

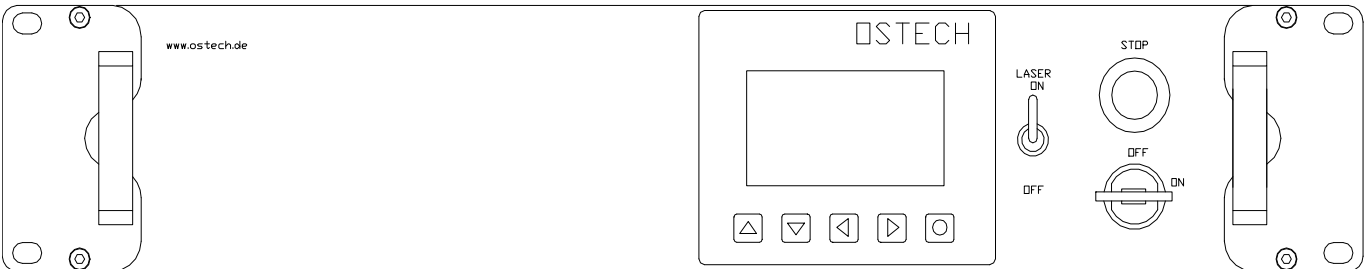
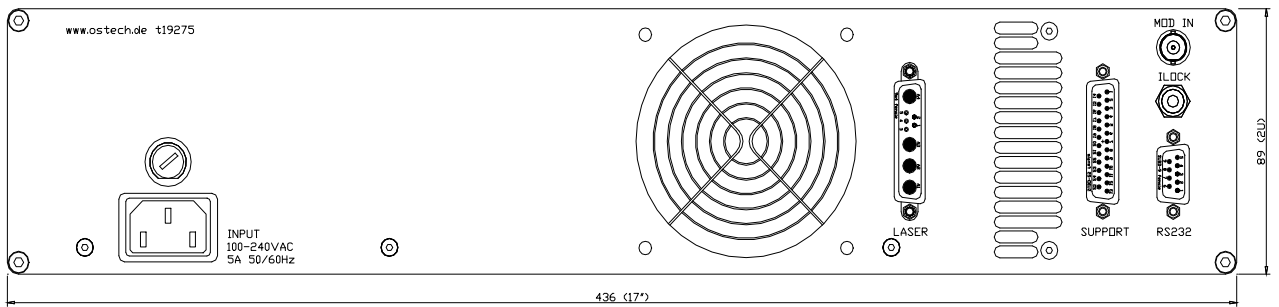


# Laser Driver

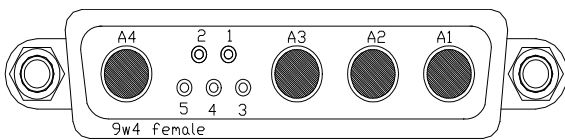
Type: ls11-la64v24-t19275-v0-532



Laser Current max.: 64A  
 Laser Voltage max.: 24V  
 trise, tfall < 29µs  
 Vin: 100~230VAC - 50/60Hz  
 Analog or Digital Modulation  
 Bias Current option  
 Pilot Laser Supply  
 External Fan Support



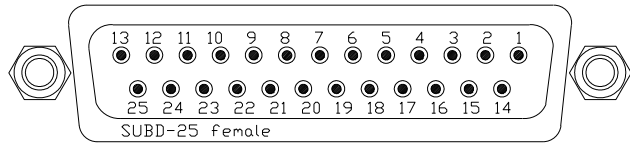
## Laser Connector



PIN.No	Abbr.	Function
A1,A2	LDC-	Laser Diode Cathode (-)
A3,A2	LDA+	Laser Diode Anode (+)
4	GND	Common GND
3	TSEN	Temp. Sensor (vs. GND)
5	LUF	external supply for fan etc. 800mA 2..24V vs GND
1	PILOT	Pilot supply 5V
2	RES	Reserved

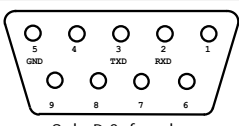
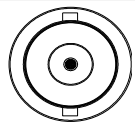
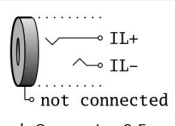
# Laser Driver

## Support Connector - Isolated Industrial Interface



Sub-D25 female Type as seen from backside  
isolated RS485 or USB optional

PIN.No	Abbr.	Function
1	XO_ILOCK	Interlock Output max. 12V 100mA
2	XO_LON	Laser On - TTL- Output High = Laser On (pull-up resistor at 5V with 270R for LED f.e.)
3	XO_SYSOK	System Ok - TTL-Output High = Laser, Temp. & System OK (pull-up resistor at 5V with 270R)
5	X5VREF	External Reference 5V +-1% max. 20mA - as potentiometer supply f.e.
6	XSUP-12	External Supply Output -12V max. 250mA for free usage
7	XSUP+12	External Supply Output+12V max. 250mA for free usage
8	XSUP5V	External Supply Output 5V max. 250mA for free usage
9	XI_MODE0	TTL-Input - multipurpose mode select input
10	XI_MODE1	TTL-Input - multipurpose mode select input
11	XI_LaserOff	TTL-Input - Laser ON - TTL-Low = Laser On - internally pulled up
12	optional SUP_FAN	Universal Supply - 2V..22V up to 800mA for external Fan etc. (! not isolated)
13	optional SUP_GND	Universal Supply GND (! not isolated)
14	XI_ILOCK	Interlock Input - has to be connected to XO_ILOCK
15	MOD_DMOD	Modulation Digital Input TTL
16	MOD_GND	Modulation GND
17	MOD_ANALOG	Modulation Analog Input 0-4V → 0A-I <sub>max</sub> (R <sub>i</sub> =10kOhm for 0-10V signal put 15kOhm in series)
18	XTX	RS232-Tx
19	XRX	RS232-Rx
20,21	XGND	Xternal GND
4,22,23,24,25	n.c.	Reserved pins, do not connect!

RS232 Connector	AMOD/DMOD Connector	Interlock Connector
 <p>Sub-D 9, female</p>	 <p>BNC Coaxial Connector</p>	 <p>Jack Connector 3.5mm</p>
Standard RS232-Connector connected to PC (No Null-Modem Cable !)	Input-Impdanz 10kOhm Digital Modulation with TTL-Pegel Analog Modulation 0-4[V] => 0-I <sub>max</sub> [A]	Interlock - Laser runs only if closed (ca. 5mA over 2V → R <sub>Interlock</sub> ≤400R)