

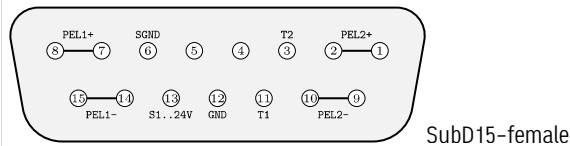
Tabletop Peltier Controller

Type: ps11-pa7.5v48-pa7.5v48-t9512-v0-505



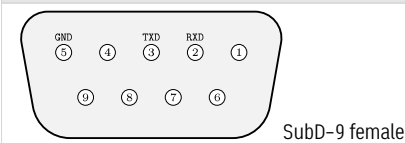
- 1. TEC output max.: 7.5A, 48V
- 2. TEC output max.: 7.5A, 48V
- Vin: 100~240VAC, 50/60Hz
- The controller has 2 universal Temp. Sensor Inputs
- Temp. Sensors NTCs (standard 10 kΩ), PT100, PT1000 or others
- External Support can be configured freely between 1..24V
- Temperature Control Range: -25°C to 150°C
- Accuracy typ. ±0.01K
- Fast feedback loop P.I.D. temperature controller
- Temperature limits
- Current limits
- Interlock Temp. Controll active only when closed

Peltier Connector



PIN.No	Abbr.	Function
1;2	PEL2+	2. Peltier element (+)
3	T2	2. Temperature Sensor Input, vs. GND
6	SGND	Supply GND
7;8	PEL1+	1. Peltier element (+)
9;10	PEL2-	2. Peltier element (-)
11	TEMP1	1. Temperature Sensor Input, vs. GND
12	GND	Common Ground
13	S1..24V	Supply 1..24 Volt, max. 800mA, supports fan etc. (adjust with "GF" or "GFD" command)
14;15	PEL1-	1. Peltier element (-)

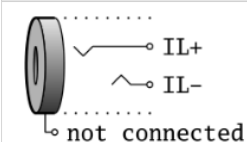
RS232 Connector



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

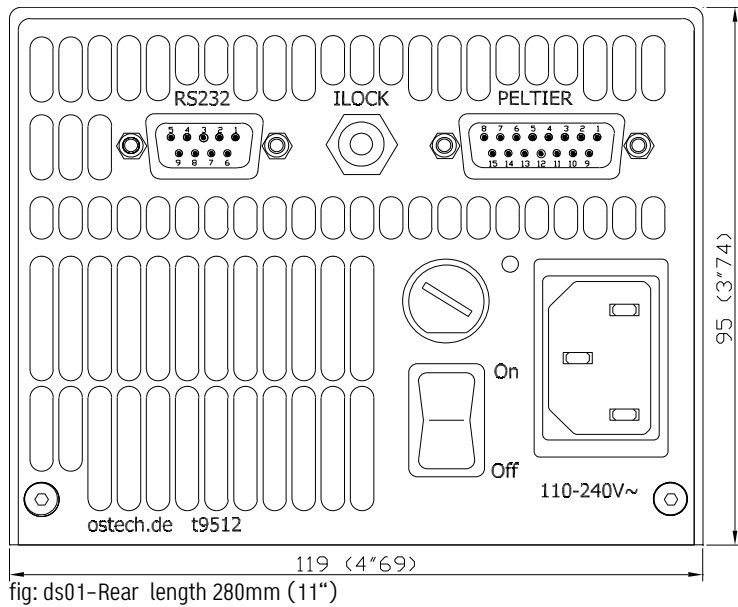
PIN.No	Abbr.
2	RXD
3	TXD
5	GND

Interlock Connector



Jack Connector Stereo 3.5mm / Interlock - Laser can only run if Interlock is closed;
(ca. 5mA over 2V → $R_{Interlock} \leq 400R$)
connect ILOCK- and ILOCK+ pin
Warning: do not connect (SCR) common screen pin

Tabletop Peltier Controller



Revision overview:

2019-10-10: "v0" - new derived from type 121

References:

<http://www.ostech.de/en/products/tec-controllers/ps11-t95>
<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 1m5
- kab-lpa08-16pol-subd15m-oe-1.5m-39
cable 16x0.35qmm SUBD15-Gold-6,5A/Pin to open end length 1m5