

The diagram shows the following connections:

- Stepper-Motor:** A1, A2, B1, B2
- DRV8833 motor Driver ADAFRUIT:**
 - AOUT1, AOUT2, BOUT2, BOUT1, AS, BS, -
 - AIN1, AIN2, SLP, BIN2, BIN1, FLT, GND, VM
- Power:** +5V, GND
- Logic:** D9, D10, D11, D12
- Grounds:** GND, VCC

I2C 16 x 2 display

GND

VCC

SDA

SCL

GND

+5V

SDA-LCD

SCL-LCD

Disc pump/ TTPV

GND
 PRESSURE
 ANALOG
 UART RX
 UART TX
 GPIOA
 GPIOB
 2.5V
 -

DC1
DC-JACK

2.5V
GND

GND

RIN2

Joystick shield V1.A
Funduino

+12V
GND

JOY1

SCL-LCD

SDA-LCD

Arduino UNO

D0-RX
D1-TX
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
GND

A5-SCL
A4-SDA
A3
A2
A1

VIN
GND
5V
3.3V
RESET

RST
3.3V
5V
GND
VIN

~A0
~A1
A2
A3
A4
A5
GND
5V

D9
D10
D11
D12
D13

3.3V
GND
D13
D12
D11
D10
D9
3.3V
/
-D7
-D6
-D5
-D4
-D3
-D2
D1
D0
RX
TX
-
+
.

D7
D6
CONF-B
AUT-B
D3
MAN-D


note: ~ gebruikt de shield met
zijn knoppen

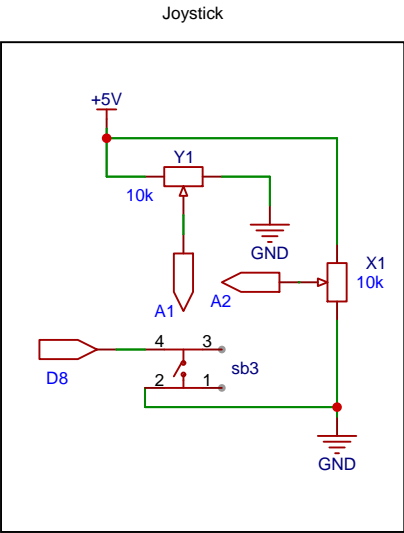
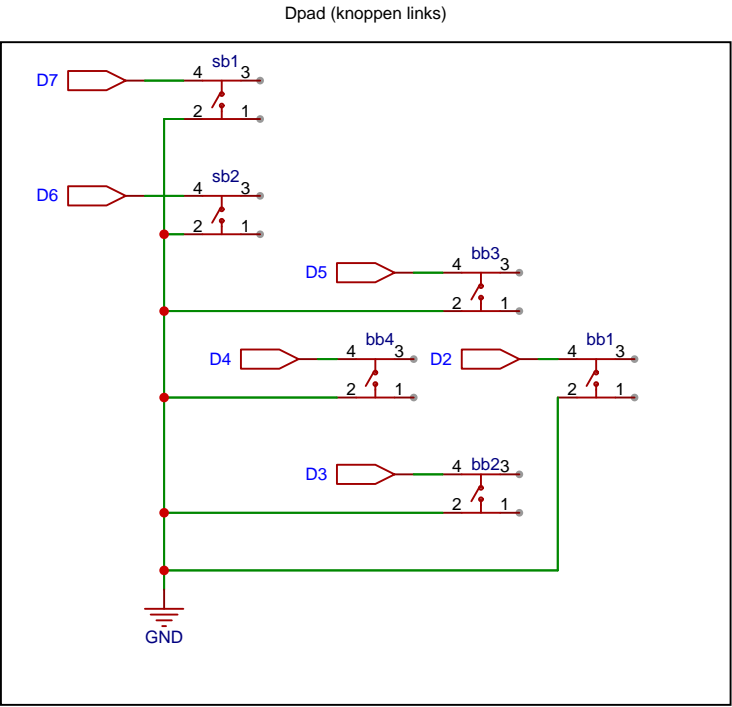
zie joystick shield .V1.A
schematic p2

Diagram illustrating the connection of a loadcell to an hx711 module:

- loadcell pins:** zwart, rood, groen, wit
- hx711 pins:** E+, E-, A+, A-, B-, B+, GND, DT, SCK, VCC
- Connections:**
 - zwart → E+
 - rood → E-
 - groen → A+
 - wit → A-
 - GND → Ground symbol
 - DT → D7 (red box)
 - SCK → D6 (red box)
 - VCC → +5V

Het schema geeft de elektrische verbindingen en componenten weer die nodig zijn voor de werking van de opstelling. Ontwerpkeuzes zijn gebaseerd op functionele eisen en kunnen aangepast worden naarmate het project evolueert. Eventuele verbeteringen of optimalisaties zullen in toekomstige versies verwerkt worden.

Schematic	Schematic			Create at	2025-04-28
				Update at	2025-04-28
Board	Board1			Page	parts
Drawn		PMD4U schematic			
Reviewed					
		Version	Size	Page 1 Total 2	
		V1.0	A4	EasyEDA.com	



Schematic	Schematic			Create at	2025-04-28
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