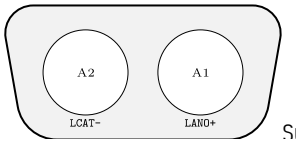
Type: ls11-la35v60-t19205b-v3-853

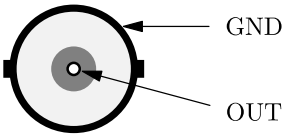
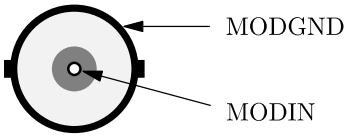
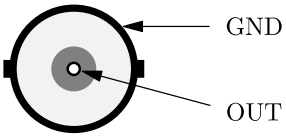
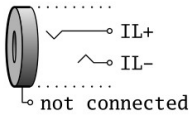
Laser max.: 35A, 60V
trise, tfall < 30µs
supply voltage: 100~230VAC - 50/60Hz
- External, Internal, Analog and Digital Modulation
- Current Monitor
- Bias Current option
- Pilot Laser Supply
- External Fan Support
- optional additional TEC-stages
- including current sequencer

2W2 Laser Connector

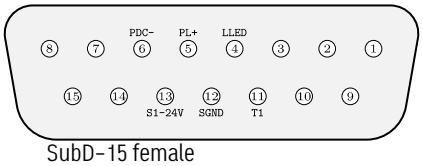


SubD2W2-female

PIN. No	Abbr.	Function
A1	LANO+	Laser Diode Anode (+)
A2	LCAT-	Laser Diode Cathode (-)

TRIG-OUT Connector	AMOD/DMOD-IN Connector	MOD-OUT Connector	Interlock Connector
			
BNC-Socket, TTL- 0-2,0V → low 2,5V-5,0V → high	BNC-Socked Input-Impdanz 10kOhm Digital Modulation with TTL-Pegel Analog Mod. 0-4[V] => 0-Imax[A]	BNC-Socked, current monitor 0-Imax[A] -> 0-4[V] Take care for laser isolation if you connect GND potential to an oscilloscope f.e.	Jack Connector 3.5mm Laser runs only if closed (ca. 5mA over 2V -> R <= 400R)

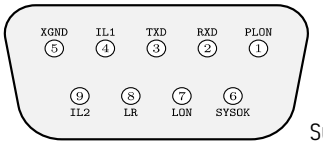
Support Connector



SubD-15 female

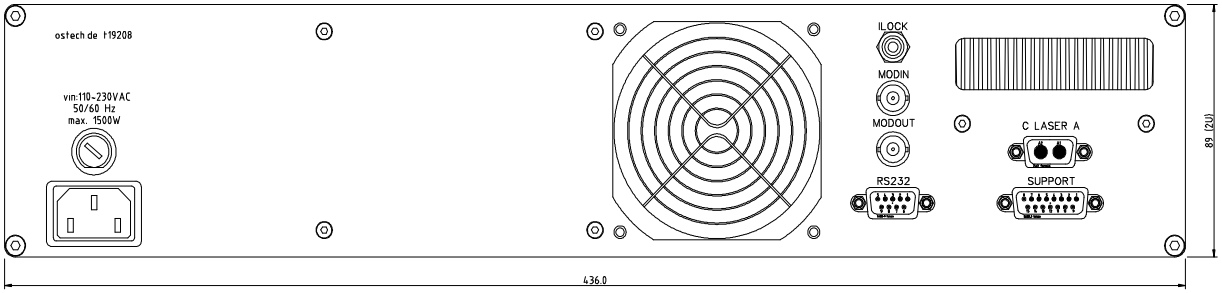
PIN.No	Abbr.	Function
4	LED	Laser-RUN LED
5	PL+	Pilot Laser+, vs. GND
6	PDC-	Photo-Diode Cathode, vs. GND
11	T1	Temperature Sensor Input, default ntc10kΩ, vs. GND
12	GND	Common Ground
13	S1..24V	1..24V Supply, max. 800mA, suppor for fan etc., vs. GND

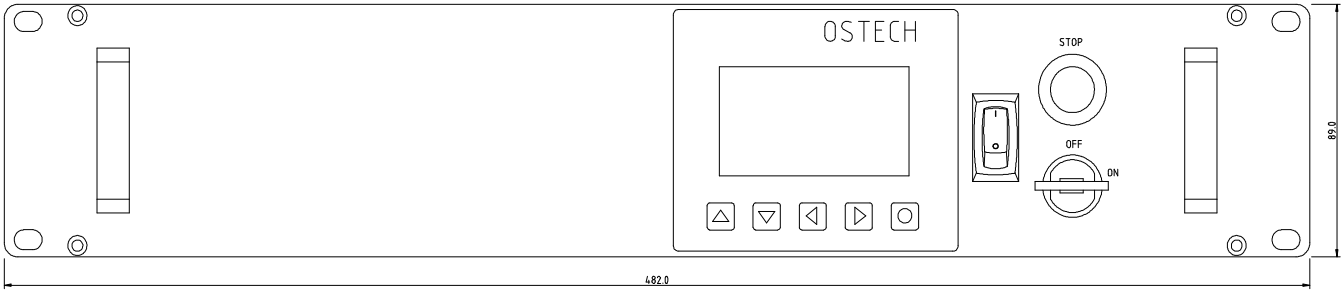
Control and RS232 (isolated Interface)



SubD-9 female

PIN.No	Abbr.	Function
1	PLON	Pilot Laser ON if TTL-High
2	RXD	RS232 RX
3	TXD	RS232 TX
4	IL1	Interlock 1 has to be closed to XGND
5	XGND	External GND
6	SYSOK	System OK output +5V over 4k7
7	LON	Laser ON (ready signal) TTL High
8	LR	Laser Run (start signal) TTL High
9	IL2	Interlock 2 has to be closed to XGND





Revision overview:

2019-05-27: "v0"- first derivation setup
2024-10-11: „v1“- new housing code and ds01xx board

References:

http://www.ostech.de/en/products/laser-drivers/ds11-t192
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 1.5m