

Low Profile Switch

SUMMARY

Title

Low Profile Switch

Subtitle

A low force hand operated switch

Overview

This is a cost-effective 3D printable accessibility switch that only requires the user to lift their finger or hand as high as 8mm to use it. This switch would be beneficial for someone who may have a limited range of motion and would benefit from using a switch that has a large activation area with a minimum switch height. The switch measures 65 mm L x 65 mm W x 13mm H and is built using a standard 3.5 mm cable. Using the specified model of tactile switch, the activation force to use the switch is low and is comparable to the force required to activate the light touch switch.

Usage

The switch is well-suited for use by a finger or hand. This switch can be plugged into any standard AT interface. It can also be used with the Xbox Adaptive Controller.

Cost

\$0-10

Build Instructions

SKILLS REQUIRED

- 3D Printing
- Soldering

TIME REQUIRED

1-4 hours

TOOLS

- Soldering Iron and Solder
- Wire Strippers / Wire Cutters
- Hot Glue Gun and Glue

COMPONENTS

- 1x 3D Printed Top
- 1x 3D Printed Base

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- 1x 3.5 mm Mono Cable
- 1x 12mm Tactile Switch

3D PRINTING

All components can be printed with no support at 20% infill with a 0.2mm layer height.

Attribution

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