 25°.