

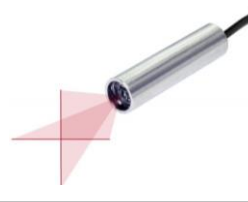
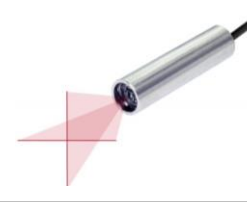


Green Crosshairs Laser Module

Specifications	Model Number	VLM-520-29 series	VLM-520-58 series	VLM-520-59 series (TTL)	VLM-650-29 LPT	VLM-635-58 series	VLM-635-59 series (TTL)
							
Dimensions		Ø9 x 26 mm	Ø10 x 40 mm	Ø10 x 40 mm	Ø9 x 26 mm	Ø10 x 40 mm	Ø10 x 40 mm
Operating voltage		7~10 VDC	3~6 VDC	3~6 VDC	2.6~6 VDC	3~6 VDC	3~6 VDC
Operating current		Less than 80mA / 100mA	Less than 80mA / 180mA	Less than 80mA / 180mA	Less than 35mA	Less than 50mA / 100mA	Less than 50mA / 100mA
Optical power		4~5mW / 9~10mW	Less than 10mW / 30mW	Less than 10mW / 30mW	Less than 2mW	Less than 5mW / 10mW	Less than 5mW / 10mW
Laser power output		Less than 0.39mW / 1mW	Less than 0.39mW / 1mW	Less than 0.39mW / 1mW	Less than 0.39mW	Less than 0.39mW / 1mW	Less than 0.39mW / 1mW
Laser class		Class 1M / Class 2M	Class 1M / Class 2M	Class 1M / Class 2M	Class 1M	Class 1M / Class 2M	Class 1M / Class 2M
Wavelength		505~530nm	510~530nm	510~530nm	645~665nm	630~645nm	630~645nm
Collimating lens		Plastic lens	Glass lens	Glass lens	Plastic lens	Glass lens	Glass lens
Crosshairs lens		Plastic lens	Glass lens	Glass lens	Plastic lens	Glass lens	Glass lens
Beam shape		Crosshairs	Crosshairs	Crosshairs	Crosshairs	Crosshairs	Crosshairs
Laser Line width		1mm at 40cm	Less than 1mm	Less than 1mm	1mm at 40cm	Less than 1mm	Less than 1mm
Laser line accuracy		80" (+/- 2mm @5M)	40"(±1mm@5M)	40"(±1mm@5M)	80" (+/- 2mm @5M)	40"(±1mm@5M)	40"(±1mm@5M)
Emitting angle		More than 60°	10°, 15°, 20°, 30°, 60°, 110°	10°, 15°, 20°, 30°, 60°, 110°	More than 60°	10°, 15°, 20°, 30°, 60°, 110°	10°, 15°, 20°, 30°, 60°, 110°
Operating temp. range		+15°C ~+30°C	-20°C ~+60°C	-20°C ~+60°C	+15°C ~+30°C	-20°C ~+60°C	-20°C ~+60°C
Storage temp. range		-20°C ~+65°C	-20°C ~+85°C	-20°C ~+85°C	-20°C ~+65°C	-20°C ~+85°C	-20°C ~+85°C
Housing material		Brass	Stainless steel	Stainless steel	Brass	Stainless steel	Stainless steel
Potential of housing		VDD(+)	Insulated	Insulated	VDD(+)	Insulated	Insulated
Electrostatic discharge (ESD)		30KV	30KV	30KV	30KV	30KV	30KV
Moisture sensitivity level (MSL)		Level 1 - acc to JEDEC J-STD-020E.	Level 1 - acc to JEDEC J-STD-020E.	Level 1 - acc to JEDEC J-STD-020E.	Level 1 - acc to JEDEC J-STD-020E.	Level 1 - acc to JEDEC J-STD-020E.	Level 1 - acc to JEDEC J-STD-020E.
Wire type		1007-26AWG	2464 2-WIRE CABLE 26 AWG	2464 2-WIRE CABLE 26 AWG	1007-26AWG	2464 2-WIRE CABLE 26 AWG	2464 2-WIRE CABLE 26 AWG
Cable length		115±15mm	330±30mm	330±30mm	115±15mm	330±30mm	330±30mm
Mean time to failure (MTTF) 25°C		5000hrs	10000hrs	10000hrs	5000hrs	10000hrs	10000hrs
Application		Economic application	Precision fine crosshairs for Machine vision, CNC and Medical	Precision fine crosshairs for Machine vision, CNC and Medical with modulation function	Economic application	Precision fine crosshairs for Machine vision, CNC and Medical	Precision fine crosshairs for Machine vision, CNC and Medical with modulation function
Suggestion work distance		0~1 meter / 0~3 feet	0~1.2 meters / 0~4 feet	0~1.2 meters / 0~4 feet	0~1 meter / 0~3 feet	0~1.2 meters / 0~4 feet	0~1.2 meters / 0~4 feet