

Title		Laser Control Module	
Size	Number	Revision	
A4			
Date:	23-4-2012	Sheet of	
File:	P:\elektronika\112P11 Laser Control Module\Bsp1Bsp	4	

4

3

2

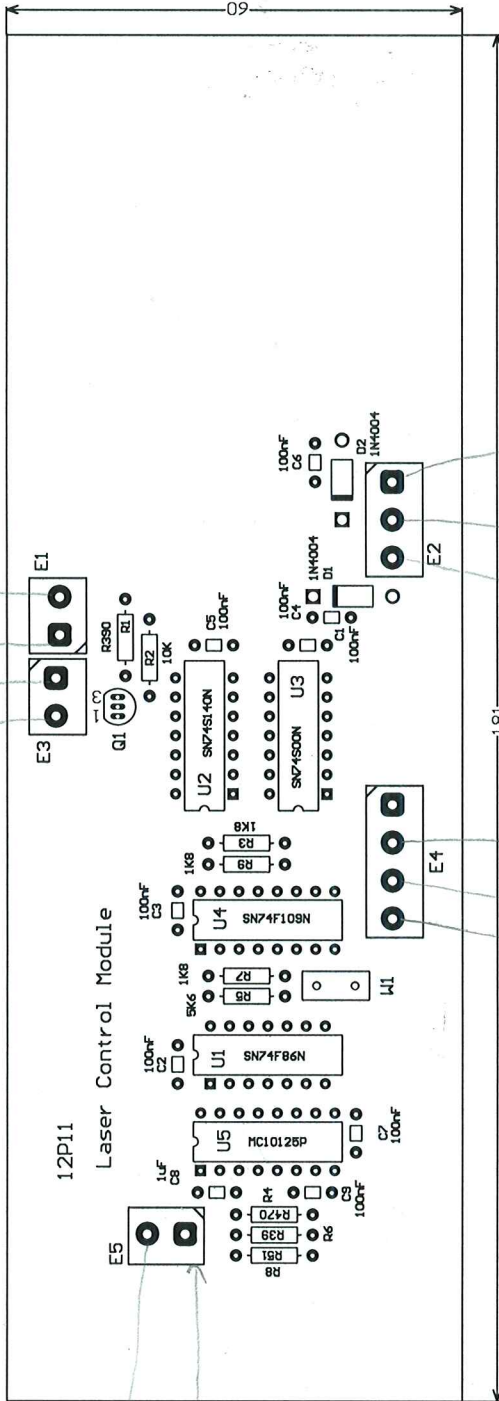
1

4

3

2

1



LED  
YVO  
7700

7700  
+6V  
-6V  
ON  
OFF  
AUTO

7700  
11N

Bill of Material for  
 On 26-4-2012 at 11:38:54

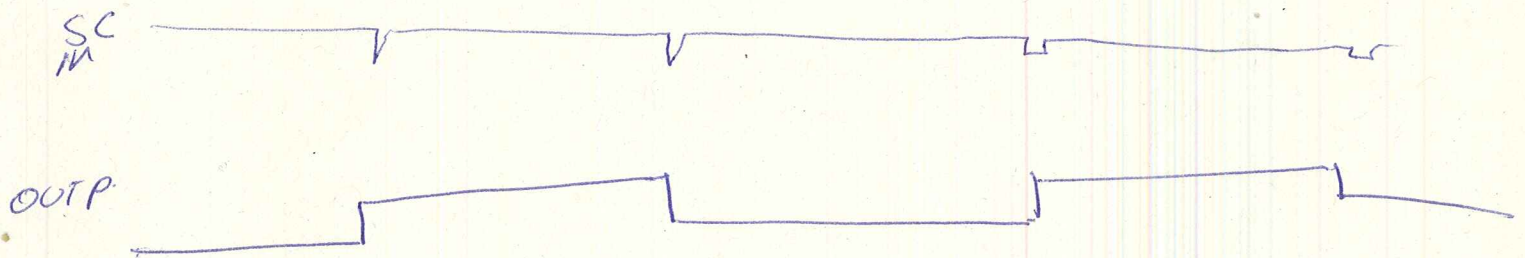
Comment	Pattern	Quantity	Components
* 100nF	AXIAL-0.2	8	C1, C2, C3, C4, C5, C6, C7 C9 Capacitor
* 10K	AXIAL-0.4	1	R2 Resistor
* 1K8	AXIAL-0.4	3	R3, R7, R9 Resistor
* 1N4004	DO-41	2	D1, D2 1.0 Ampere General Purpose Rectifier
* 1uF	AXIAL-0.2	1	C8 Capacitor
* 5K6	AXIAL-0.4	1	R5 Resistor
* BC337	SOT54	1	Q1 NPN General-purpose Transistor
* EC 2p	EC2	3	E1, E3, E5 Edge Connector 2p
* EC 3p	EC3	1	E2 Edge Connector 3p
* EC 4p	EC4	1	E4 Edge Connector 4p
