



- IP 67
- 9-24 VDC
- Diode
Technology
- Digital
Modulation
- Point
Line
Cross

Delta VXS Series

Lasers VXS series are made of stainless steel with a solid industrial-grade housing and an adjustable focus. Adjust the brightest possible spot, cross, or laser line with minimum width for your application. Readjust without tools after changing the projection distance. This laser can be used in complex image processing setups, in sensors, and can even be integrated into sturdy processing machines such as saws. This laser can be offered with green, red, and IR wavelengths and optical laser power in the range from 1mW up to 200mW. The laser electronics are available in different versions depending on the requirements. The Delta VXS series is offered with a digital modulation of up to 5 kHz and temperature protection against overheating.

The power supply voltage of the laser is from 9V DC to 24V DC.

The consumption depends on the power of the laser. As standard, a 2.5m long cable is attached to the laser but it can be extended to 5m / 10m / 15m.

OVERVIEW

- Robust stainless steel housing
- Degree of protection: IP67
- Wavelength: 505nm - 808nm
- Power: up to 200mW
- Digital Modulation
- Thin & bright line
- Manual focus
- Temperature protection
- Electrical isolated
- ESD protection

Applications

- Alignment and positioning
- 3D contour mapping
- Process control
- Machine vision
- Measuring systems
- High-speed industrial inspection

SKU / Order code:

Model	Wavelength	Optical Power	Projection Profile	Projection Optics
DL-VXS	XXX	XXX	XX	XX

*Example: DL-VXS-520-10-B2-PL(60°)

Technical specifications:

Wavelength (nm)	505	515	520				635	638	808
Optical power (mW)	≤35	≤35	≤10	≤20	≤35	≤50	≤5, ≤35	≤100, ≤170	≤200
Laser class	3A	3A	3A	3A	3A	3A	3A	3R	3R
Technology	Diode	Diode	Diode	Diode	Diode	Diode	Diode	Diode	Diode
Operating temperature	-10° +60°	-10° +60°	-20° +60°	-20° +60°	-20° +60°	-20° +60°	-20° +60°	-20° +60°	0° +45°
Storage temperature	-40° +85°	-40° +85°	-40° +85°	-40° +85°	-40° +85°	-40° +85°	-40° +85°	-40° +85°	-40° +85°

Electrical specifications:

Input voltage	9-24V DC	9-24V DC	9-24V DC	9-24V DC	9-24V DC	9-24V DC	9-24V DC	9-24V DC	9-24V DC
Operating current	100mA	80mA	50mA	120mA	100mA	150mA	45mA	120mA	200mA
Protection from high temperature	-	-	-	-		✓		✓	✓

Electrical protection: Protection from polarity reversal, Overvoltage protection

Connection: Stainless steel gland

Input voltage polarity: Blue color (-), Brown color (+)

Optical specifications:

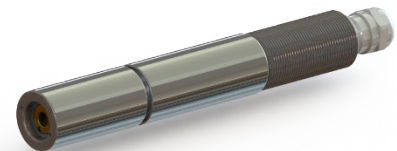
Projection profiles	* (B1) Point * (B2) Line * (B3) Cross
Gaussian line	* (CL) 90° – 110° (gaussian linear profile)
Homogeneous line	* (PL) homogeneous line optics with fan angle - 20°, 30°, 45°, 60°, 90°, 110°
Focus	Adjustable manual focus
DOE projection	Grid, Crossed lines, Circle (on request)

Electrical variants:

Digital modulation (PWM): 0V - 3,3V/5V/Vin, 5 kHz (upon request)

Mechanical specification:

Dimensions (mm)	Laser head diameter: Ø20 Length: 147mm ± 2
Weight (g.)	250
Material	Stainless Steel
Protection rating	IP67



Laser Head Drawing

*All size are mm

