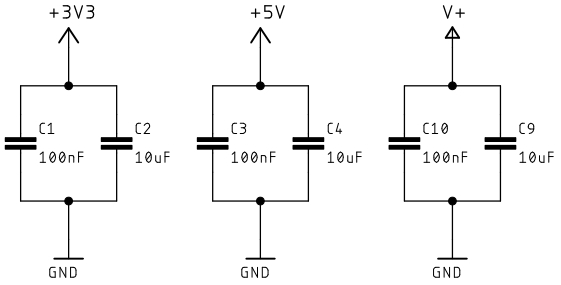
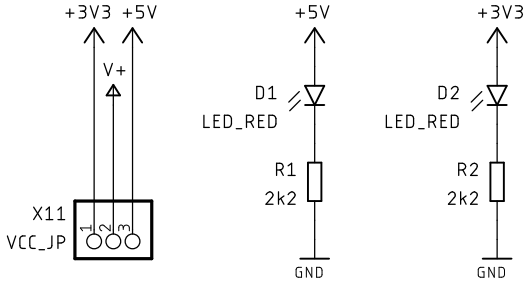
Tilt – Sensor Circuit

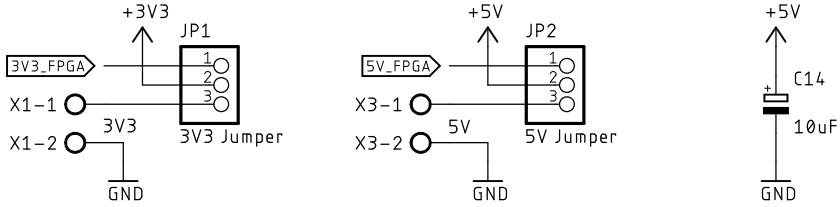
Supply Voltage Bypass Capacitors



Supply Voltage Selection Switch + Indicator LEDs

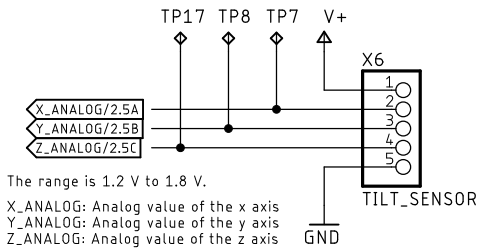


External Voltage Connectors / Jumpers



GND – Testpoint

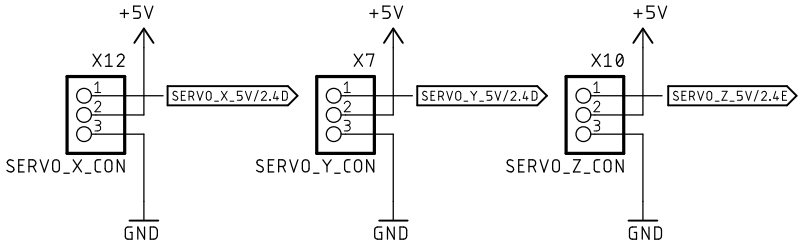
Tilt–Sensor Connector



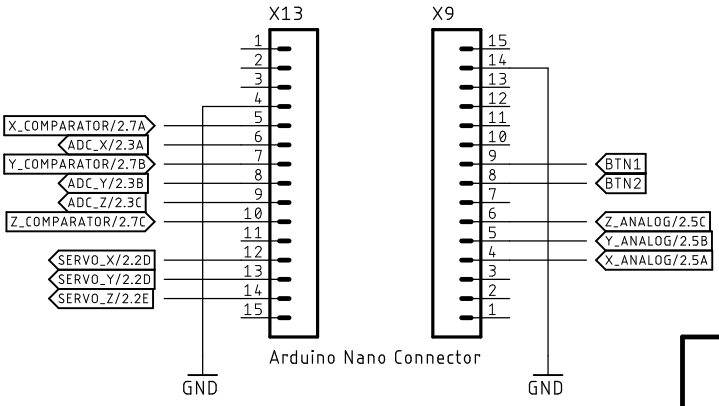
The range is 1.2 V to 1.8 V.

