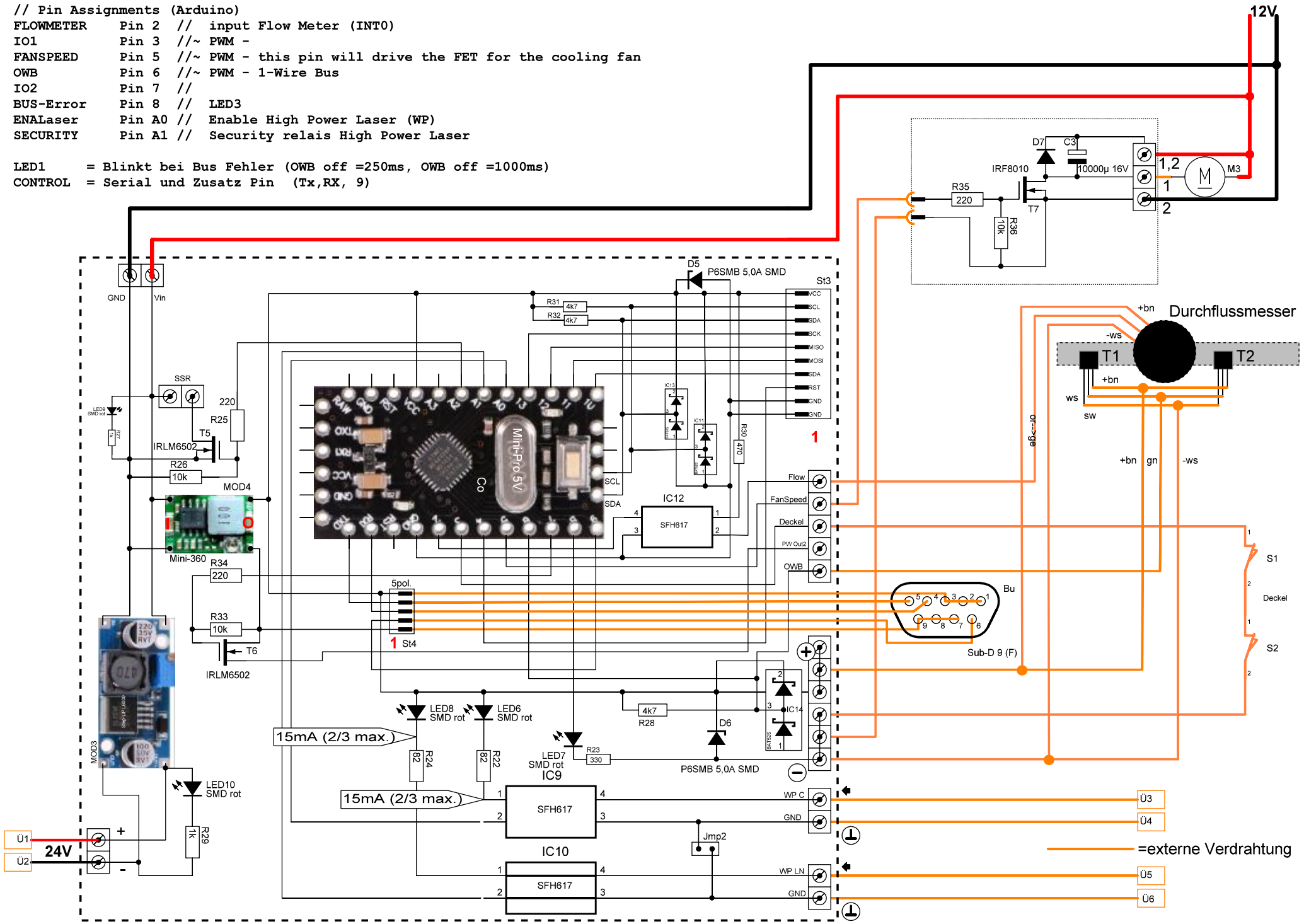
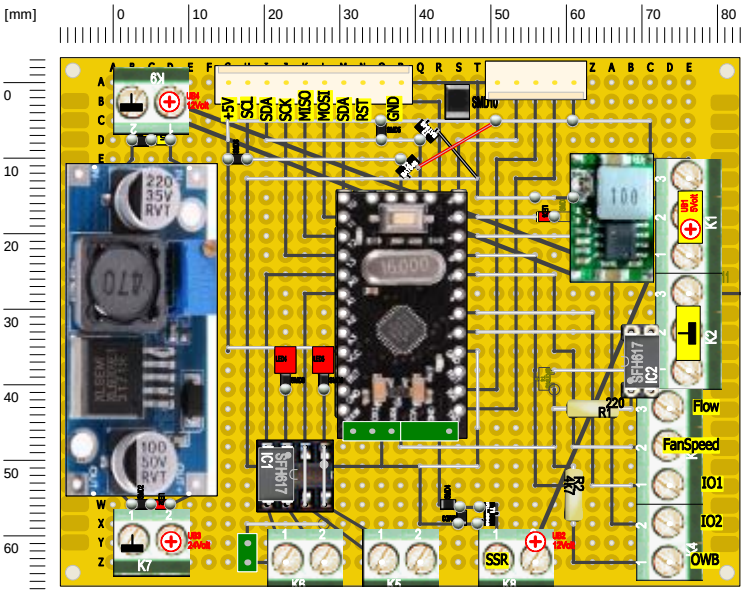
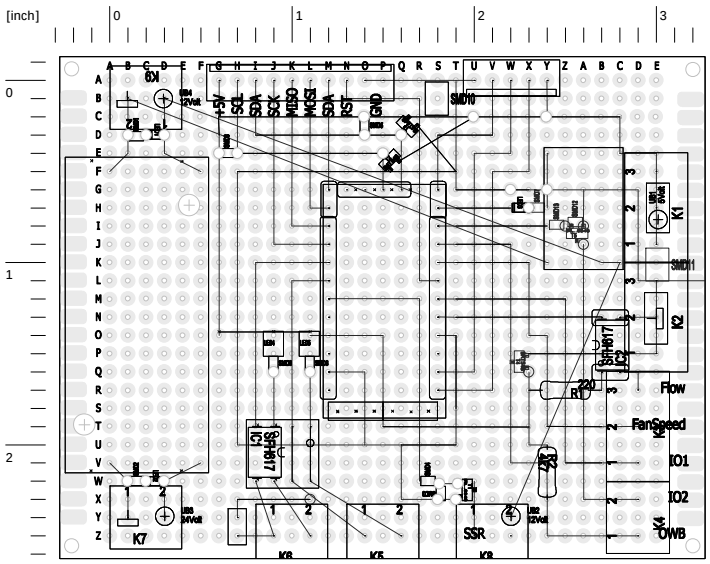
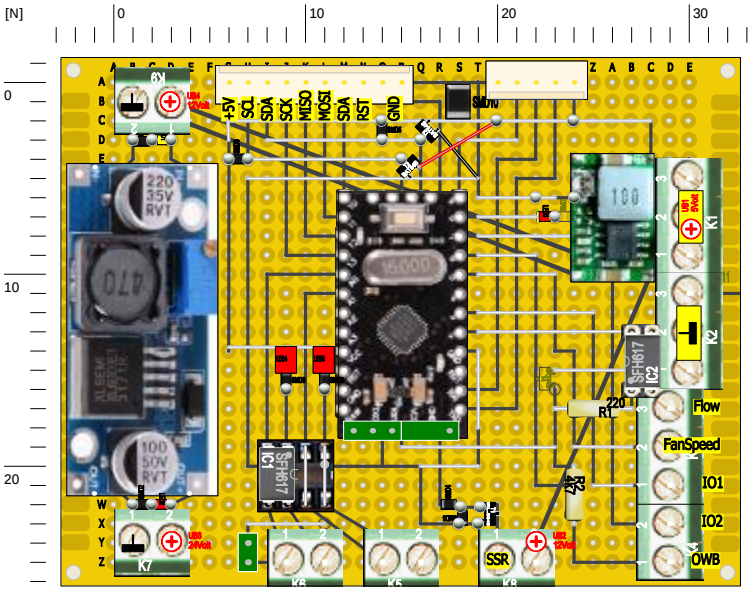
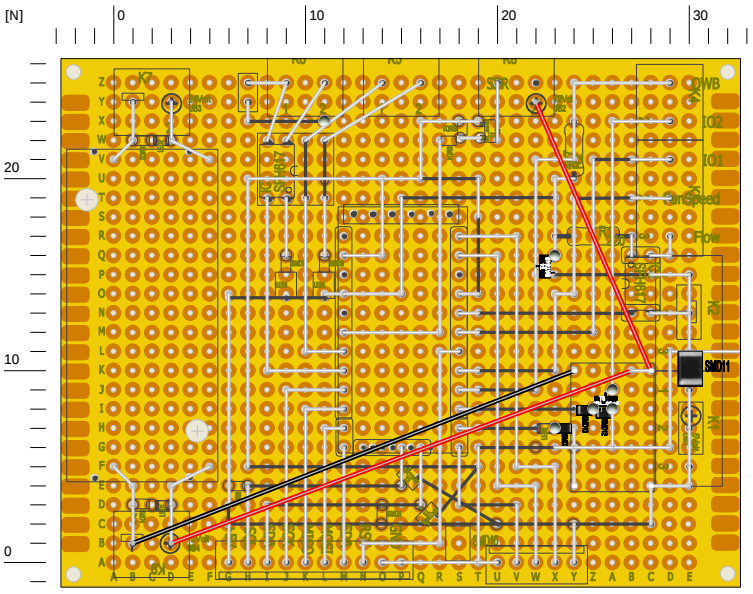
```
// Pin Assignments (Arduino)
FLOWMETER     Pin 2  //  input Flow Meter (INT0)
IO1           Pin 3  //~ PWM -
FANSPEED      Pin 5  //~ PWM - this pin will drive the FET for the cooling fan
OWB           Pin 6  //~ PWM - 1-Wire Bus
IO2           Pin 7  //
BUS-Error     Pin 8  //  LED3
ENALaser      Pin A0 //  Enable High Power Laser (WP)
SECURITY      Pin A1 //  Security relais High Power Laser

LED1      = Blinkt bei Bus Fehler (OWB off =250ms, OWB off =1000ms)
CONTROL   = Serial und Zusatz Pin  (Tx,RX, 9)
```





