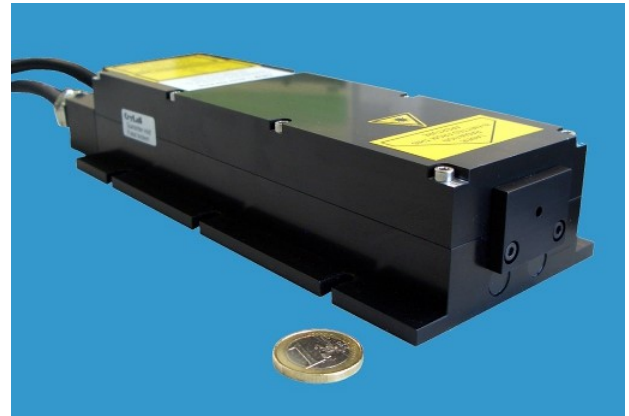


FQSS 266-50

Diode pumped passively Q-switched solid state laser

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



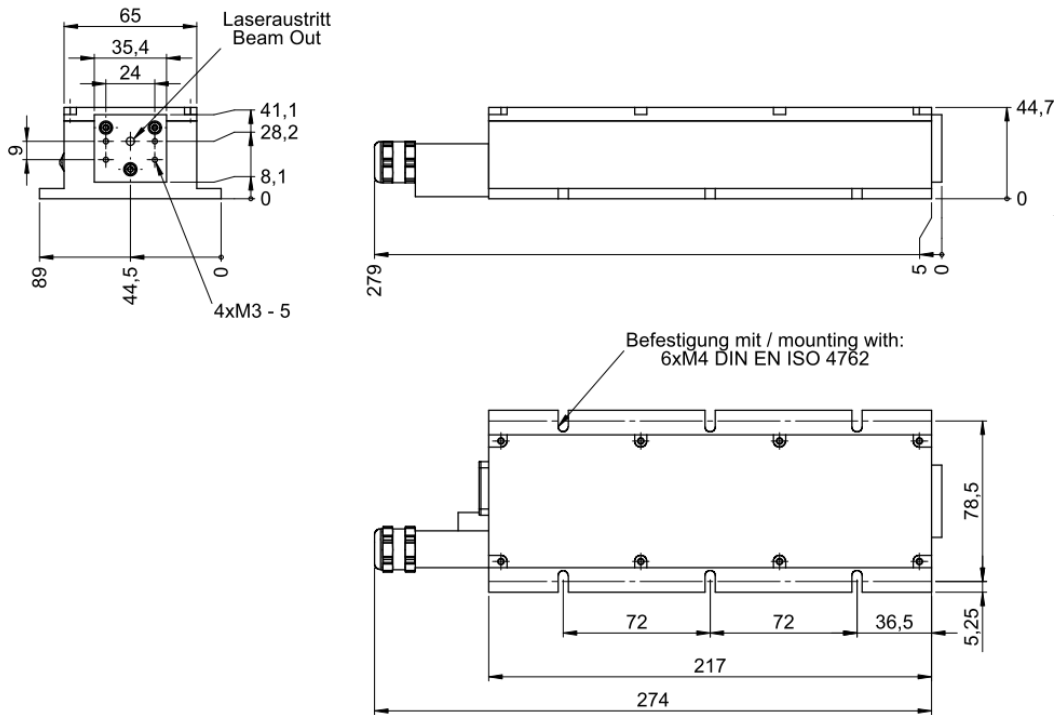
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Optical Data	Wavelength	266 nm
	Spatial Mode	TEM ₀₀
	M ²	< 1.5
	Beam Divergence (full angle)	< 3.0 mrad
	Beam Ellipticity	< 1.5 : 1
	Waist Diameter	800 ± 200 μ m (located at about 110mm inside the laser head)
	Beam Diameter	800 ± 200 μ m (at laser exit)
	Peak Power	> 45 kW @ 1 - 100 Hz
	Pulse Energy	> 50 μ J @ 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)	

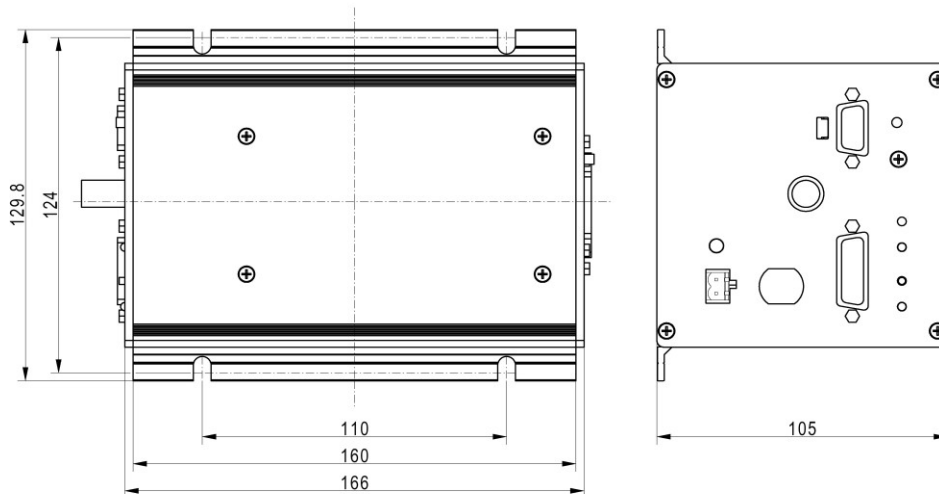
¹⁾ Drift over 6 hours, energy averaged over 10 sec after 5 min of continuous operation, temperature variation < 3 °C/hour.

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

Laser Head and Controller



OEM-Controller



Laser Safety Labels

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

<p>wavelength: 266 nm max. output: 400 µJ pulse duration: <1.3 ns max. repetition rate: 200 Hz</p> <p>Complies with IEC 60825-1:2014 Complies with 21CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001</p>	<p>DANGER - INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION</p> <p>CLASS 4 LASER PRODUCT</p>	<p>IS EMITTED FROM THIS APERTURE</p> <p>LASER RADIATION</p>
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