X_ANALOG: Analog value of the x axis
Y_ANALOG: Analog value of the y axis
Z_ANALOG: Analog value of the z axis

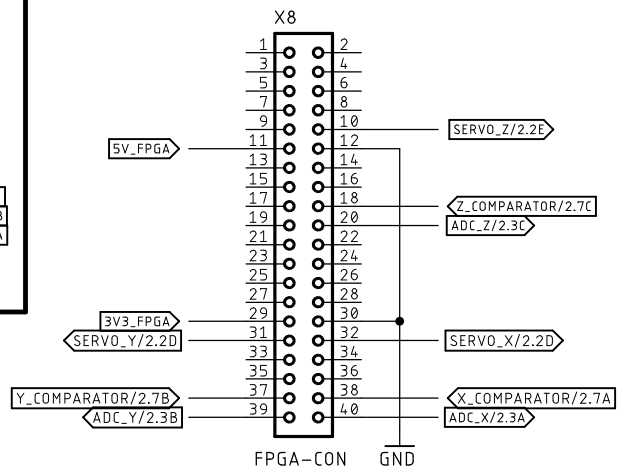
Servo Connectors



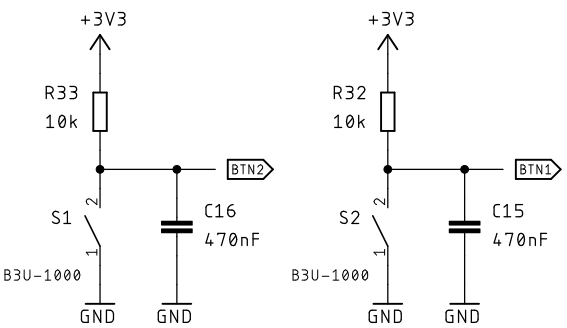
