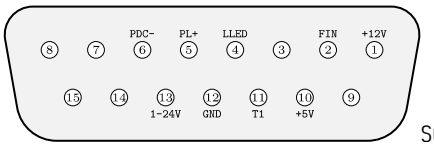
Laser Controller

Type: ls11-la32v40-t19203b-v3-321



Laser max.: 32A, 40V
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

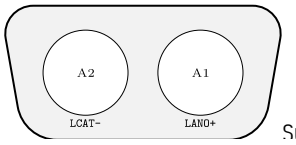
Support Connector



SubD-15 female

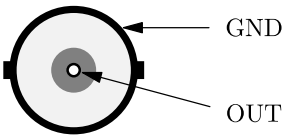
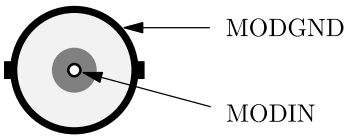
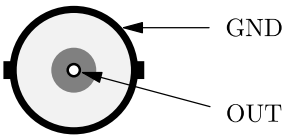
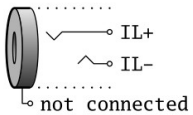
PIN.No	Abbr.	Function
1	+12V	Fibre Sensor Supply
2	FIN	Fibre Sensor Input
4	LLED	Laser ON LED Anode (+) ILED ca.5mA, vs. GND
5	PL+	Pilot Laser (+), vs. GND
6	PDC-	Photo Diode Cathode (-) Input
10	+5V	Photo_Amp Supply 5V
11	T1	Temperature Sensor Input, vs. GND (default NTC10k)
12	GND	Common Ground
13	S1-24V	1-24V adjustable Supply, max. 500mA, vs. GND, for fan etc.

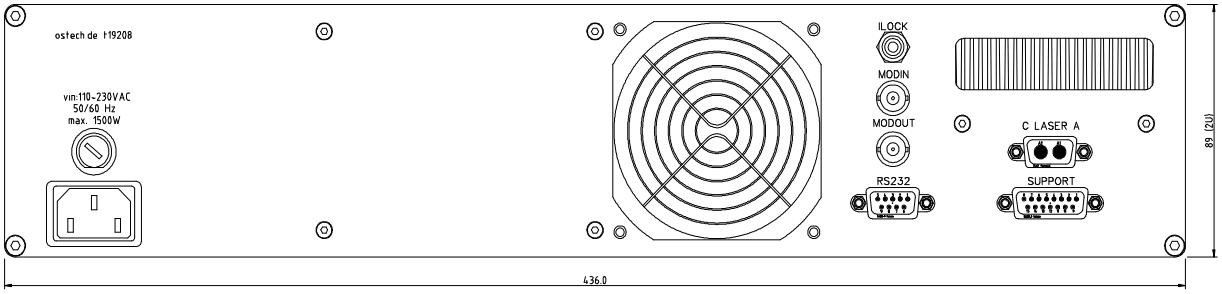
Laser Connector

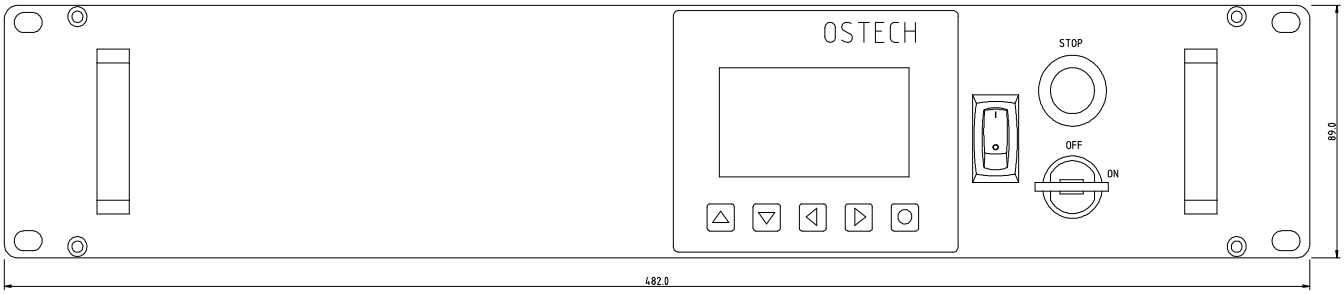


SubD2W2-female

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)





Revision overview:

2016-01-06: „v1“ - housing has changed to 19222, max. laser current limited from 36A to 35A
2016-03-14: „v2“ - max. laser current limited from 35A to 32A
2024-10-11: „v3“- 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
- kab-lpa08-16pol-subd15m-oe-1.5m-39
  cable 16x0.35qmm / subd15-Gold-6,5A per pin to open end / length-1m5
- kab-la40-2pol-2W2male-oe-1.5m-286
  cable 2x4qmm / imax-40A subd-2W2m-male to open-ends / length-1m5