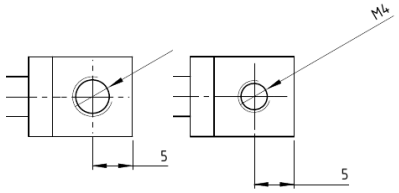
Tabletop Laser & Peltier Controller

Type: ls11-la120v04-t12784-v1-581



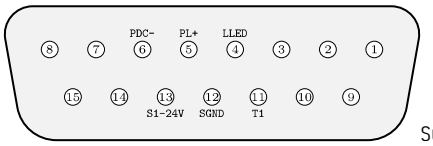
Laser max.: 120A, 04V
trise-tfall < 25us (optional < 5us)
Supply Voltage: 90~230VAC - 50/60Hz
- External, Analog and Digital Modulation
- Internal Pulse Generator
- Pulses and Bursts internally and externally triggered
- Bias Current option
- Pilot Laser Supply
- External Fan Support
- Current Monitor
- optional additional TEC-stages

Laser Connector



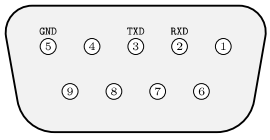
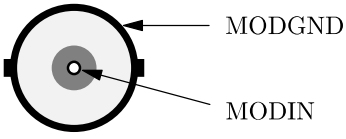
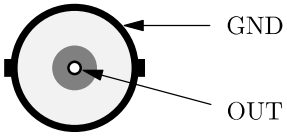
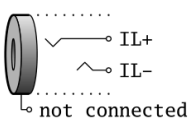
	Abbr.	Function
M4	LDA+	Laser Diode Anode (+)
M5	LDC-	Laser Diode Cathode (-)

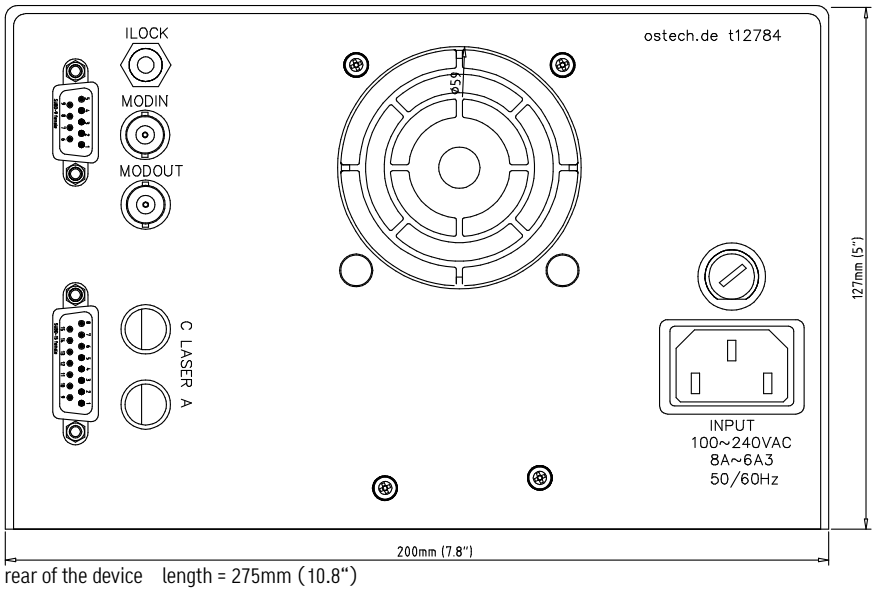
Support Connector



SubD-15 female

PIN.No	Abbr.	Function
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
11	T1	Temperature Sensor 1 Input, default NTC10kΩ, v.s. GND
12	GND	Common Ground
13	1-24V	1 to 24V Supply, max. 800mA, vs. GND, supports fan etc.
	SCR	Common Screen

RS232 Connector	AMOD/DMOD-IN Connector	MOD-OUT Connector	Interlock Connector
			
SubD-9 female Standard RS232-Connector 9600-Baud-8N1 (No Null-Modem Cable !)	BNC-Socked Input-Impdanz 10kOhm Digital Modulation with TTL-Pegel Analog Mod. 0-4[V] => 0-Imax[A]	BNC-Socked, current monitor 0-Imax[A] -> 0-4[V] Take care for laser isolation if you connect GND potential to an oscilloscope f.e.	Jack Connector 3.5mm Laser runs only if closed (ca. 5mA over 2V -> R <= 400R)



rear of the device length = 275mm (10.8")

Revision overview:

2015.10.10: "v1" - temp. sensor input changed to 1 pin version

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 / subd15-Gold-6,5A per pin to open end / length-1m5