Arduino Nano Connector



FPGA Board Connector



Buttons



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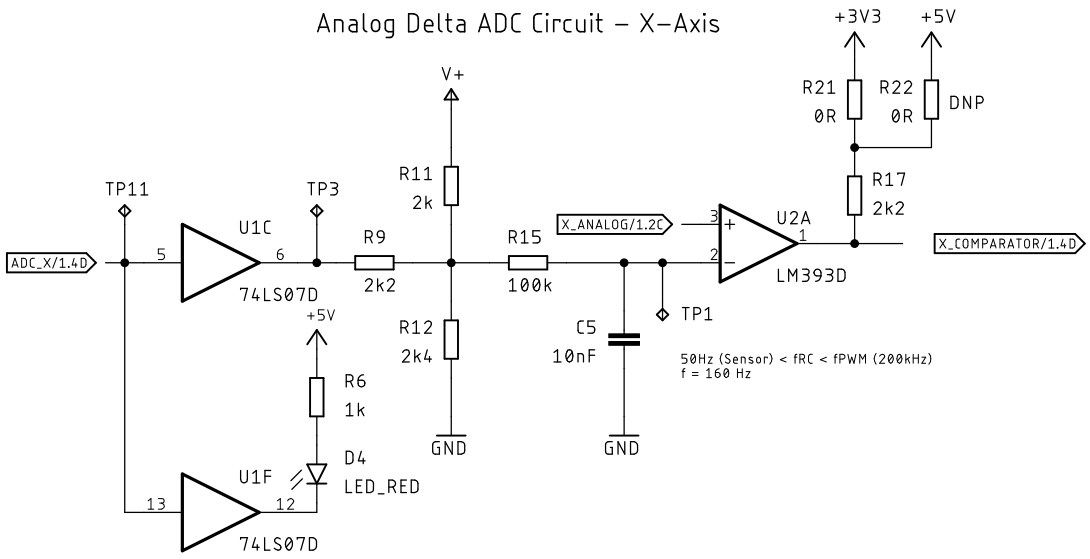
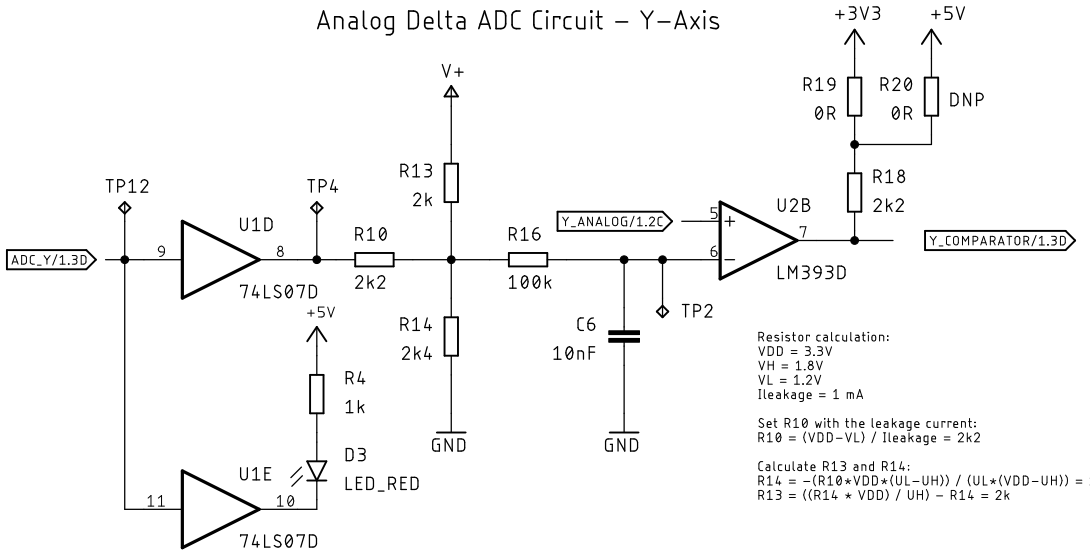
Tilt–Sensor Circuit – Analog Domain