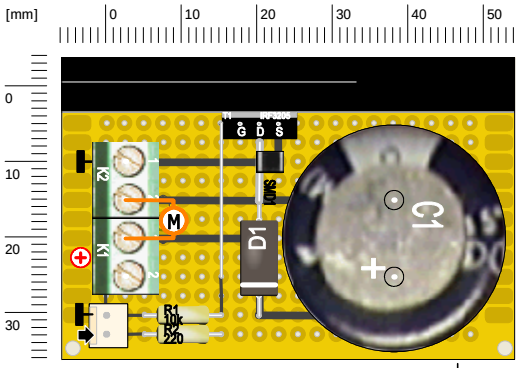


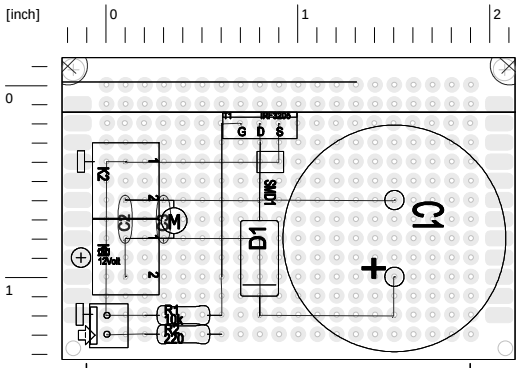


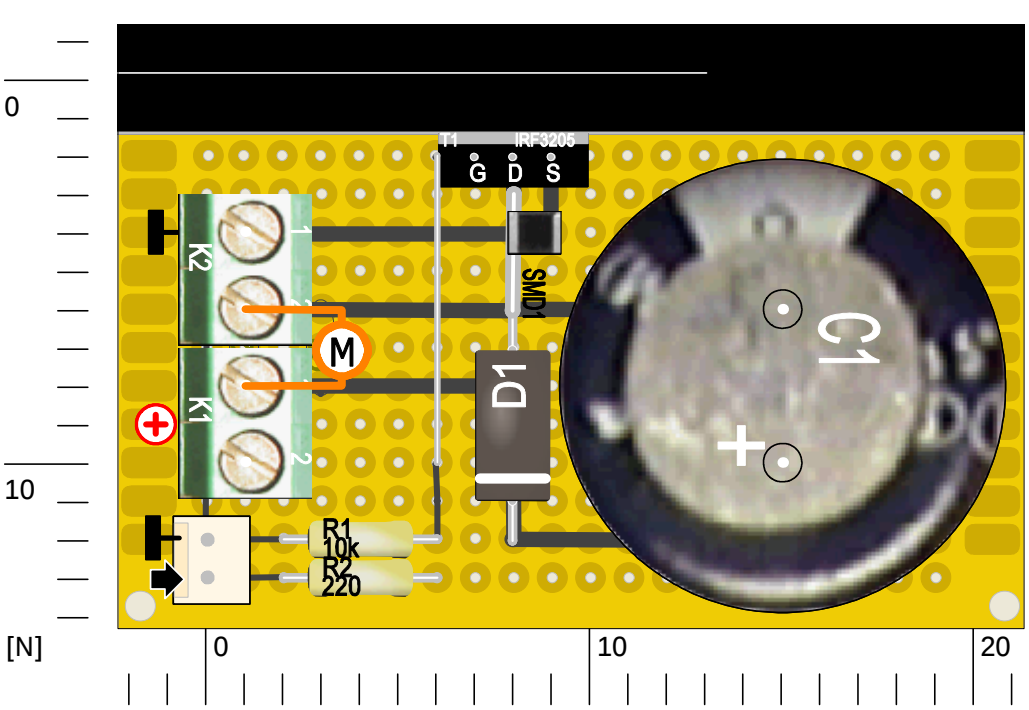


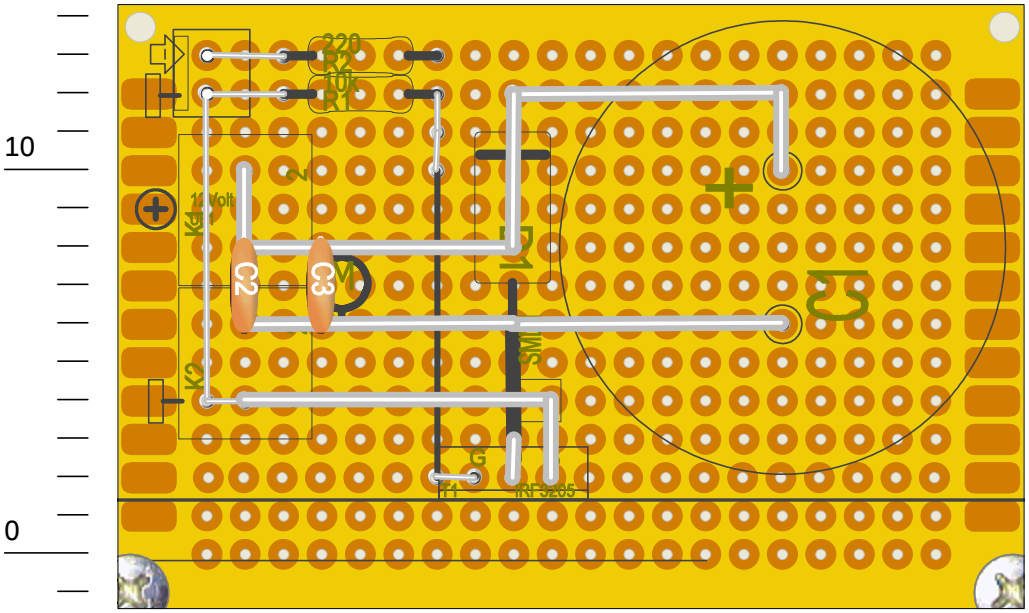
Projekt: lasercutterplatinenV5 [LasercutterController]
Abmessungen: 90,00 x 70,00 mm

