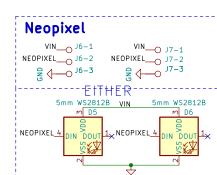


Also take car of orientation of plug



OLED - SSD1306

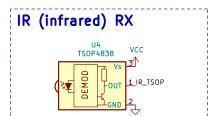
SCL\_3\_ J2

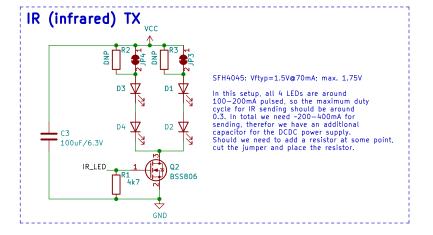
# Notes on Button2:

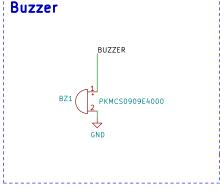
- \* D6/GPI018 can be used to detect if there is 3V3 on button 2
- \* If JP1 is closed, a 3pin Jackplug can be connected, which carries 3V3, GND and a GPIO pin

### Notes on pressure sensor:

- \* An MPRLS sensor is used on the mainboard normally
- \* Alternative: attach sensor board with I2C







Changes for v3.2:

-) 2x2 SFH4045 LEDs without R (but possibility)

-) move MPRLS DRDY to a RP2040 pin

-) pulldown on FET gate

-) remove all THT stuff

-) remove MPXV in general

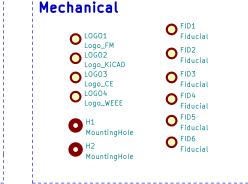
-) change footprint of OLED

-) resistor buzzer -> removed

-) connector sensorboard (Würth WM-MM)

-) capacitor for IR LEDs

-) moved all SMD parts to top (except Arduino)



## Orders in addition to Schematic BOM

# FLipMouse

- \* Silicon tube, 2x4mm, 45mm length
- \* PVC/PE tube 4x6mm, 5mm length
- \* LuerLock with M5 screw
- \* Sensor board PCB (see second KiCAD project & BOM)
- \* screws according to case (4x M2x10+nuts; 2x M2x16)
- \* Mouthpiece
- \* Sensorboard cable (6pin IDC cable 65mm + 2x WR-MM 690157000672)

\* Glide adapter PCB (see addons folder for KiCAD project & BOM)

- \* 3D printed case (depending on type)
- \* HotShoe Adapter
- \* USB cable with magnetic plug
- \* Packaging

These parts should be placed in the .xls BOM file.

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AsTeRICS Foundation Sheet: / File: FM3\_mainboard.kicad\_sch Title: FLipMouse (FLipPad) Mainboard Size: A3 Date: 2022-10-18
KiCad E.D.A. kicad 6.0.11+dfsg-1

v3.2