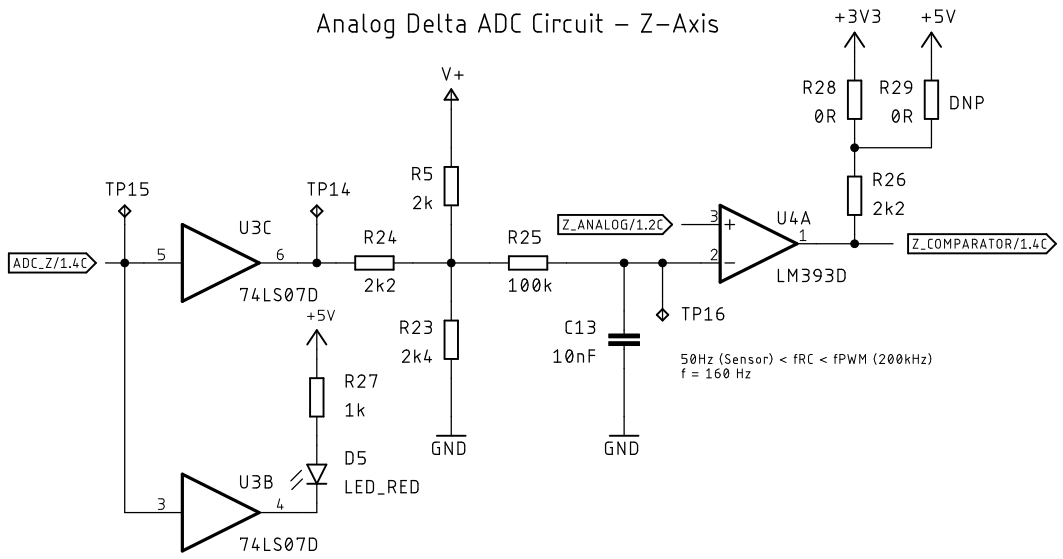
Analog Delta ADC Circuit – X–Axis



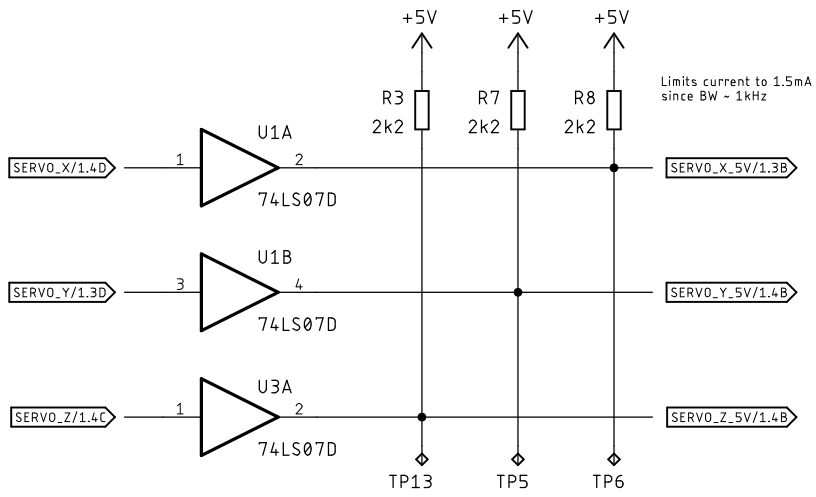
Analog Delta ADC Circuit – Y–Axis



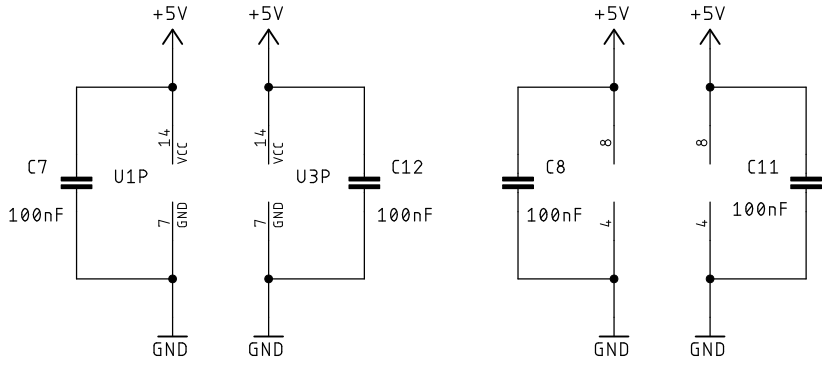
Analog Delta ADC Circuit – Z–Axis



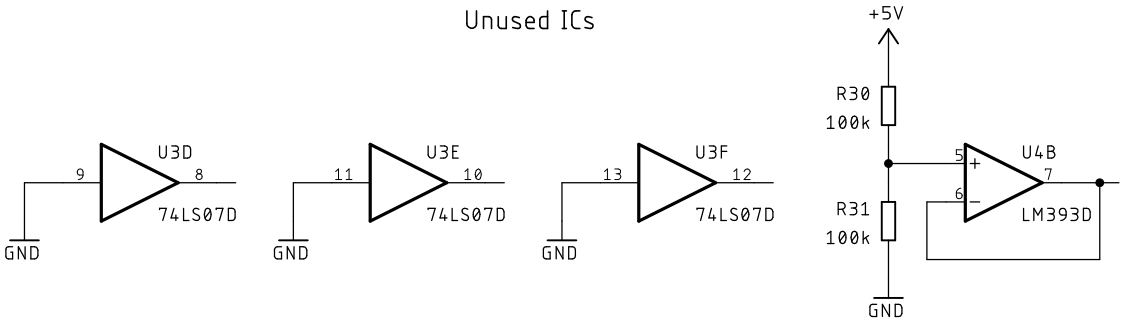
Buffers shifting Servo Voltage to 5V



IC Bypass Capacitors



Unused ICs



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