

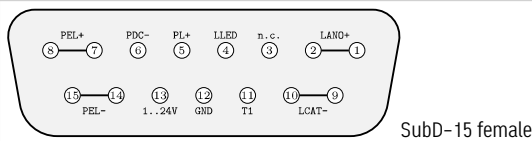
OEM Laser & Peltier Controller

Type: ds01-ls16v08-pa08v16-o4400-v2-347



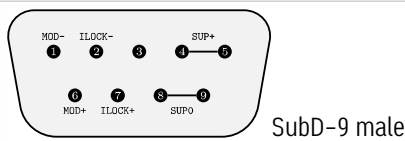
- Laser max.: 16A, 8V
- TEC max.: 8A, 16V
- trise-tfall < 25us (optional < 5us)
- Supply Voltage: 24VDC
- External, Analog and Digital Modulation
- Internal Pulse Generator
- Pulses and Bursts internally and externally triggered
- Bias Current option
- Pilot Laser Supply
- External Fan Support
- optional additional TEC-stages

Laser & Peltier Connector



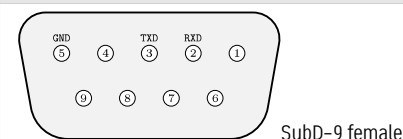
PIN.No	Abbr.	Function
1:2	LANO+	Laser Diode Anode(+)
4	LLED	Laser Active LED – Anode (+), 5V over 470R, v.s. GND
5	PL+	Pilot Laser (+), v.s. GND
6	PDC-	Photo Diode Cathode (-), v.s. GND
7:8	PEL+	Peltier element (+)
9:10	LCAT-	Laser Diode Kathode (-)
11	T1	Temperature Sensor 1 Input, default NTC10kΩ, v.s. GND
12	GND	Common Ground
13	1-24V	1 to 24V Supply, max. 500mA, vs. GND, supports fan etc.
14;15	PEL-	Peltier element (-)

Power and Support Connector for o44 devices



PIN.No	Abbr.	Function
4:5	SUP+	Power Supply typ. +24V DC
8:9	SUP0	Power Supply typ. 0V DC
3	ILOCK+	ca. 5mA over 2V
2	ILOCK-	Laser runs only on closed Interlock
6	MOD+	Digital and Analog Modulation Input: positiv Pin
1	MOD-	Digital and Analog Modulation Input: negativ Pin

RS232 Connector



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

PIN.No	Abbr.
2	RXD
3	TXD
5	GND



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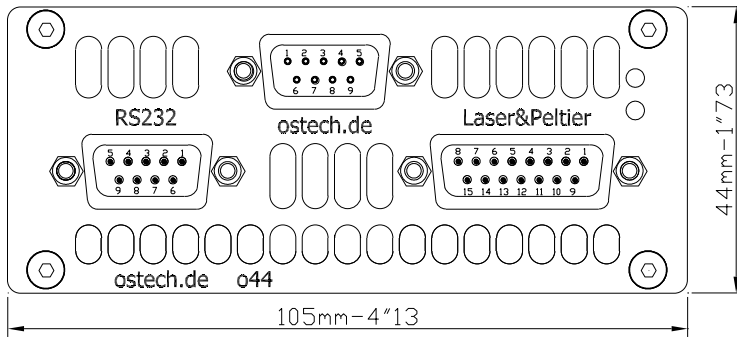


fig: ds01-Rear depth 160mm-6"3

Revision overview:

2017.10.10: "v0" - derived

2015.01.16: "v1" - now always uses only 1 pin for temp. sensor input vs. GND

2017.04.01: "v2" - laser modified from 14A-6V to 16A-8V

References:

<http://www.ostech.de/en/products/laser-drivers/ds01-o44>

<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
- nt-280w-24vdc-t-1m0-ds01o44-587
power-supply vout-24V-13A-90W for-OsTech-OEM
subd9-plug-for-ds01-o44-devices, vin-90~230AC"