



Lack Table Leg Relay and Temperature Sensor Holder



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Summary

A mount that attaches to a Lack table leg for two relays and temperature sensor.

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Tags: [3dprinterenclosure](#) [relay](#) [relayboardmount](#)
[temperaturesensor](#)

I designed this mount to hold two relays and a temperature sensor controlled by Octoprint.

The main body needs to be printed with supports, the cover (print 2) and the PCB spacer can be printed without supports. The covers are secured with m2 screws and the rest of the components are mounted with m3 screws. All screws screw directly into the print.

The main body has a channel to run the 5v and GND wires from one relay board to the other so you just need to hook up the control wire to the second relay.

I used the screw terminals from a 3rd relay board and some perf board cut to 0.6x0.6 inches to hook up the the temperature sensor. To mount the

perf board to the mount I drilled a 1/8" whole using the 3rd (middle) hole from the left and the 2nd hole from the top as a guide. I also routed a ground wire from one of the relays to the per board so I just need to supply 3v and the I2C wires to the screw terminals.

To hook up to the raspberry pi I ran a 7 conductor cable for the following signals

- 5v
- GND
- Relay 1 control
- Relay 2 control
- 3v
- I2C SDA
- I2C SCL

Model files



mainmount.stl



relaycover.stl



pcbspacer.stl

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