14.10.2020
23:11:24
Blatt 1 / 1



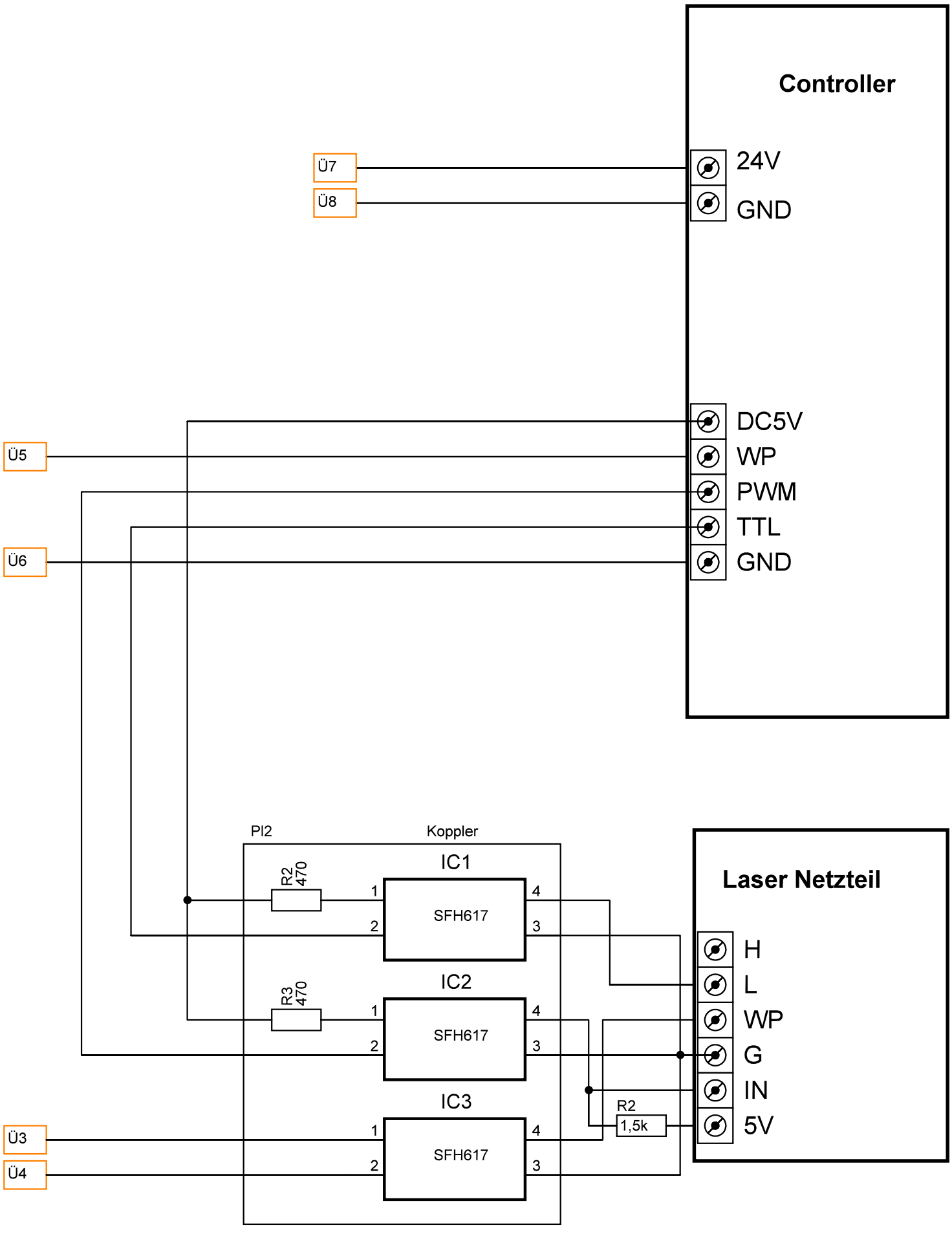


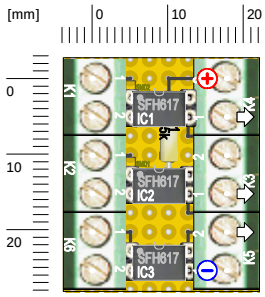


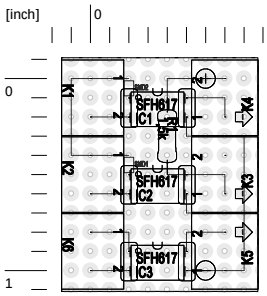


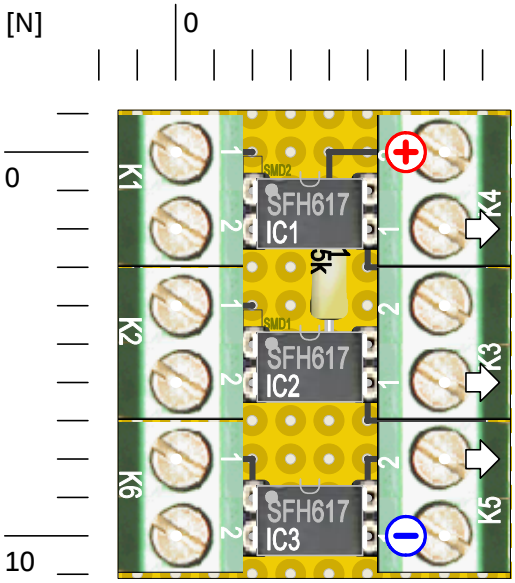
Projekt: lasercutterplatinenV5 [BreakOut FanSpeed]
