

	<b>sensor inputs</b>	gpio type	Kind of hardware				
	Lid front	switch	endstop switch				
	Lid back	switch	endstop switch				
	Lid psu	switch	endstop switch				
	waterflow in + liters	digital input	waterflow sensor				
	waterflow out	switch	Waterflow on off switch				
	Temprature basin	adc	thermistor				
	Temprature laser input	adc	thermistor				
	Temprature laser output	adc	thermistor				
	<b>user inputs (buttons)</b>						
	start cooldown	switch					
	standby for laser	switch	enable air assist & sucktion fan				
	Lid override	switch	on /off Switch on panel				
	<b>Outputs</b>						
	Laser enable	Digital output	Relay 5v + indicator light				
	230v compressor on	Digital output	Relay 5v				
	Air assist on	Digital output	Relay 5v	Air solenoid			
	air suction on	Digital output	Relay 5v				
	Waterpump cooling	Digital output	Relay 5v				
	waterpump tube	Digital output	Relay 5v				
	waterswitch	Digital output	Relay 5v				
	<b>screen</b>						
	lcd screen	i2c sda					
	lcd screen	i2c scl					
	rotary encoder knob	digital input					
	rotary encoder knob	2x digital input					

gpio								
0		uart				niet toegewezen		
1		uart						
2	pcf8574-i2c-io-expander	i2c sda1				encoder click	digital input	with pull up
3	pcf8574-i2c-io-expander	i2c scl1				encoder A	digital input	with pull up
4	lcd screen	i2c sda0				encoder B	digital input	with pull up
5	lcd screen	i2c scl0				Lid front	digital input	with pull up
6						Lid back	digital input	with pull up
7						Lid psu	digital input	with pull up
8						YF-S201 waterflow in sensor	digital input	with levelconverter
9						waterflow out switch	digital input	with pull up
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
26	temp basin	adc						
27	temp laser out	adc						
28	temp laser in	adc						