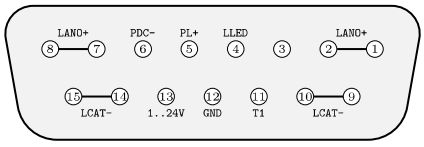
Tabletop Laser Controller

Type: ls11-la20v06-t8535-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

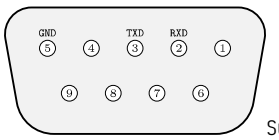
Laser & Peltier Connector



SubD-15 female

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.

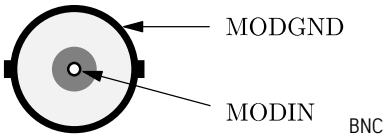
RS232 Connector



SubD-9, female

Standard RS232-Connector connected to PC
9600-Baud-8N1(No Null-Modem Cable !)

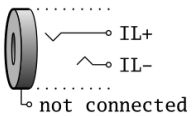
AMOD/DMOD Connector



BNC

Input-Impdanz 10kOhm
Digital Modulation with TTL-Pegel
Analog Modulation 0-4[V] => 0-Imax[A]

Interlock Connector



Jack Connector 3.5mm

Interlock - Laser runs only if closed
(ca. 5mA over 2V -> $R_{Interlock}$ <=400R)

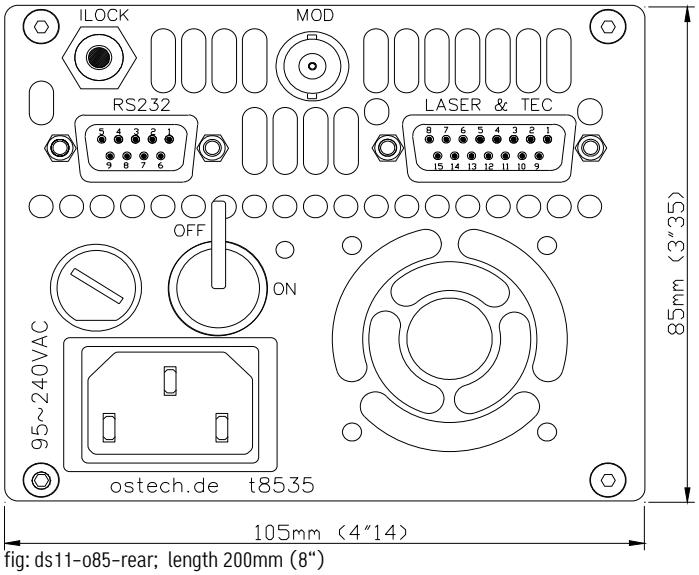


fig: ds11-o85-rear; length 200mm (8")

Revision overview:

28.04.2011: Photo Diode max. Current increased from 2mA to 4mA
16.01.2015: housing changed from t8611 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