Abmessungen: 60,00 x 40,00 mm

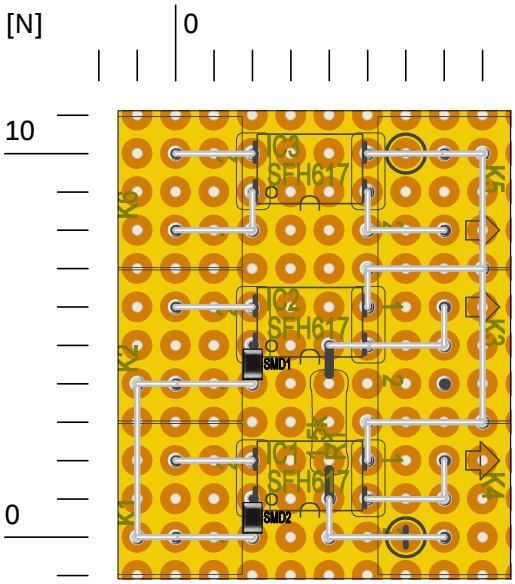
14.10.2020
23:11:44
Blatt 1 / 1


Controller
Ü7
Ü8
24V
GND
Ü5
Ü6
DC5V
WP
PWM
TTL
GND
PI2
Koppler
IC1
R2
470
1
2
SFH617
4
3
IC2
R3
470
1
2
SFH617
4
3
IC3
1
2
SFH617
4
3
R2
1,5k
Laser Netzteil
H
L
WP
G
IN
5V
Ü3
Ü4



