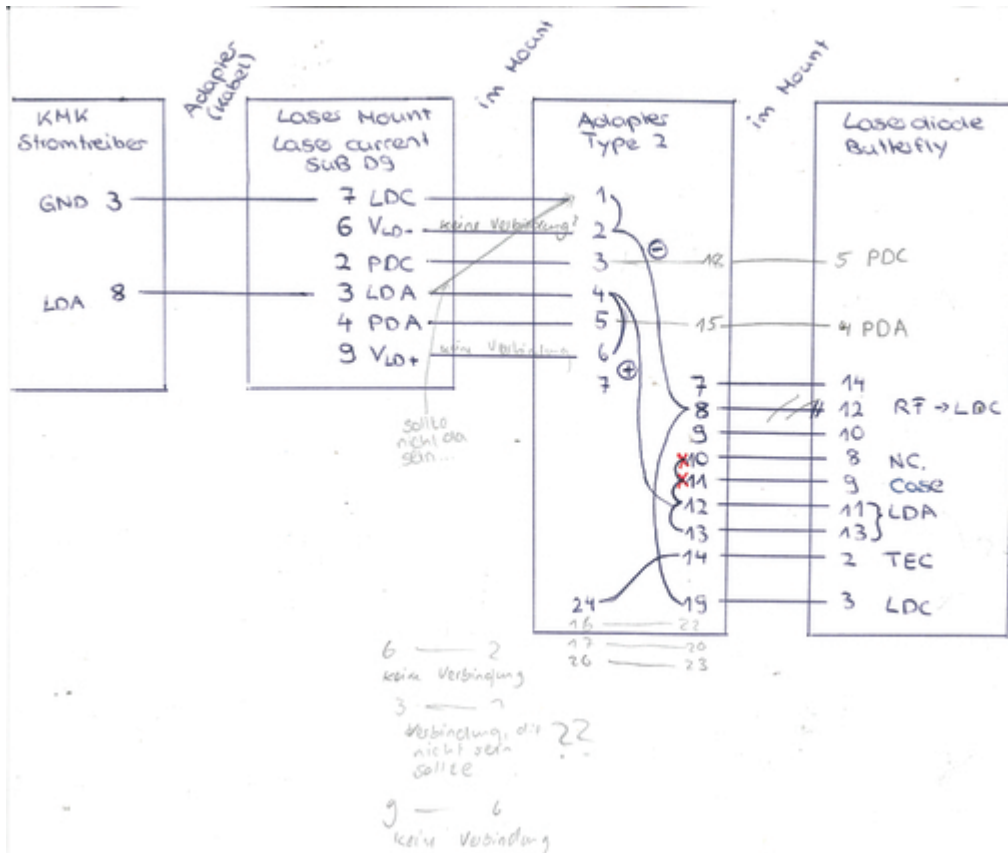
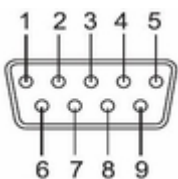


Pin assignment

Overall structure



Sub D-9 connectors



Laser driver

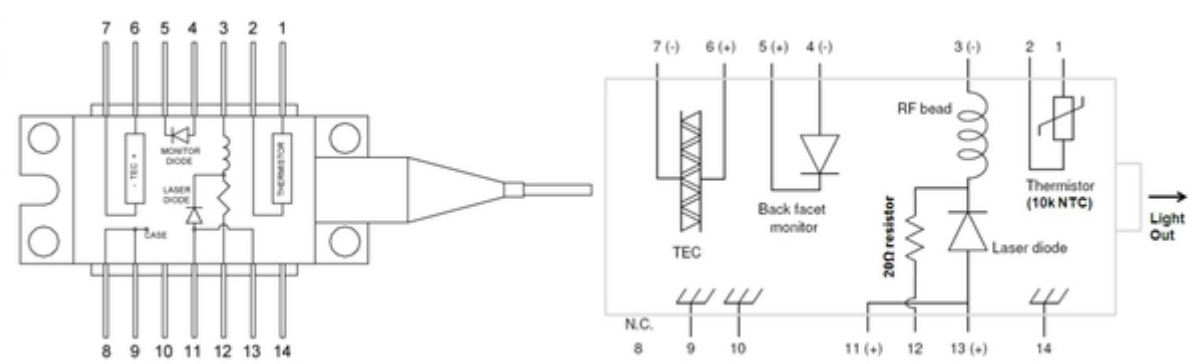
- laser diode connector (LD): D-type Female (Buchse)
- TEC Connector (TEC): D-type Male (Stecker)

