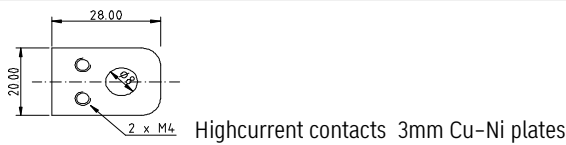


Type: ls11-la50q100v60-t19205g-1163



Laser max.: cw-50A qcw-100A-20%-500µs 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
- rev 3

Laser Connector



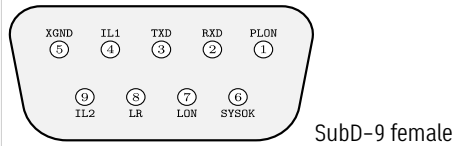
Contact No	Name	
1	ANODE	Laser Anode
2	CATHODE	Laser Cathode

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-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)

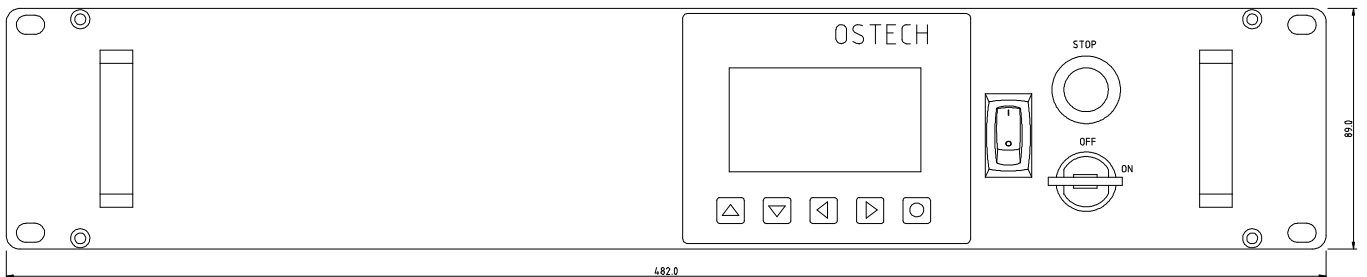
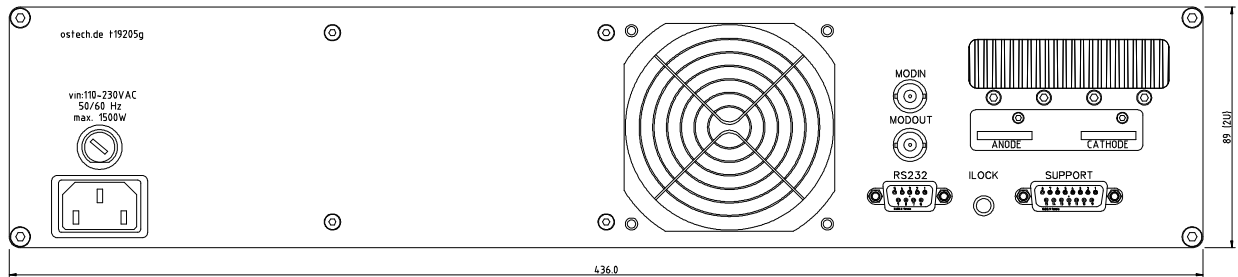
Support Connector

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, support for fan etc., vs. GND

Control and RS232 (isolated Interface)



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:

2026-08-22: "v0" – first derivation from 880

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