

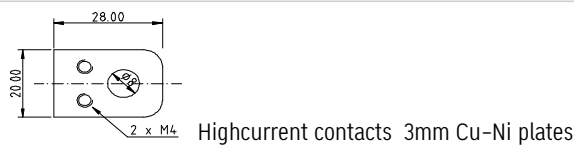
Laser Controller

Type: ls11-la32v48-t19203g-533

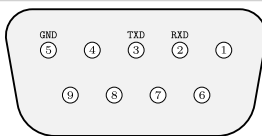
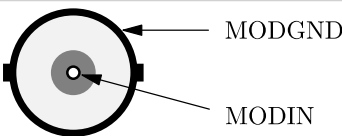
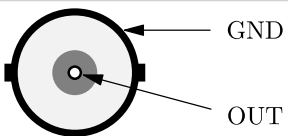
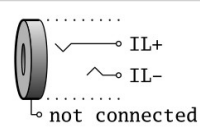


- Laser max.: 32A, 48V
- trise, tfall < 30µs
- supply voltage: 100~230VAC – 50/60Hz
- External, Internal, Analog and Digital Modulation
- Current Monitor
- Bias Current option
- Pilot Laser Supply
- External Fan Support
- TTL Trig. Out Signal

Laser Connector



Contact No	Name	
1	ANODE	Laser Anode
2	CATHODE	Laser Cathode

RS232 Connector	AMOD/DMOD-IN Connector	MOD-OUT Connector	Interlock Connector
			
SubD-9 female Standard RS232-Connector 9600-Baud-8N1 (No Null-Modem Cable !)	BNC-Socket Input-Impdanz 10kOhm Digital Modulation with TTL-Pegel Analog Mod. 0-4[V] => 0-Imax[A]	BNC-Socket, 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)

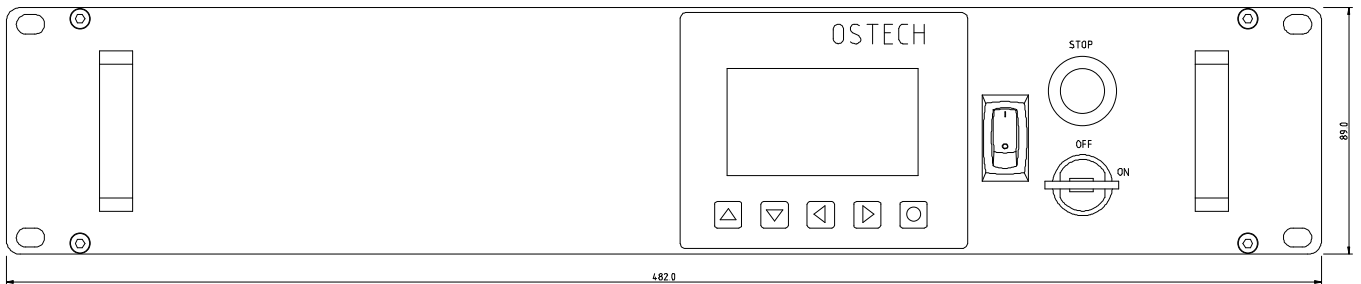
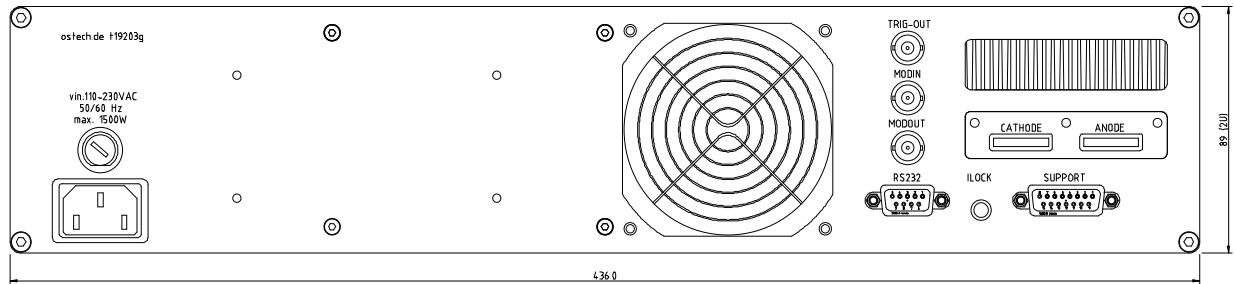
TRIG-OUT Connector



Support Connector

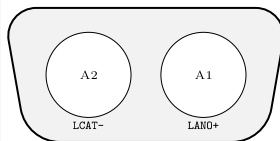
PIN.No	Abbr.	Function
4	LED	Laser-RUN LED
5	PL+	Pilot Laser+, vs. GND
6	PDC-	Photo-Diode Cathode, vs. GND
11	T1	Temperature Sensor Input, default ntc10kΩ, vs. GND
12	GND	Common Ground
13	S1..24V	1..24V Supply, max. 800mA, support for fan etc., vs. GND

Laser Controller



Alternative Laser Connectors

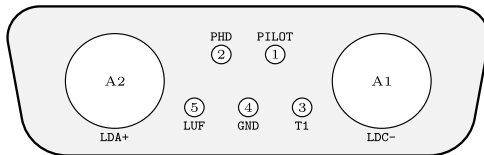
2W2 Laser Connector Is11-la32v48-t19203b-533



SubD2W2-female

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

7W2 Laser Connector Is11-la32v48-t19203d-533



SubD-7W2, female Type as viewed from backside

PIN.No	Abbr.	Function
A1	LDC-	Laser Diode Cathode
A2	LDA+	Laser Diode Anode
1	PILOT	Pilot Laser Supply
2	PHD	Photo Diode Cathode vs. GND
3	T1	Temp. Sensor 1 vs. GND
4	GND	
5	LUF	Supply 800mA 2..24V for fan vs. GND

Revision overview:

2021-01-01: "v2"- MODOUT BNC-socket added, new power stage, interface 2nd edition
 2024-01-01: „v4“- industrial interface removed, new laser plug options

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
- kab-24pol-0,34qmm-subd25m-oe-1.5m-674
cable 24polx0.34qmm, max-4A/pin, SUBD-25 to open ends, length-1m5