

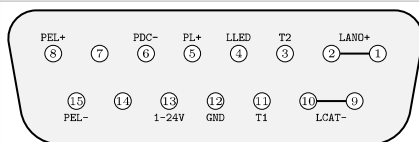
Tabletop Laser & Peltier Controller

Type: ds11-la04v014-pa04v14-t8535-v2-460



- Laser max. : 4A - 14V
- TEC max. : 4A - 14V
- t-rise-fall <2 μ s (optional <1 μ s)
- 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

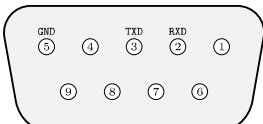
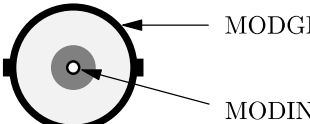
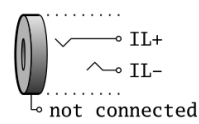
Laser & Peltier Connector



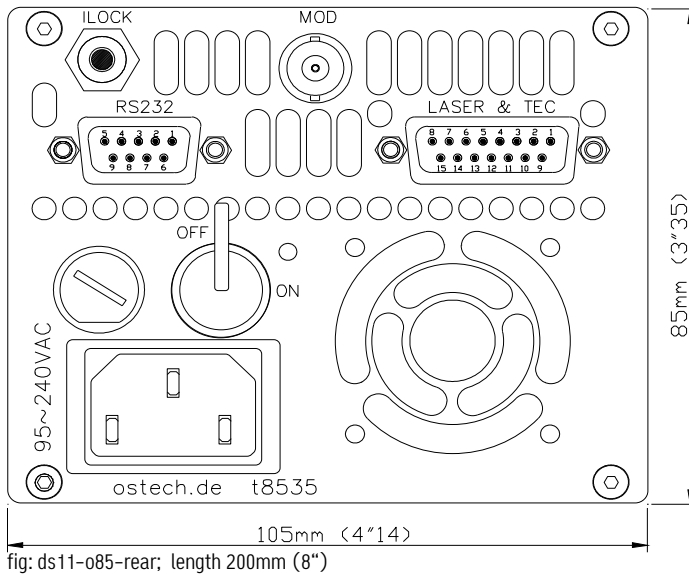
SubD15-female

PIN.No	Abbr.	Function
1;2	LANO+	Laser Diode Anode (+)
3	T2	Temperature Sensor 2 Input, default NTC10k Ω , v.s. GND
4	LLED	Laser Active LED - Anode (+), 5V over 470R, v.s. GND
5	PL+	Pilot Laser (+), v.s. GND
6	PDC-	Photo Diode Cathode (-) ¹⁾
8	PEL+	Peltier element (+)
9;10	LCAT-	Laser Diode Kathode (-)
11	T1	Temperature Sensor 1 Input, default NTC10k Ω , v.s. GND
12	GND	Common Ground
13	1-24V	1 to 24V Supply, max. 500mA, vs. GND, supports fan etc.
15	PEL-	Peltier element (-)

Annotation: The laser ignores by default the 2nd temp. sensor state. If you want to activate this you need to send "2SMC4" command over the RS232.

RS232 Connector	AMOD/DMOD Connector	Interlock Connector
 <p>SubD-9, female</p>	 <p>BNC</p>	 <p>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 _{Interlock} <=400R)

Tabletop Laser & Peltier Controller



Revision overview:

- 01.04.2010: "v0" - derived from type 38
- 28.04.2011: Photo Diode max. Current increased from 2mA to 4mA
- 16.01.2015: "v1" - TEC uses only Pin 8 and 15 optional 2nd TEC on Pin 7 and 14, now always support 2 temp. Sensors
- 18.03.2019: "v2" - max. Laser Voltage increased to 14V

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
- hsp-06-btf-v0-631
butterfly-mount for-btf14-housing, including-passive-cooler-block with integrated-fan, layout-0 Qmax-6W rth-2,2°C/W