

Features:

- 2x pump half bridge
- 2x solenoid half bridge
- 2x vacuum sensor SPI
- 2 Servo PWM
- 2 analog input
- 1 digital input



Authors:

Michael Spieler, Salah Missri, Antoine Albertelli

Club Vaudois de Robotique Autonome

Sheet: /

File: actuator-board.sch

Title: Actuator board

Size: A4

Date: 2020-02-12

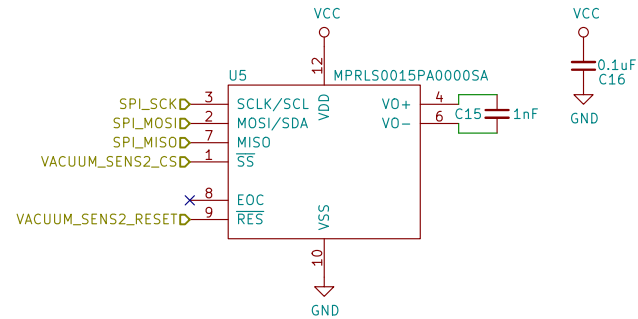
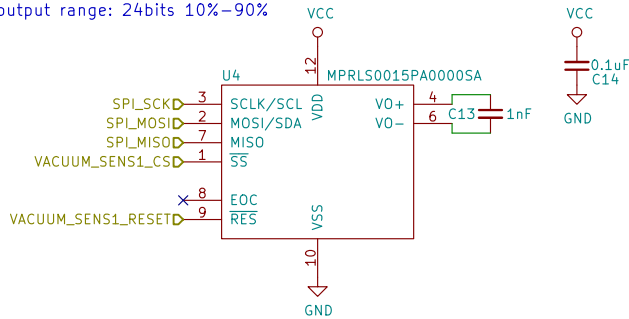
KiCad E.D.A. kicad (5.1.4-0-10_14)

Rev: A.4

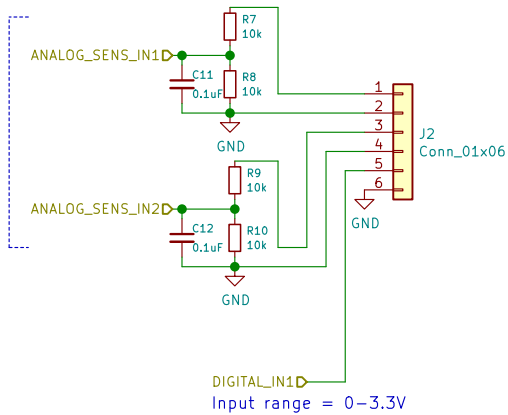
Id: 1/3



- Notes:
- Absolute pressure
 - 0-1 atm
 - SPI mode
 - output range: 24bits 10%-90%



Input range = 0-6.6V
 $F_c = 318 \text{ Hz}$
 $(10k+10k)/(10k*10k*100nF*2*pi)$



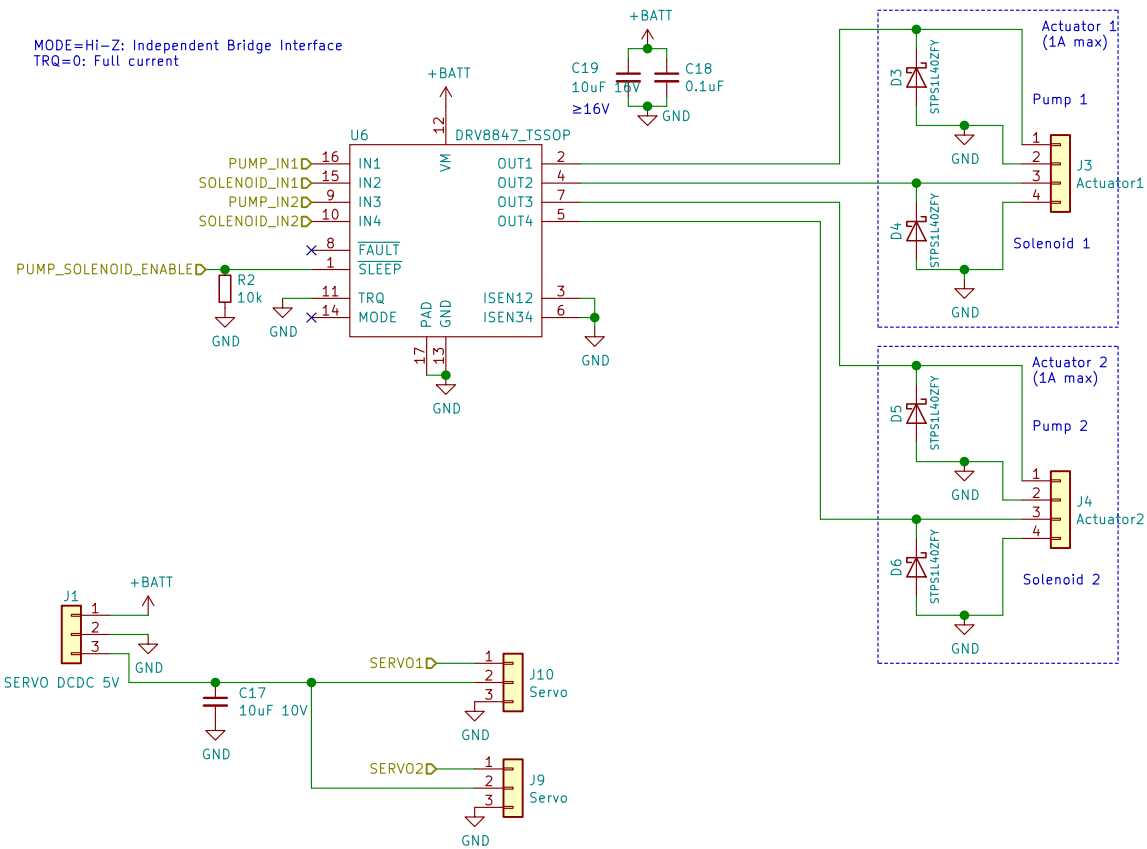
Authors:
Michael Spieler, Salah Missri, Antoine Albertelli
Club Vaudois de Robotique Autonome

Sheet: /Sensors/
File: Sensors.sch

Title: Actuator board

Size: A4
KiCad E.D.A. kicad (5.1.4-0-10_14)

Rev: A.4
Id: 2/3



Authors:
Michael Spieler, Salah Missri, Antoine Albertelli
Club Vaudois de Robotique Autonome

Sheet: /Actuators/
File: Actuators.sch

Title: Actuator board

Size: A4
KiCad E.D.A. kicad (5.1.4-0-10_14)

Date: 2020-02-12

Rev: A.4

Id: 3/3