

Evolutek<< & Coffee Machine

Sheet: /
File: Module Actuators.sch

Title: Module Actuators

Size: A4 Date: 2020-12-09

KiCad E.D.A. kicad (5.1.8)-1

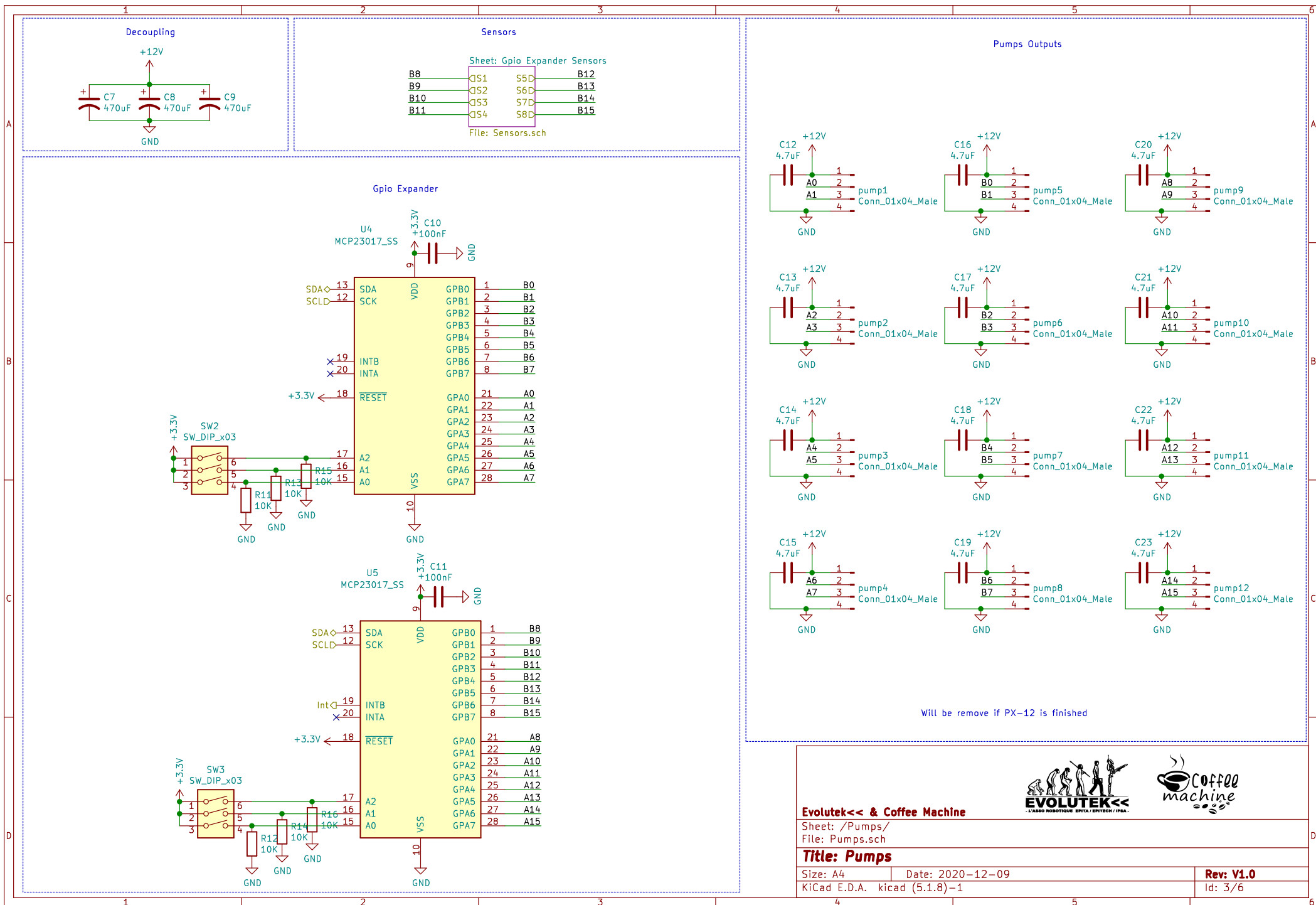
Rev: V1.0

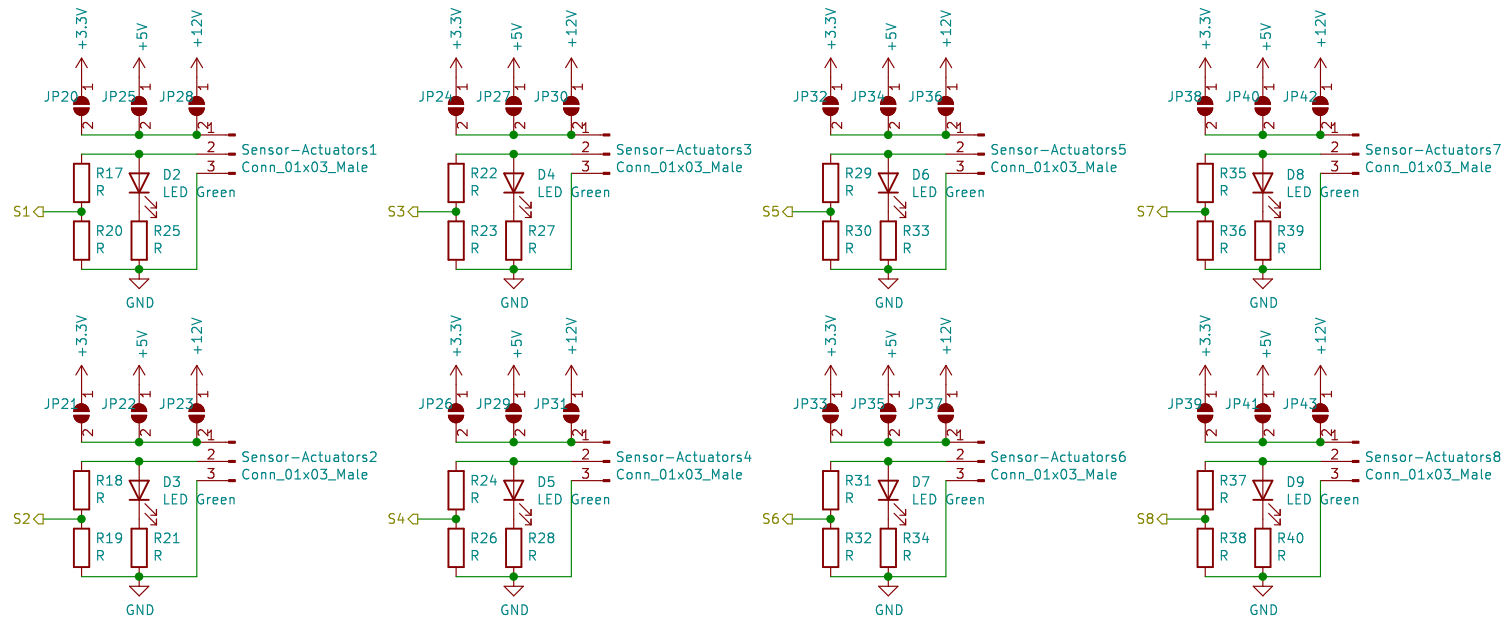
Id: 1/6





Rev: V1.0
Id: 2/6





Each sensor input is configurable :

- Output Voltage via solder joints (3.3V, 5V & 12V)
- Need to choose the correct resistor for the led, depending on the output voltage of the sensor:
 - 3.3V: 68 Ohms
 - 5V: 150 Ohms
 - 12V: 510 Ohms
- Need to choose the correct resistors of the voltage divider (input: 3.3V)

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Sheet: /Pumps/Gpio Expander Sensors/
File: Sensors.sch

