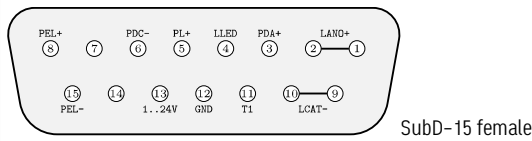


Type: ds01-la0.3v08-pa1.5v14-o4400-noise-v0-760



- Laser max.: 300mA, 8V
- TEC max.: 1.5A, 14V
- noise-reduced-version
- trise-fall < 25us (optional < 5us)
- Supply: 24VDC ± 10%, max. 1.4A
- 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

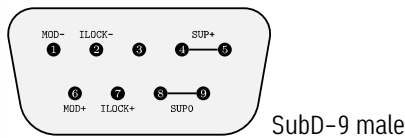
**Laser & Peltier Connector**



PIN.No	Abbr.	Function
1;2	LANO+	Laser Diode Anode (+)
3	PDA+	Photo Diode Anode (+) <sup>1)</sup>
4	LLED	Laser Active LED – Anode (+). 5V over 470R, v.s. GND
5	PL+	Pilot Laser (+), v.s. GND
6	PDC-	Photo Diode Cathode (-) <sup>1)</sup>
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.
15	PEL-	Peltier element (-)

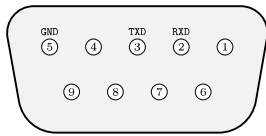
<sup>1)</sup> Photodiode inputs are free floating; they are internally clamped with 10kΩ; LPCA – command measures the voltage over this resistor; it can measure max. 4V, i.e. I<sub>max</sub>. 400μA->4V; you may freely increase this range by externally adding a resistor.

**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**



SubD-9 female

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

PIN No	Ahhr
2	RXD
3	TXD
5	GND

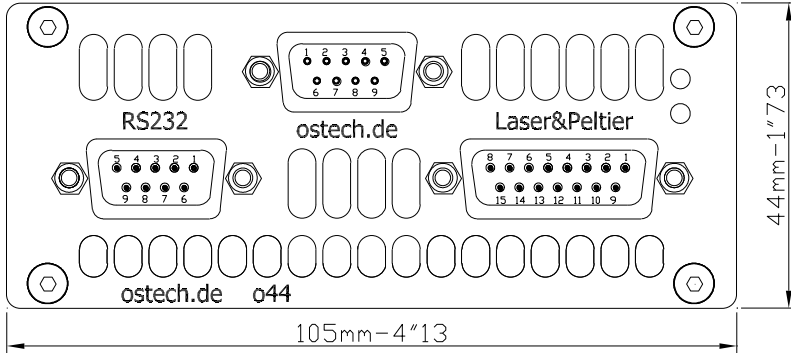


fig: ds01-Rear depth 160mm-6.3

**Revision overview:**

23.01.2017: "v0" - version 0 is setup new, derived from type 617

**References:**

- <http://www.ostech.de/de/produkte/lasertreiber/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-90w-24vdc-oem-82  
power-supply vout-24V-3.8A-90W for-OsTech-OEM  
subd9-plug-for-ds01-o44-devices, vin-90~230AC"