Laser Mount

- laser diode connector (LD): D-type Female (Buchse)
- TEC Connector (TEC): D-type Male (Stecker)

Pin	Laser driver LD	Laser Mount LD	Laser driver TEC	Laser Mount TEC
1	-	Interlock and Status Pin (LDC Specific)	-	TEC Lockout (+)
2	-	Photodiode Cathode PDC	NTC1	+Thermistor TH+
3	LD_GND	Laser Diode Anode LDA	NTC2	-Thermistor TH_GND
4	-	Photodiode Anode PDA	Peltier+	TEC (+)
5	-	Interlock and Status Return	Peltier-	TEC (-) and TEC Lockout (-)
6	-	Laser Diode Voltage (-) VLD(-)	Peltier+	-
7	-	Laser Diode Cathode LDC	-	-
8	LD-anode	-	Peltier-	-
9	-	Laser Diode Voltage (+) VLD(+)	-	-

Pin to Connector Configuratuion for Typ 2 with Bias-T



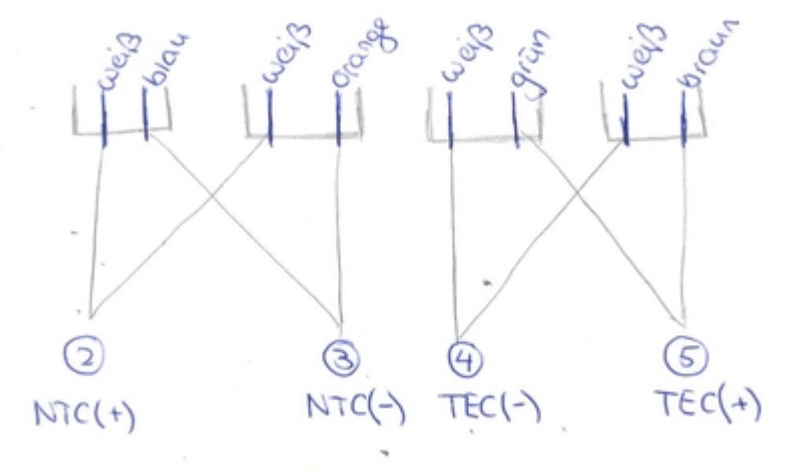
Pin	Laser Mount	Laserdiode
1	Thermistor Ground	Thermistor
2	Thermistor	Thermistor
3	LD Cathode	Laser Cathode DC Bias (-)
4	PD Anode	PD Anode (-)
5	PD Cathode	PD Cathode (+)
6	TEC Anode	TEC +
7	TEC Cathode	TEC -
8	Case	N.C.
9	Case	Package
10	N.C.	Package
11	LD Anode	Laser Anode (+)
12	Modulation Input	Cathode (RF input)
13	LD Anode	Laser Anode (+)
14	N.C.	Package

Cables

Meerstetter - Laser Mount TEC

- blue
- 3 m
- CAT6-cable
- with ferrite cores
- outer shield connected to GND of Meerstetter

colour of the cable	white	white	orange	blue	green	brown	white	white	outer shield
connected to Pin	2		3		4		5		9
	NTC (+)		NTC (-)		TEC (+)		TEC (-)		GND Meerstetter



Adapter for Lasermount & cable to Laserdriver

- with a SMA connector for the Photodiode inside the Butterfly housing

describition in Lasermount	PD-cathode	LD-anode	PD-anode	LD-GND
Lasermount - Pin	2	3	4	7
colour of cable	orange	red	yellow	green
Laserdriver - Pin		8		3
SMA	outer		pin	



