

Accessories

Following accessories are available to Latronix AB's LD-lasers:

- Brackets
 - BVD
 - BV20
- Bars to brackets
 - 200mm
 - 500mm
- 90 degree angles to bars
- 90 degree optics
- Special optics, for example
 - Cross optic
 - Grid
- It is possible to receive the laser with its components fixed. This might be necessary if the laser will be exposed to strong vibrations.



Latronix AB develops and manufactures lasers and non-contact length, width and dimension measurement systems with high accuracy. We also offer complete customized solutions.

If you have any questions, please contact us!

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LD- Laser User manual



Product information for LD-lasers

Dimensions:

Diameter: 20mm ± 0,5mm

Length: 115mm ± 0,5mm

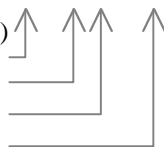
Model codes: LDX – YL – Z

X – output power (mW)

Y – wavelength (nm)

L – line optics

Z – input voltage



For model code of delivered laser, see delivery certificate

Example:

The LD6-635L-230 model is an LD-laser with 6 mW output power, 635 nm wavelength and 230 volt AC input voltage.

Specifications

Degree of protection provided by enclosures IP65 (Totally protected against dust and protected against low pressure jets of water)

Electrical connection Cable length 2 m. The input voltage is galvanic separated from the shield. The lasers can be delivered with 5, 12 and 24 VDC or 230 VAC input voltage (CE-marked adapter).

Operating temperature range -10° to +40°C
Typical lifetime at 25°C 30 000 – 40 000 hours

Field of view (if not laser dot) 4°, 25°, 30°, 45°, 60°, 90° (45° is standard)
Even other fields of view are available
Guarantee One-year guarantee (if no changes has been done)

For specifications concerning the delivered laser; see delivery certificate.

| | LD 1 | LD 3 | LD 6 | LD 12 | LD 18 |
|---|------|------|------|-------|-------|
| Max. power consumption for different lasers (mA): | | | | | |
| 5 (VDC) | 60 | 60 | 70 | 80 | 120 |
| 12 (VDC) | 45 | 45 | 50 | 60 | 90 |
| 24 (VDC) | 40 | 40 | 45 | 50 | 80 |
| 230 (VAC) | 5 VA | 5 VA | 5 VA | 5 VA | 5 VA |

Usage and Installation

Mounting Mounting surface must be stable and free from vibrations. The laser should be mounted to avoid possible human exposure of the laser beam.

Latronix AB has special laser brackets for sale; please contact us for more information. If other brackets are used they must be used in a way so that the covering of the laser is not deformed.

Adjustment It is possible to change the focus by turning the front of your laser.

Latronix AB can adjust other fields of view on your LD-laser. NB! Only Latronix is allowed to do this adjustment; the laser class might be changed!

Connection If the laser is delivered without AC adapter: The red conductor must be connected to positive voltage, the black to negative.

Maintenance No maintenance is demanded except that the external windows are kept clean. The guarantee is only available for an intact laser.



Laser safety

Laser light is sorted in different security classes. The laser class can be seen on the laser covering. The following classes are available for LD-lasers:

Class 2 Do not normally present a hazard because of normal human aversion responses.

Class 3R Do not normally present a hazard but **would** present if viewed using collecting optics.

Class 3B Present an eye and skin hazard if viewed directly.

On our home page a detailed description about the laser classes can be found. Go to: www.latronix.se