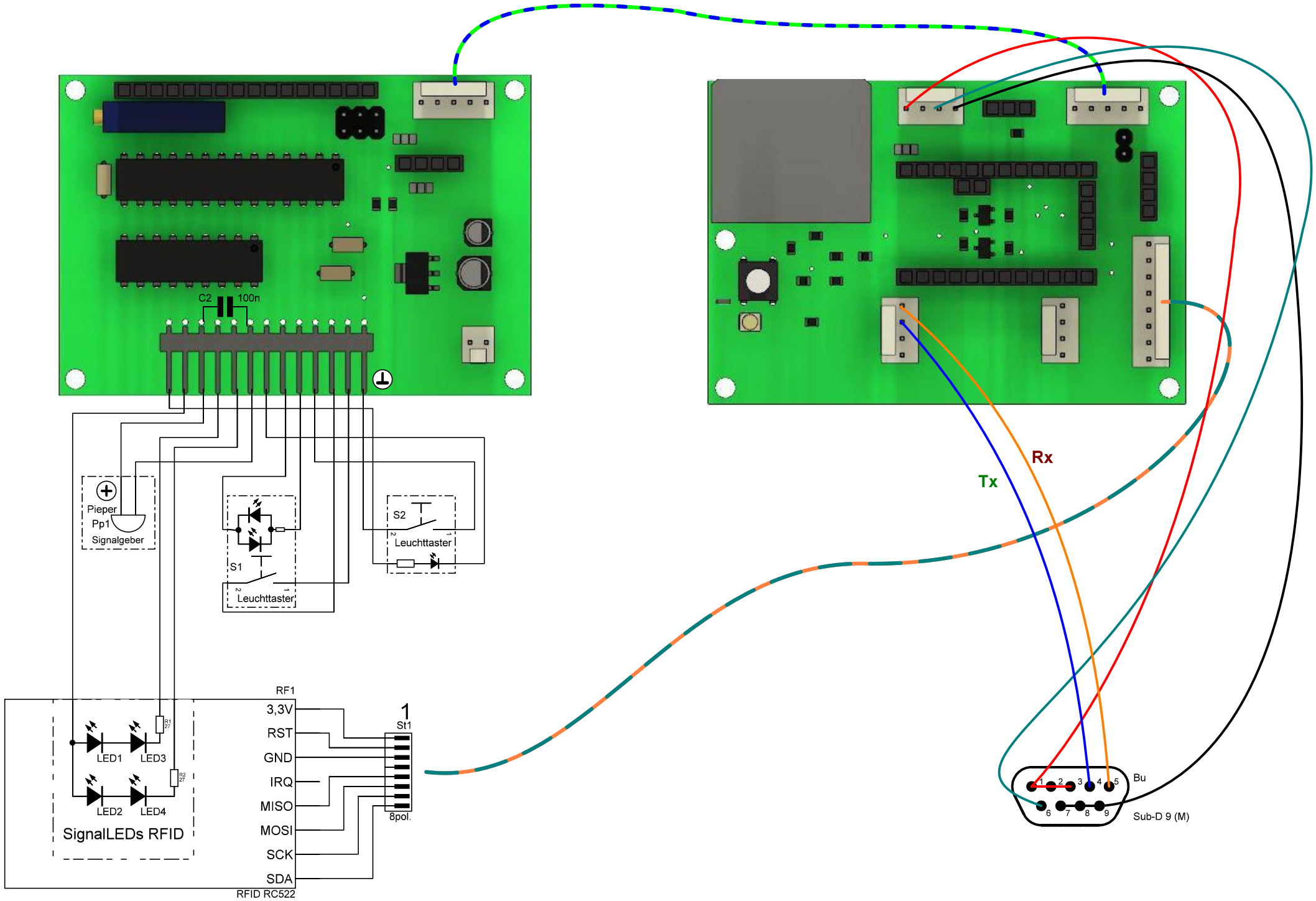


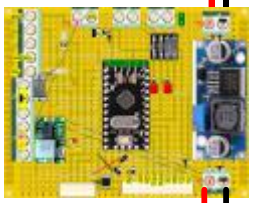




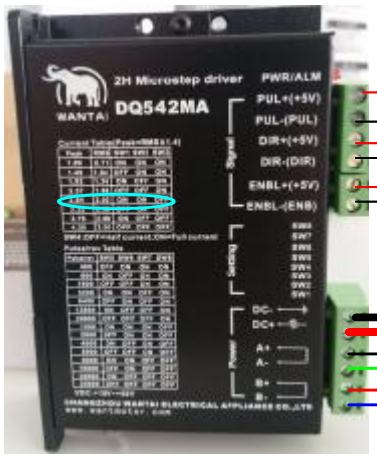
Projekt: lasercutterplatinenV5 [Koppler3R]
Abmessungen: 26,00 x 31,00 mm

