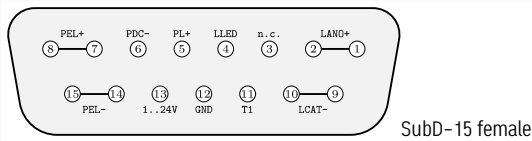


Type: ds01-la12v14-pa08v16-o4400-v2-294



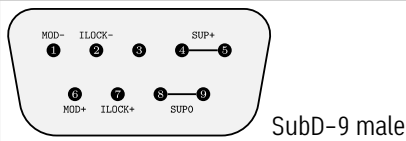
Laser max.: 12A, 14V
 TEC max.: 8A, 16V
 trise-tfall < 25us (optional < 5us)
 Supply Voltage: 24VDC
 - External, Analog and Digital Modulation
 - Internal Pulse Generator
 - Pulses and Bursts internally and externally triggered
 - Bias Current option
 - Pilot Laser Supply
 - External Fan Support
 - optional additional TEC-stages

Laser & Peltier Connector



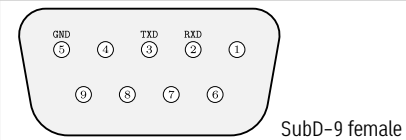
PIN.No	Abbr.	Function
1;2	LANO+	Laser Diode Anode(+)
4	LLED	Laser Active LED – Anode (+), 5V over 470R, v.s. GND
5	PL+	Pilot Laser (+), v.s. GND
6	PDC-	Photo Diode Cathode (-), v.s. GND
7;8	PEL+	Peltier element (+)
9;10	LCAT-	Laser Diode Kathode (-)
11	T1	Temperature Sensor 1 Input, default NTC10kΩ, 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
7	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



OEM Laser & Peltier Controller

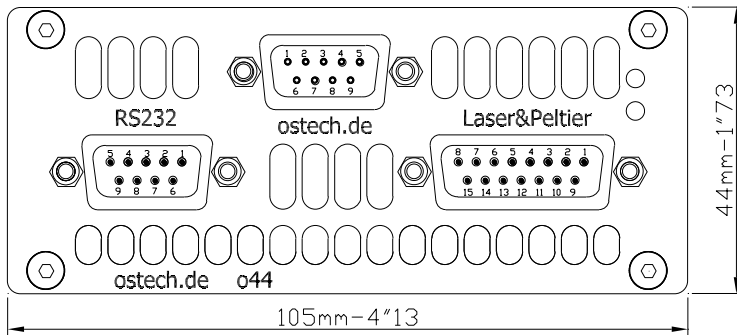


fig: ds01-Rear depth 160mm-6"3

Revision overview:

- 2011.10.10: "v0" - derived from type-501
- 2012.05.28: max. Voltage increased from 6V to 8V
- 2012.09.13: "v1" - Voltage increased from 8V to 14V
- 2017.09.10: "v2" - Temp. Sensor Input reduced to 1 Pin, controller software updated from v2026 to v2030

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-280W for-OsTech-OEM
subd9-plug-for-ds01-o44-devices, vin-90~230AC"