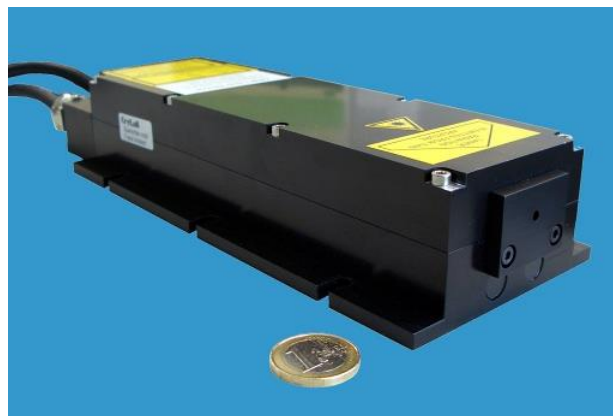


FQSS 266-50

Diode pumped passively Q-switched solid state laser

- 266 nm
- single pulse
- < 1.1 ns
- 1 – 100 Hz
- > 50 µJ



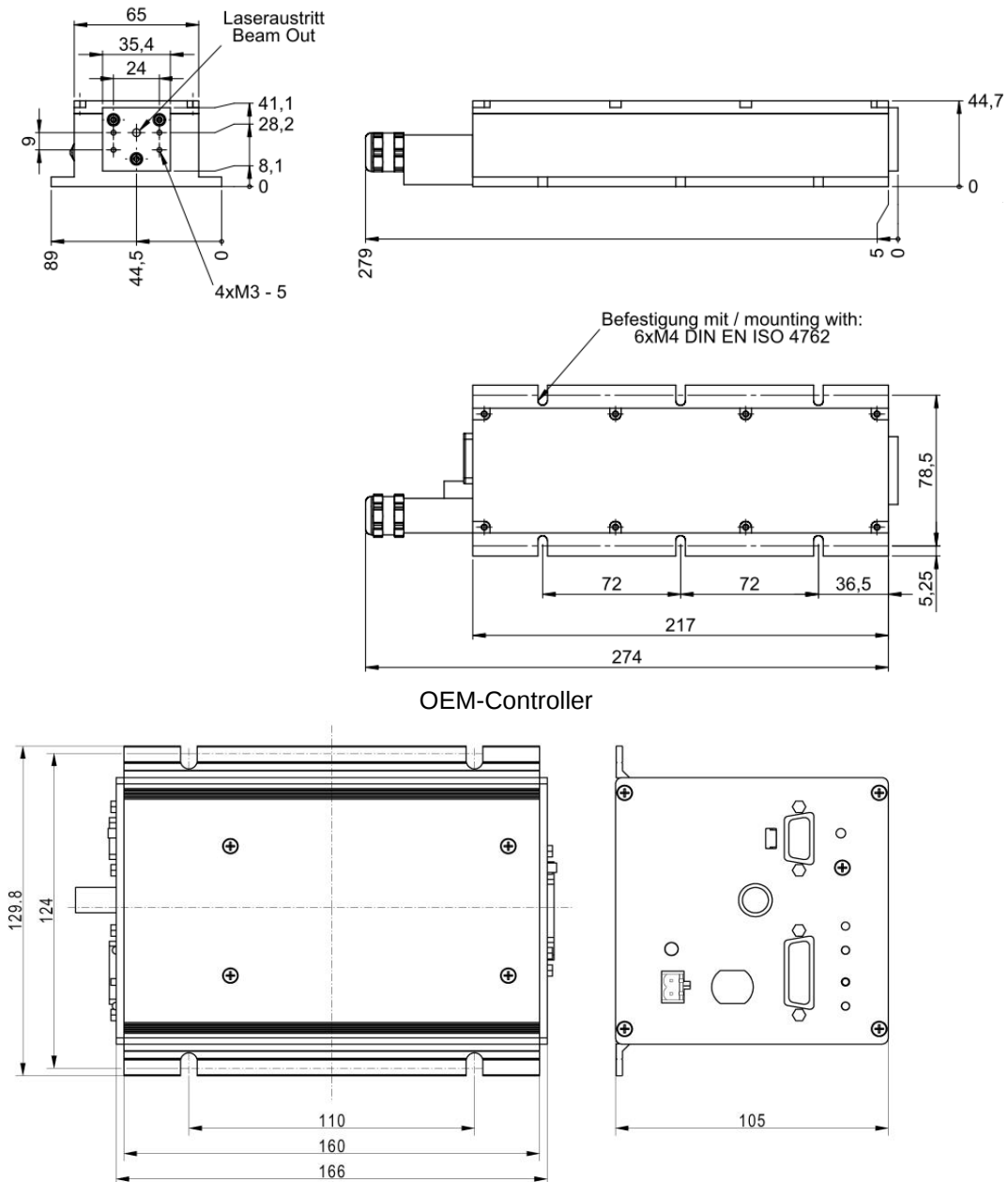
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Optical Data	Wavelength	266 nm
	Spatial Mode	TEM ₀₀
	M ²	< 1.5
	Beam Divergence (full angle)	< 3.0 mrad
	Beam Ellipticity	< 1.5 : 1
	Waist Diameter	800 ± 200 µm (located at about 110mm inside the laser head)
	Beam Diameter	800 ± 200 µm (at laser exit)
	Peak Power	> 45 kW @ 1 - 100 Hz
	Pulse Energy	> 50 µJ @ 1 - 100 Hz
	Pulse Repetition Rate (with external trigger)	1 - 100 Hz
	Pulse Width (FWHM)	< 1.1 ns
	Polarization Ratio	> 100:1, vertical
	Long term pulse energy stability (6 hours) ¹⁾	< ± 3 %
	Pulse-To-Pulse Stability ²⁾	< 1 % rms
	Laser Classification	4 / IV
	Residual Emission	< 0.5 mW @ 1064 nm (Class 3R) < 0.1 mW @ 532 nm (Class 2)
Optical Output	Free Beam	
Electrical Data	Electrical Power Consumption	< 70 W
	Line Voltage	100 - 240 V AC (50-60 Hz) or 24 V DC
Interface	RS 232, USB	
Miscellaneous	Warm-up Time	< 15 min
	Operating Temperature	18 - 38 °C
	Laser Head Size	217 x 65 x 45 mm (core dimensions)
Options	Synchronization signal output (rise time < 2 ns)	
	Manual shutter or electrical beam blocker	
	Manual or electrical driven wavelength switch 266 nm / 532 nm	
	External telescope (e.g. M=5)	
	Manual or electrical attenuator	
	Stand Alone System (incl. key-switch, heat sink, manual shutter; CDRH compliant)	

¹⁾ Drift over 6 hours, energy averaged over 10 sec after 5 min of continuous operation, temperature variation < 3 °C/hour.

²⁾ RMS over 1000 pulses after 5 min of continuous operation.

Laser Head and Controller



Laser Safety Labels

The FQSS266-50 lasers are class 4 / IV according to IEC 60825-1:2014