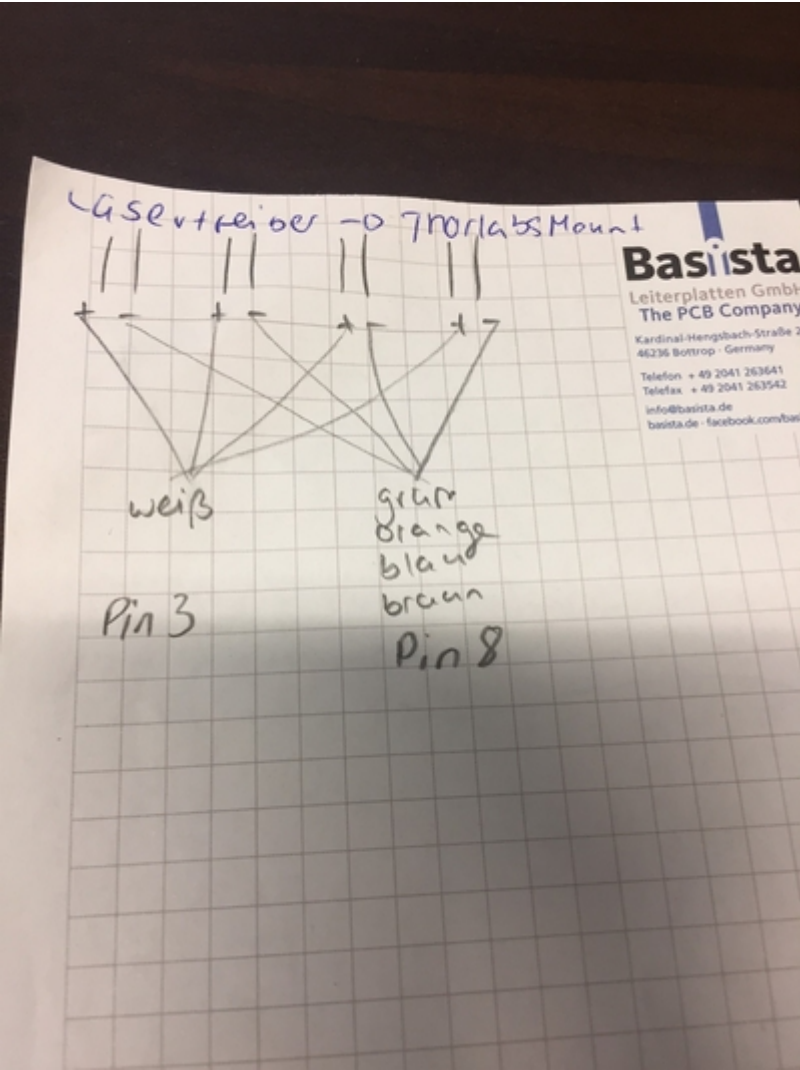
Laserdriver - Adapter for Lasermount

- orange
- 3 m
- CAT6-cable

- with ferrite cores
- outer shield connected to GND of the Laserdriver

	LD-GND				LD-anode				GND Laserdriver
colour of the cable	white	white	white	white	green	orange	brown	blue	outer shield
connected to Pin	3				8				6





Connections Overview

Laser Diode Component	Polarity	Laser Diode Pin	Thorlabs Connector	Pin	Meerstetter Connector	Meerstetter Pin	Adapter PD Thorlabs Side	Adapter PD SMA Socket	Adapter PD Laser Driver Side	Laser Driver
Thermistor		1	TEC-Driver	3		3				
		2		2		4				
TEC	+	6		4		10				
	-	7		5		9				
Photo Diode	Anode	4	LD-Driver	4			4	pin		
	Cathode	5		2			2	shielding		
Laser Diode	Anode	11, 13		3			3		8	8
	Cathode	3		7			7		3	3

The cables connect the pins with the same numbers on both sides(Meerstetter: 2,3,4,5; Laser Driver: 3&8).

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Last update: **2017/10/12 16:07**

