

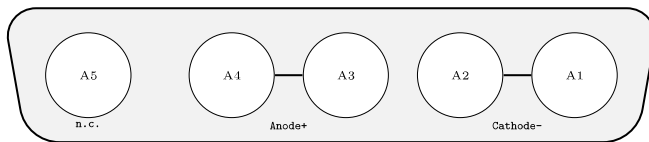
# Tabletop Laser Controller

Type: ds11-la50v12-t12782-v1-580



- Laser max.: 50A, 12V
- trise-fall < 25us (optional < 5us)
- Supply Voltage: 90~230VAC - 50/60Hz
- External, Analog and Digital Modulation
- Internal Pulse Generator
- Pulses and Bursts internally and externally triggered
- Bias Current option
- Pilot Laser Supply
- External Fan Support
- Photo Diode Current Monitor max. 4mA
- Laser Current Monitor
- optional additional TEC-stages

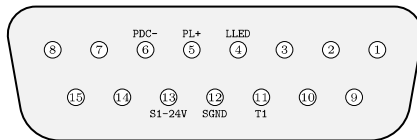
## Laser Connector



SubD-5W5 female

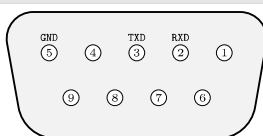
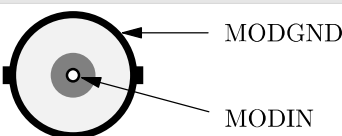
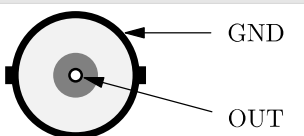
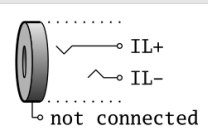
PIN.No	Abbr.	Function
A3; A4	LANO+	Laser Diode Anode (+)
A1; A2	LCAT-	Laser Diode Cathode (-)
A5	n.c.	

## Support Connector

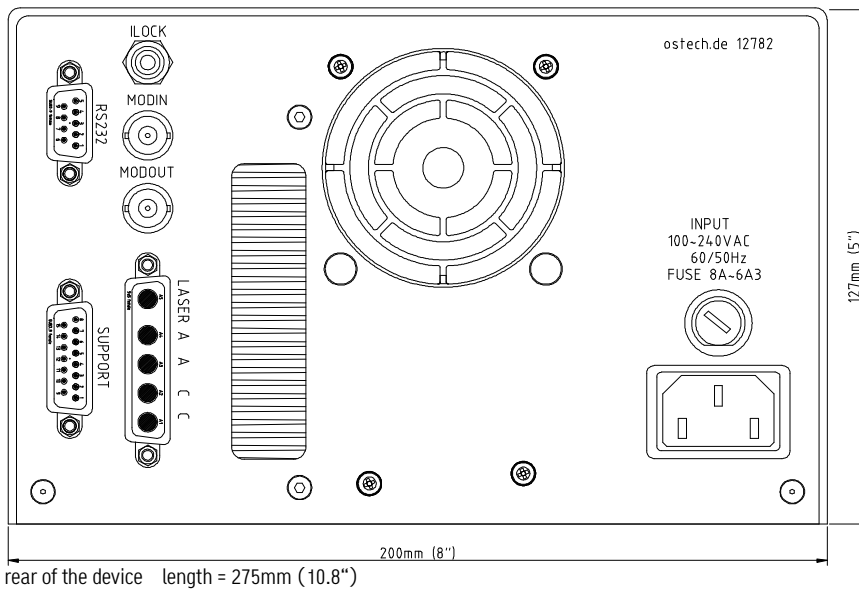


SubD-15 female

PIN.No	Abbr.	Function
4	LLED	Laser Active LED - Anode (+), 5V over 470R, v.s. GND
5	PL+	Pilot Laser (+), v.s. GND
6	PDC-	Photo Diode Cathode (-), v.s. GND
11	T1	Temperature Sensor 1 Input, default NTC10kΩ, v.s. GND
12	GND	Common Ground
13	1-24V	1 to 24V Supply, max. 800mA, vs. GND, supports fan etc.
	SCR	Common Screen

RS232 Connector	AMOD/DMOD-IN Connector	MOD-OUT Connector	Interlock Connector
			
<p>SubD-9 female Standard RS232-Connector 9600-Baud-8N1 (No Null-Modem Cable !)</p>	<p>BNC-Socket Input-Impdanz 10kOhm Digital Modulation with TTL-Pegel Analog Mod. 0-4[V] =&gt; 0-I<sub>max</sub>[A]</p>	<p>BNC-Socket, current monitor 0-I<sub>max</sub>[A] -&gt; 0-4[V] Take care for laser isolation if you connect GND potential to an oscilloscope f.e.</p>	<p>Jack Connector 3.5mm Laser runs only if closed (ca. 5mA over 2V -&gt; R &lt;= 400R)</p>

## Tabletop Laser Controller



### Revision overview:

2015.01.16: "v1" - only 1 pin interface for temp. sensor

### References:

<http://www.ostech.de/en/products/laser-drivers/ds11-t127>  
<http://www.ostech.de/en/downloads/manuals/ds-en.pdf>  
<http://www.ostech.de/en/downloads/labview>

### Accessories

- acc-converter-usb-to-rs232-1m5-iso-417  
RS232 to USB converter optical isolated with FTDI-Chip cable 1.5m
- kab-lpa08-16pol-subd15m-oe-1.5m-39  
cable 16x0.35qmm / subd15-Gold-6,5A per pin to open end / length-1m5
- kab-la80-2x10qmm-5w5-oe-1.3m-141 / 2.5m-657 / 5.0m-660  
cable 2x10qmm coaxial imax 80A SUBD-5W5 to open ends length 1m3 / 2m5 / 5m0