

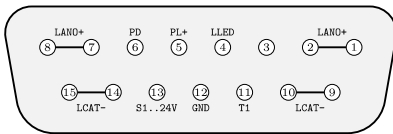
Tabletop Laser & Peltier Controller

Type: ls11-la25v12-t9527-v2-448



- Laser max.: 25A - 12V
- trise-tfall < 25us (optional < 5us)
- Supply Voltage: 100~230VAC - 50/60Hz
- External, Analog and Digital Modulation
- Internal Pulse Generator
- Continuous Pulses, Single Pulse, Pulse Bursts, Internal or External Triggered
- Bias Current option
- Pilot Laser Supply
- External Supply max. 1..22V - 800mA for Fan etc.
- Photo Diode Current max. 4mA

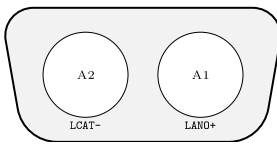
Laser Connector



SubD15-female / max. total laser current over this socket is 20A, otherwise use the SubD-2W2 connector

PIN.No	Abbr.	Function
1;2;7;8	LANO+	Laser Diode Anode (+)
4	LLED	Laser Active LED - Anode (+), ILED ca.5mA, vs. GND
5	PL+	Pilot Laser (+), vs. GND
6	PD	Photo Diode Cathode (-), vs. GND
9;10;14;15	LCAT-	Laser Diode Kathode (-)
11	T1	Temperature Sensor 1 Input, default NTC10kΩ, vs. GND
12	GND	Common Ground
13	S1..24V	1 bis 22V Supply, max. 800mA, vs. GND, supports fan etc.

Laser Connector



SubD2W2-female

PIN. No	Abbr.	Function
A1	LANO+	Laser Diode Anode (+)
A2	LCAT-	Laser Diode Cathode (-)

RS232 Connector	AMOD/DMOD Connector	Interlock Connector
<p>SubD-9, female</p>	<p>MODGND MODIN BNC</p>	<p>IL+ IL- not connected Jack Connector 3.5mm</p>
<p>Standard RS232-Connector connected to PC 9600-Baud-8N1(No Null-Modem Cable !)</p>	<p>Input-Impdanz 10kOhm Digital Modulation with TTL-Pegel Analog Modulation 0-4[V] => 0-Imax[A]</p>	<p>Interlock - Laser runs only if closed (ca. 5mA over 2V -> R_{Interlock} <=400R)</p>

Tabletop Laser & Peltier Controller

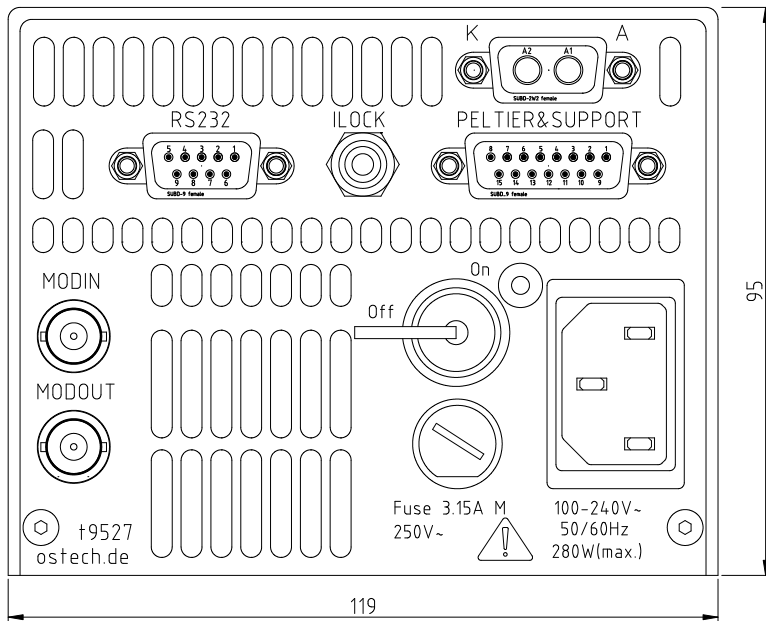


fig: ds01-Rear length 280mm (11")

Rrevision overview:

2006.10.10: "v0" - base derivation in ds11-t95 series
 2011.04.28: "v1" - Photo Diode max. Current increased from 2mA to 4mA, only 1 Pin for temperature sensor, software v2026
 2019.04.01: "v2" - MODOUT signal at rear supported

References:

<http://www.ostech.de/en/products/laser-drivers/ds11-t95>
<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-la40-2pol-2W2male-oe-1.5m-286
cable 2x4qmm / imax-40A subd-2W2m-male to open-ends / length-1m5