OSIMPLC

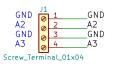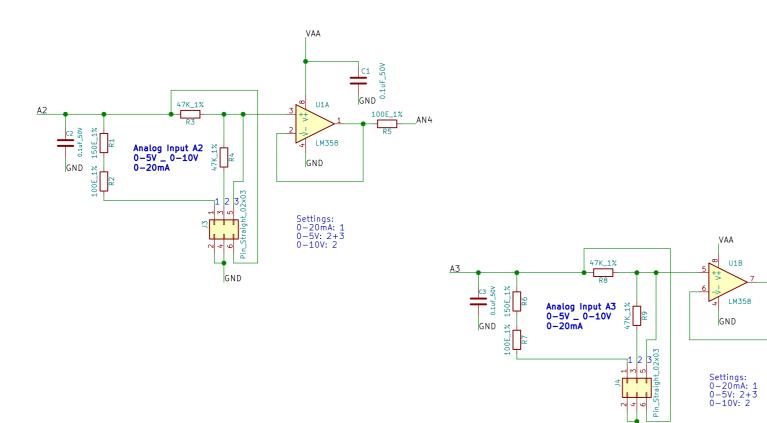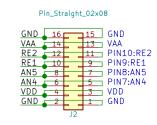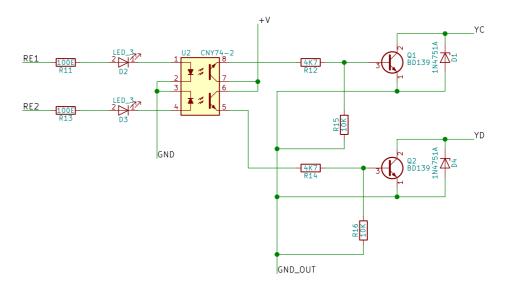## Open Simple Industrial Modular Programmable Logic Controller

2 ANALOG INPUTS 2 DIGITAL OUTPUTS EXPANSION MODULE
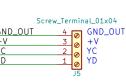

PWR_FLAG — VDD
PWR_FLAG — VAA
PWR_FLAG — GND

J1 Screw_Terminal_01x04
- GND 1 GND
- A2 2 A2
- GND 3 GND
- A3 4 A3

Pin_Straight_02x08 — J2
GND	16	15	GND
VAA	14	13	VAA
RE2	12	11	PIN10:RE2
RE1	10	9	PIN9:RE1
AN5	8	7	PIN8:AN5
AN4	6	5	PIN7:AN4
VDD	4	3	VDD
GND	2	1	GND

U1A LM358
VAA
C1 0.1uF_50V
GND
R3 47K_1%
R4 47K_1%
R2 100E_1%
C2 0.1uF_50V
GND
R5 100E_1% — AN4
J3 Pin_Straight_02x03
GND

Analog Input A2
0-5V _ 0-10V
0-20mA

Settings:
0-20mA: 1
0-5V: 2+3
0-10V: 2

U1B LM358
VAA
A3
R8 47K_1%
R6 100E_1%
R9 47K_1%
C3 0.1uF_50V
GND
R10 100E_1% — AN5
J4 Pin_Straight_02x03
GND

Analog Input A3
0-5V _ 0-10V
0-20mA

Settings:
0-20mA: 1
0-5V: 2+3
0-10V: 2

RE1 — R11 100E — D2 LED_3 — U2 CNY74-2
RE2 — R13 100E — D3 LED_3
+V
GND
R12 4K7 — Q1 BD139 — D1 1N4751A — YC
R15 — Q2 BD139 — D4 1N4751A — YD
R14 4K7
R16
GND_OUT

J5 Screw_Terminal_01x04
- GND_OUT 4 GND_OUT
- +V 3 +V
- YC 2 YC
- YD 1 YD