

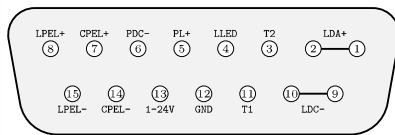
OEM Laser & Peltier Controller

type: ds01-la04v14-pa04v14-pa04v14-o44-v1-97



- Laser max.: 4A, 14V
- TEC 1 max.: 4A, 14V
- TEC 2 max.: 4A, 14V
- 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

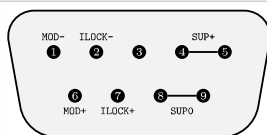
Laser & Peltier Connector



SubD-15 female

PIN.No	Abbr.	Function
1;2	LDA+	Laser Diode Anode
3	T2	Temperature Sensor 2 Input (default NTC-10kOhm@25°C)
4	LEDA+	Laser Active LED - Anode (+) ILED ca.5mA, Cathode at GND
5	PL+	Pilot Laser (+) (PL- at Pin GND)
6	PDC-	Photo Diode Cathode (-) (PDA+ Anode at GND)
7	CPEL+	„C“ Peltier element (+)
8	LPEL+	„L“ Peltier element (+)
9;10	LDC-	Laser Diode Kathode
11	T1	Temperature Sensor 1 Input (default NTC-10kOhm@25°C)
12	GND	Common Ground - n.c. to Screen
13	1-24V	1 bis 24V Supply, max. 500mA vs. GND, supports fan etc.
14	CPEL-	„C“ Peltier element (-)
15	LPEL-	„L“ Peltier element (-)

Power and Support Connector for o44 devices

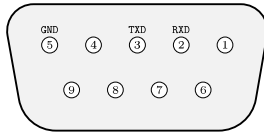


SubD-9 male

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

OEM Laser & Peltier Controller

RS232 Connector



SubD-9 female

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

PIN.No	Abbr.
2	RXD
3	TXD
5	GND

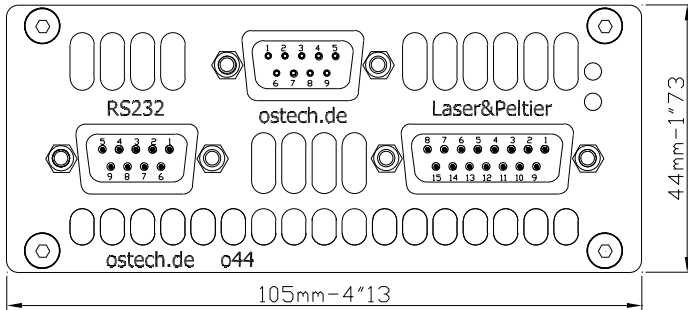


fig: ds01-Rear depth 160mm-6.3

Revision overview:

- 2017.10.10: "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

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-220w-24vdc-t-1m0-ds01o44-738
power-supply vout-24V-9A-220W for-OsTech-OEM
subd9-plug-for-ds01-o44-devices, vin-90~230AC"