

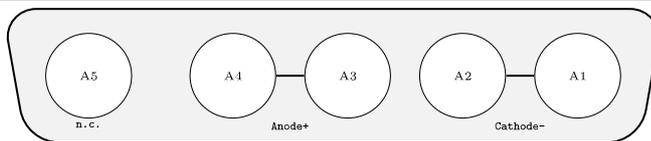
Tabletop Laser & Peltier Controller

Type: ds11-la55_110v05-pa08v14-pa08v14-t12731-v1-162



- Laser max.: 55A, 5V / pulsed max.:110A, 5V at max. duty-cycle 50%
- 1st TEC max.: 8A, 14V
- 2nd TEC max.: 8A, 14V
- trise-tfall < 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
- Current Monitor
- optional additional TEC-stages

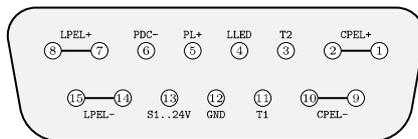
Laser Connector



SubD-5W5 female

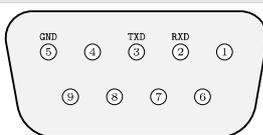
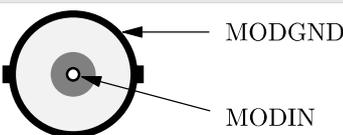
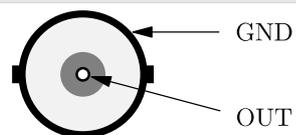
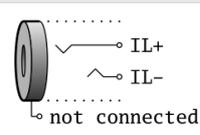
PIN.No	Abbr.	Function
A3; A4	LANO+	Laser Diode Anode (+)
A1; A2	LCAT-	Laser Diode Cathode (-)
A5	n.c.	

Support & Peltier Connector

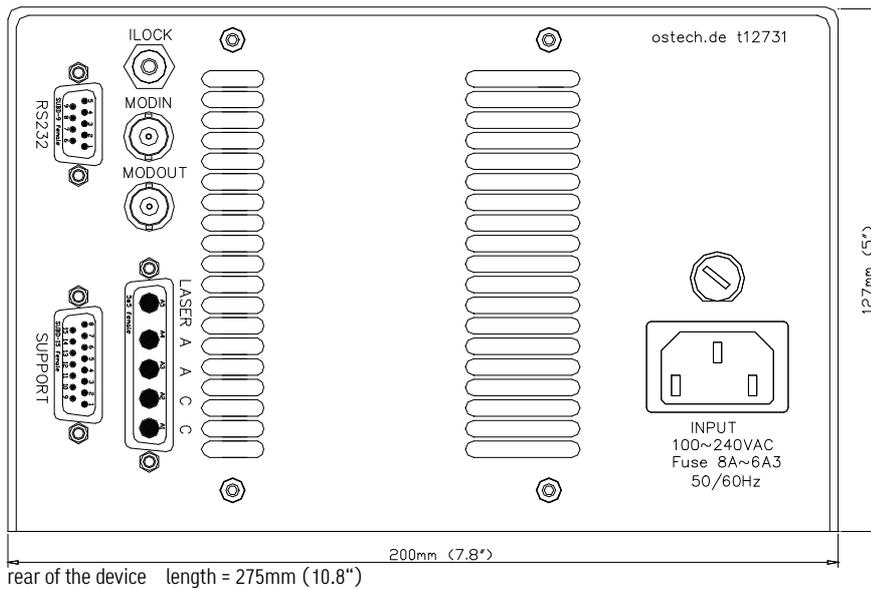


SubD-15 female

PIN.No	Abbr.	Function
1;2	CPEL+	„C“ Peltier element (+)
3	T2	Temperature Sensor 2 Input, default NTC10kΩ, v.s. GND
4	LLED	Laser Active LED +) ca.5mA v.s. GND
5	PL+	Pilot Laser (+) v.s. GND
6	PDC-	Photo Diode Cathode (-) v.s. GND
7;8	LPEL+	„L“ Peltier element (+)
9;10	CPEL-	„C“ Peltier element (-)
11	T1	Temperature Sensor 1 Input, default NTC10kΩ, v.s. GND
12	GND	Common Ground
13	S1..24V	1..24V supply, max. 500mA, vs. GND, supports fan etc.
14;15	LPEL-	„L“ Peltier element (-)

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] => 0-Imax[A]</p>	<p>BNC-Socket, current monitor 0-Imax[A] -> 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 -> R <= 400R)</p>

Tabletop Laser & Peltier Controller



Revision overview:

2007.10.10: "v0" - derived

2017.11.13: "v1" - Software update on Version 2030, LMW down to 1µs, RS232-always online, MOD-OUT signal added

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 / subd 15-Gold-6,5A per pin to open end / length-1m5
- kab-la60-2x6qmm-5w5-oe-1m3-298
cable 2x6qmm / imax 60A SUBD-5W5 to open ends / length-1m3