

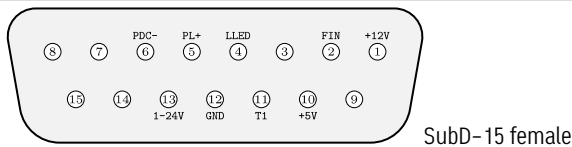
Laser Controller

Type: ls11-la32v40-t19222-v2-321



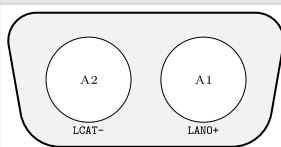
Laser max.: 32A, 40V
 trise, tfall < 30µs
 supply voltage: 100~230VAC - 50/60Hz
 - External, Internal, Analog and Digital Modulation
 - Current Monitor
 - Bias Current option
 - Pilot Laser Supply
 - External Fan Support
 - optional additional TEC-stages

Support Connector



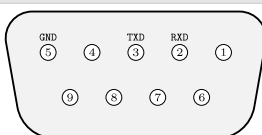
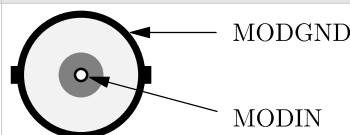
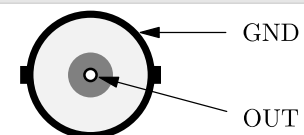
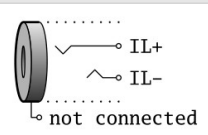
| PIN.No | Abbr. | Function |
|--------|--------|--|
| 1 | +12V | Fibre Sensor Supply |
| 2 | FIN | Fibre Sensor Input |
| 4 | LLED | Laser ON LED Anode (+) ILED ca.5mA, vs. GND |
| 5 | PL+ | Pilot Laser (+), vs. GND |
| 6 | PDC- | Photo Diode Cathode (-) Input |
| 10 | +5V | Photo_Amp Supply 5V |
| 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



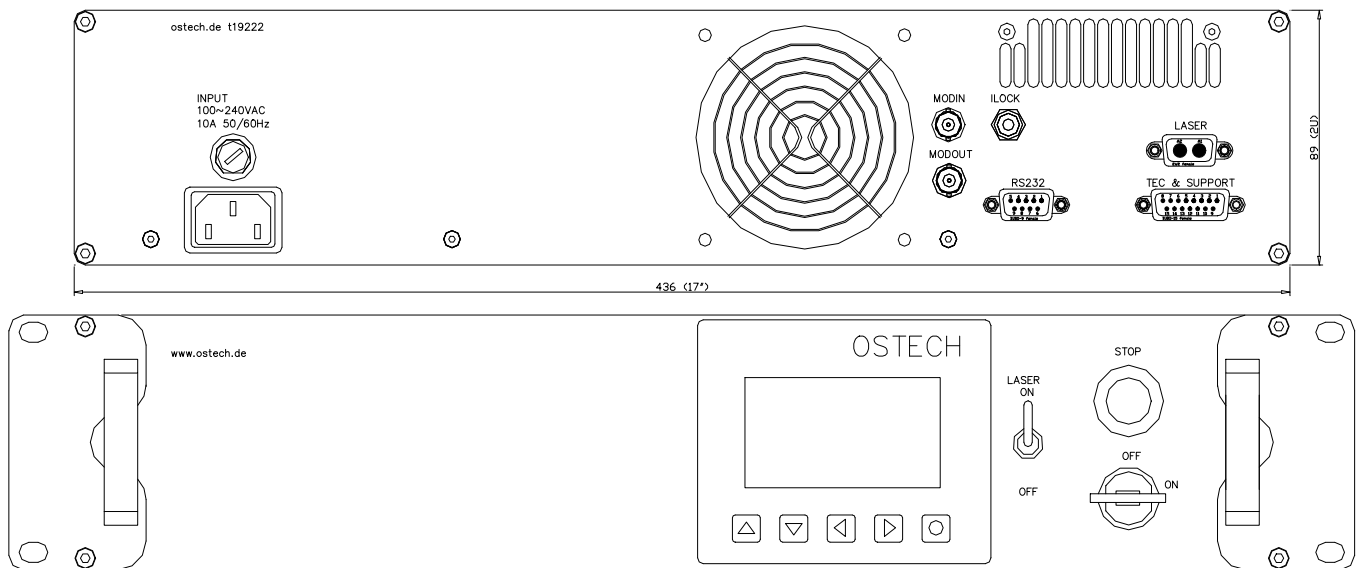
SubD2W2-female

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

| RS232 Connector | MOD/DMOD-IN Connector | MOD-OUT Connector | Interlock Connector |
|---|---|---|--|
|  <p>SubD-9 female Standard RS232-Connector (No Null-Modem Cable !)</p> |  <p>BNC-Socketed Input-Impdanz 10kOhm Digital Modulation with TTL-Pegel Analog Mod. 0-4[V] => 0-Imax[A]</p> |  <p>BNC-Socketed, current monitor 0-Imax[A] -> 0-4[V] Take care for laser isolation if you connect GND potential to an oscilloscope f.e.</p> |  <p>Jack Connector 3.5mm Laser runs only if closed (ca. 5mA over 2V -> R <= 400R)</p> |



Laser Controller



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

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