Jumper	RAD-0.2	1	W1 Jumper Wire
* MC10125P	648-08	1	U5 Quad MECL to TTL Translator
* R39	AXIAL-0.4	1	R6 Resistor
* R390	AXIAL-0.4	1	R1 Resistor
* R470	AXIAL-0.4	1	R4 Resistor
* R51	AXIAL-0.4	1	R8 Resistor
* SN74F109N	N016	1	U4 Dual J-K Positive-Edge-Triggered Flip-Flop with Clear and Preset
* SN74F86N	N014	1	U1 Quadruple 2-Input Exclusive-OR Gate
* SN74S00N	N014	1	U3 Quadruple 2-Input Positive-NAND Gate
* SN74S140N	N014	1	U2 Dual 4-Input Positive-NAND 50-Ohm Line Driver

## NIM-module met:

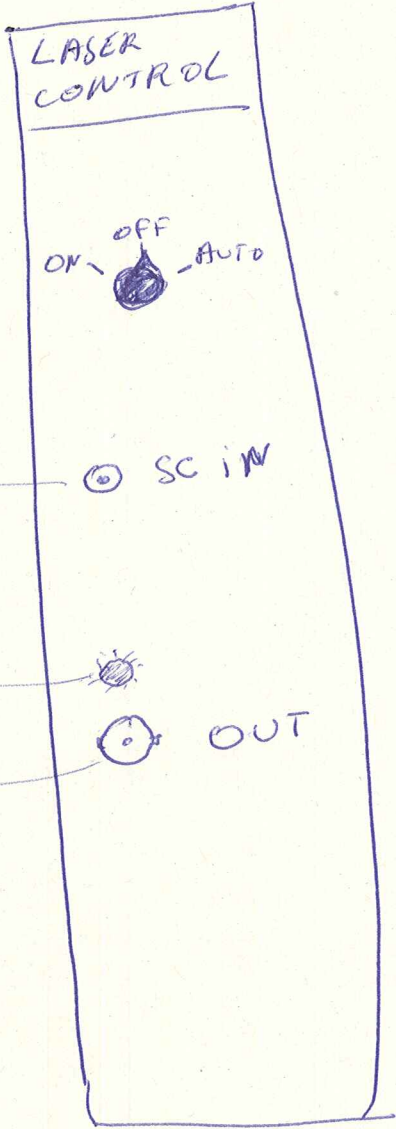
- 3 standen schakelaar
- output BNC: ~~USER~~ OUT
- input LEMO: SC IN
- LED

als schakelaar op stand

- ON dan output = +5 V (TTL 1)
- OFF dan output = TTL  $\phi$
- AUTO dan toggle-t de output telkens er een FASTNIM signaal op de input "SC in" komt



OUTPUT 50  $\Omega$  driver



LEMO

SC in

LED



BNC



OUT