



Foot pedal adapter



CosmicBee

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updated 15. 7. 2024 | published 15. 7. 2024

Summary

This foot pedal adapter is made to replace the injection molded piece with zip tie for strain relief

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For the full article check out my website! <https://www.cranberrygrape.com/mini-projects/foot-pedal-enhanced/>

I purchased one of these pcsensor FS2020U1 USB Foot Switch Control devices from aliexpress a bit back (from a different seller that is no longer available for this model).

Initially I was going to use the existing wires coming from the board but realized it powered the sensor by doing a round-robin power setup powering one signal pin at a time while checking the state of the others (using a reverse biased diode to power the board from the main board). The main board still surfaced the power pin though (each of the side boards is a duplicate of the main) so I realized I could replace the wire with a 5 wire one I grabbed from Amazon and be able to use this with my projects going forward.

The existing piece this is replacing is an injection molded plastic piece with strain relief built in. I opted to use holes for a zip tie for my own strain relief here.

It works rather well and with this setup I'm able to use a SAMD21 to send mouse or keyboard commands on touch, can make lots of interest projects utilizing it as an actuator, and so on.

Model files



foot-pedal-adaptor.stl

☐ Support was not needed for me, positioned for printing

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