

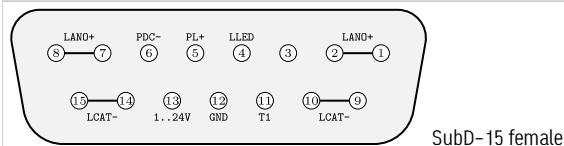
# Tabletop Laser Controller

Type: ls 11-la20v06-t8545-v0-187

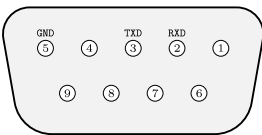
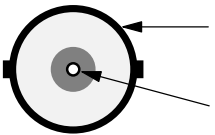
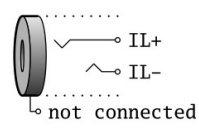


- Laser max. : 20A – 6V
- t-rise-fall <2μs (optional <1μs)
- Supply Voltage: 100~230VAC - 50/60Hz
- External, Analog and Digital Modulation
- Internal Pulse Generator
- Continuouse Pulses, Single Pulse, Pulse Bursts,
- Internal or External Triggered
- Bias Current option
- Pilot Laser Support
- External Supply max. 1..22V – 800mA for Fan etc.
- Photo Diode Current Monitor max. 4mA
- optional additional TEC stage

## Laser & Peltier Connector



PIN.No	Abbr.	Function
1;2;7;8	LANO+	Laser Diode Anode(+)
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
9;10;14;15	LCAT-	Laser Diode Kathode (-)
11	T1	Temperature Sensor 1 Input, default NTC10kΩ, v.s. GND
12	GND	Common Ground
13	1-24V	1 to 24V Supply, max. 500mA, vs. GND, supports fan etc.

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>
Standard RS232-Connector connected to PC 9600-Baud-8N1(No Null-Modem Cable !)	Input-Impdanz 10kOhm Digital Modulation with TTL-Pegel Analog Modulation 0-4[V] => 0-Imax[A]	Interlock – Laser runs only if closed (ca. 5mA over 2V -> R <sub>Interlock</sub> <=400R)

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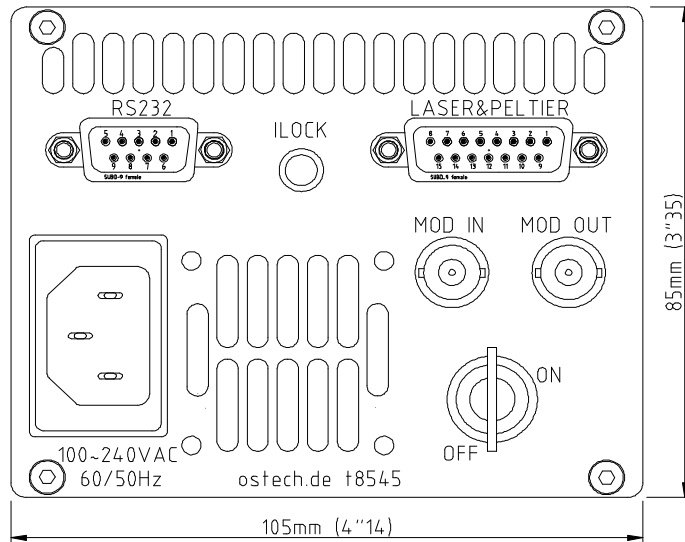


fig: ds11-o85-rear; length 200mm (8")

### Revision overview:

28.04.2011: Photo Diode max. Current increased from 2mA to 4mA  
 16.01.2015: housing changed from t86 11 to t8535

### References:

<http://www.ostech.de/en/products/laser-drivers/ds11-t85>  
<http://www.ostech.de/en/downloads/manuals/ds-en.pdf>  
<http://www.ostech.de/en/downloads/labview>

### Accessories

- kab-lpa08-16pol-subd15m-oe-1.5m-39  
 cable 16x0.35qmm SUBD15-Gold-6,5A/Pin to open end length 1m5
- acc-converter-usb-to-rs232-1m5-iso-417  
 RS232 to USB converter optical isolated with FTDI-Chip cable 1.5m