Title: Sensors

Size: A4 Date: 2020-12-09

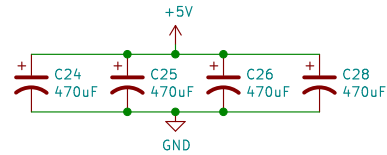
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Rev: V1.0

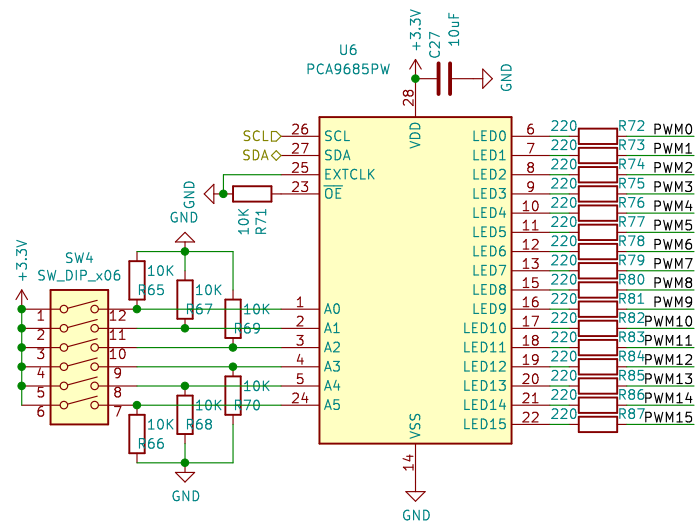
Id: 4/6



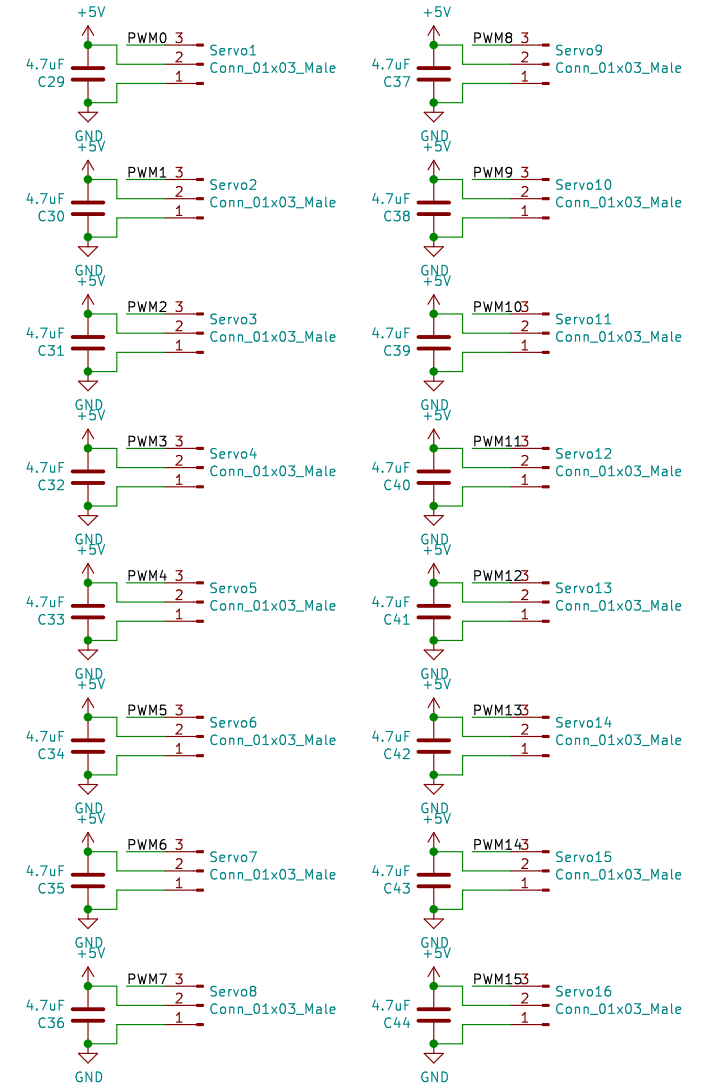
Decoupling



PWM Generation



Servos Outputs



Evolutex<< & Coffee Machine

Sheet: /Servos/
File: Servos.sch

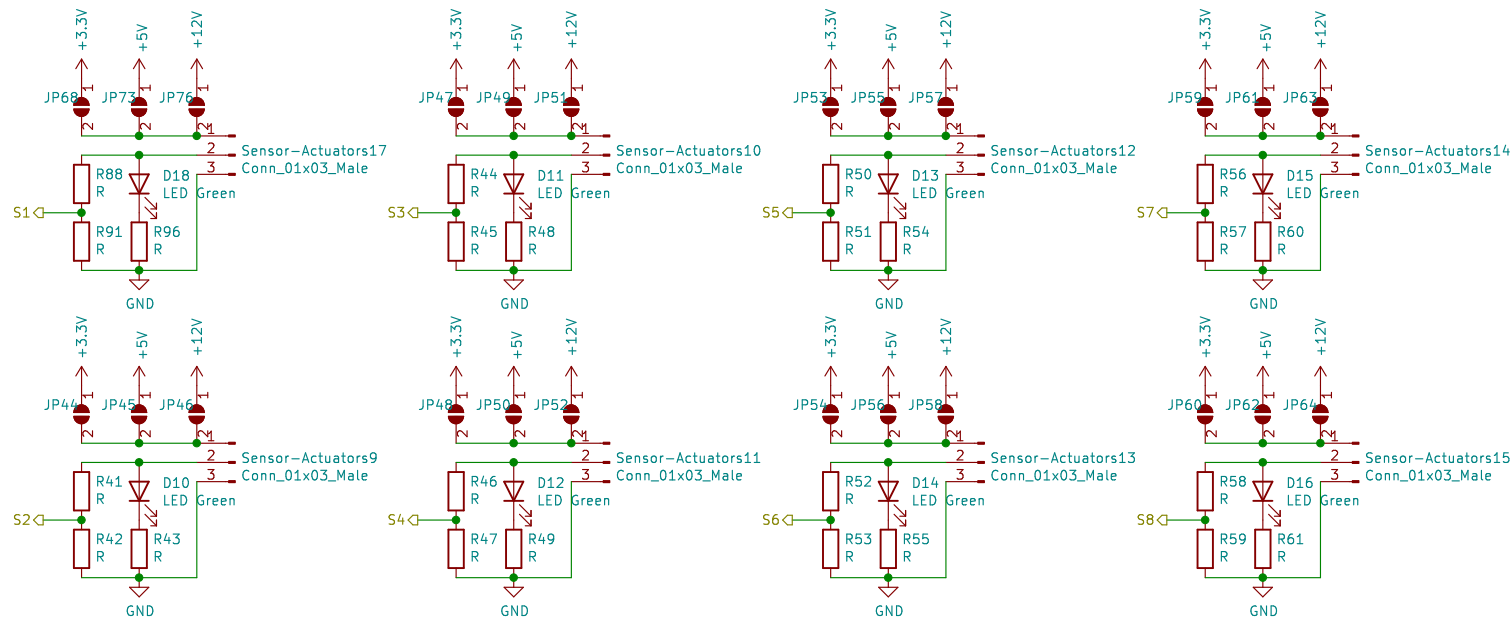
Title: Servos

Size: A4 Date: 2020-12-09

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Rev: V1.0

Id: 5/6



Each sensor input is configurable :

- Output Voltage via solder joints (3.3V, 5V & 12V)
- Need to choose the correct resistor for the led, depending on the output voltage of the sensor:
 - 3.3V: 68 Ohms
 - 5V: 150 Ohms
 - 12V: 510 Ohms
- Need to choose the correct resistors of the voltage divider (input: 3.3V)

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Sheet: /Nucleo Sensors/
File: Sensors.sch

Title: Sensors

Size: A4 Date: 2020-12-09

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Rev: V1.0

Id: 6/6