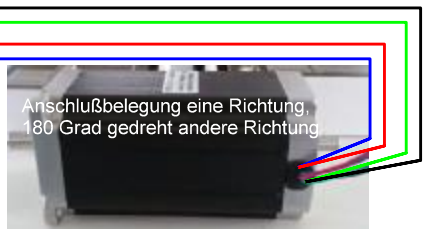
14.10.2020
23:12:34
Blatt 1 / 1

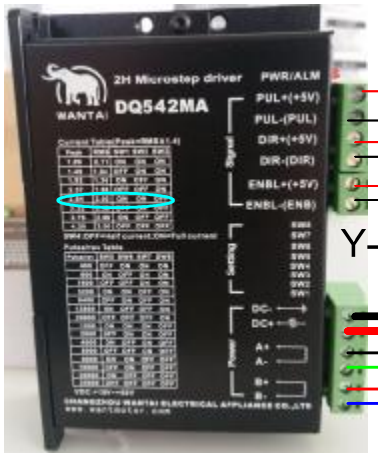

C2
100n
Pieper
Pp1
Signalgeber
S1
Leuchttaster
S2
Leuchttaster
LED1
LED3
LED2
LED4
SignalLEDs RFID
RF1
3,3V
RST
GND
IRQ
MISO
MOSI
SCK
SDA
RFID RC522
1
St1
8pol.
Rx
Tx
Bu
Sub-D 9 (M)



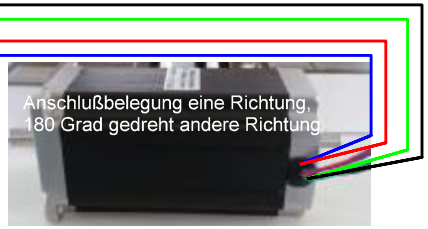
X-Achse

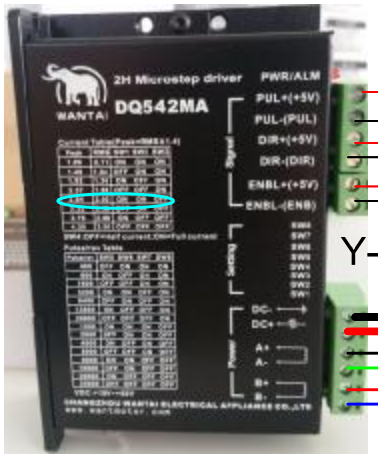




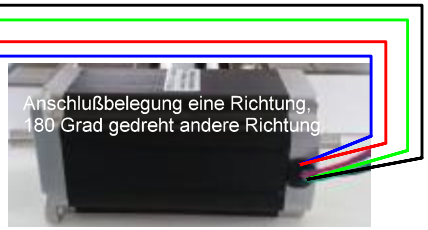


Y-Achse rechts





Y-Achse links

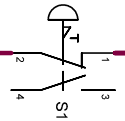


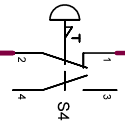
+ Z-Achse

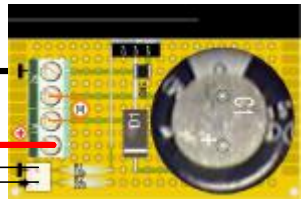
Motoren

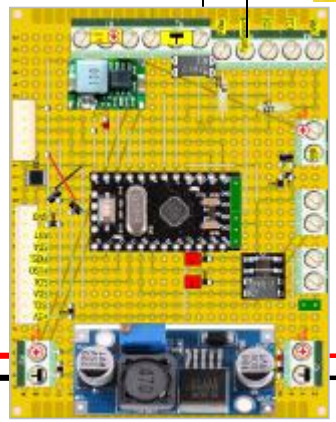
Motoren

...









LasercutterControllerMini