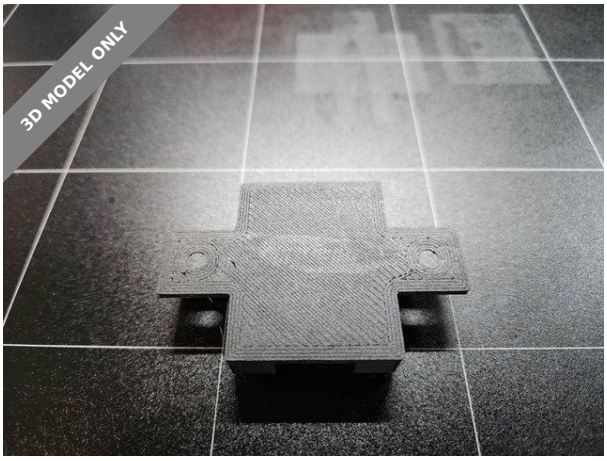

IR Obstacle Detector Case

Escape_Adventures

VIEW IN BROWSER

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Summary

This is a case I designed for IR Obstacle Sensors compatible with Arduinos and ESP32s.

Hobby & Makers > Electronics

Tags: case sensor arduino esp32 electronicsenclosure

This is a case I designed for IR Obstacle Sensors compatible with Arduinos and ESP32s. Specifically this was made to be used in a soon to be completed Escape Room. The module I used is https://www.amazon.com/gp/product/B0B7Y1HCKQ/ref=ppx_yo_dt_b_asin_title_o01_s00?ie=UTF8&psc=1 . There is a pin to hold the sensor in place. Cutouts allow the IR LED and the Sensor to protrude from the case and access to the pins on the opposite side. There are wings with holes for screws on the sides and a hole in the top to allow access to the potentiometer screw for adjusting sensitivity. There are snaps for the case so it will stay closed. There's also a tongue and groove for the top to slide onto the bottom piece. The tongue and groove is very tight.
I printed this with Nylon and I think others could probably print it better or make tweaks to the design as mine had some stringing and the pin was not very sturdy (probably way too tall). The snaps on mine were also not very flexible and easily snapped off.

Model files

ir-sensor-case-2-v3.obj

ir-sensor-case-1-v3.obj

ir-sensor-case.f3z

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