



IP 67	9-30 VDC	Diode Technology	Digital Modulation	Point Line Cross
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Delta V Series

The lasers of the Delta F series are intended for the meticulous positioning in applications for part processing. This laser series is equipped with green, red and IR wavelengths and laser head sizes Ø20mm. The lasers are housed in a solid enclosure, which is easy to mount and adjust. The laser electronics are available in different versions depending on the requirements. The Delta V series is offered with a digital modulation of up to 5 kHz and a temperature protection against overheating. This laser series offers optical power in the range: 1mW ~ 200mW with a fixed focus. The power supply voltage of the laser is from 9V DC to 30V 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

- Solid industrial enclosure
- Degree of protection: IP67
- Wavelength: 505nm - 808nm
- Power: up to 200mW
- Digital Modulation
- Thin & bright line
- Fixed focus
- Precision optics
- Temperature protection

Applications

- Precise positioning
- Alignment
- Centering
- Machine vision

SKU / Order code:

Model	Wavelength		Optical Power		Connection		Projection Profile
DL-V-	XXX	-	XXX	-	XX	-	XX

*Example: DL-V-520-10-P1-B2

Technical specifications

Wavelength (nm)	505	515	520				635	638	650	808
Optical power (mW)	≤35	≤35	≤10	≤30	≤50	≤80	≤30	≤180	≤200	≤500
Laser class	3R	3R	3R	3R	3R	3R	3A – 3R	3R	3R	3B
Technology	Diode	Diode	Diode	Diode	Diode	Diode	Diode	Diode	Diode	Diode
Operating temperature	-10° +60°	-10° +60°	-20° +60°	-20° +60°	-20° +60°	-20° +60°	-10° +60°	-10° +60°	-20° +75°	10° +60°
Storage temperature	-40° +85°	-40° +85°	-40° +85°	-40° +85°	-40° +85°	-40° +85°	-40° +85°	-40° +85°	-40° +85°	-40° +85°

Electrical specifications

Input voltage	9-30V DC	9-30V DC	9-30V DC	9-30V DC	9-30V DC	9-30V DC	9-30V DC	9-30V DC	9-30 VDC	9-30V DC
Operating current	100mA	80mA	50mA	120mA	200mA	300mA	80mA	200mA	250mA	500mA
Protection from high temperature	-	-	-	-	✓	✓	-	✓	✓	✓

Electrical protection Protection from polarity reversal

Connection ***(P1)** Metal cable gland/fitting ***(P2)** 4-pin connector, cable length: 2,5m/5m/10m/15m

Optical specifications

Projection profiles ***(B1)** Point ***(B2)** Line ***(B3)** Cross

Line Fan Angle 30° , 60° , 90° , 110° (Linear profile)

Focus Fixed focus

DOE projection Grid, Crossed lines, Circle

Electrical variants

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

Mechanical specification

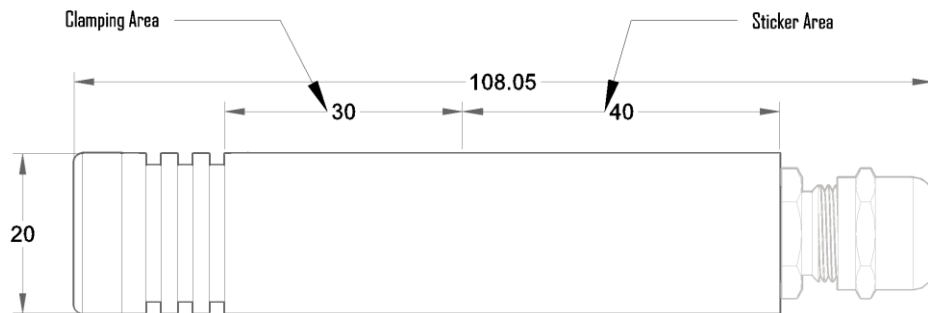
Dimensions (mm.) Laser head diameter: Ø20
Length: 108

Weight (g.) 105

Material Anodized Aluminum

Protection rating IP67

Laser head drawing



Laser stand drawing

