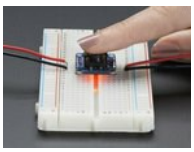

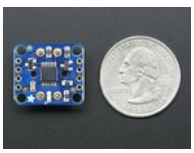

Adafruit Push-button Power Switch Breakout

PRODUCT ID: 1400

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DESCRIPTION

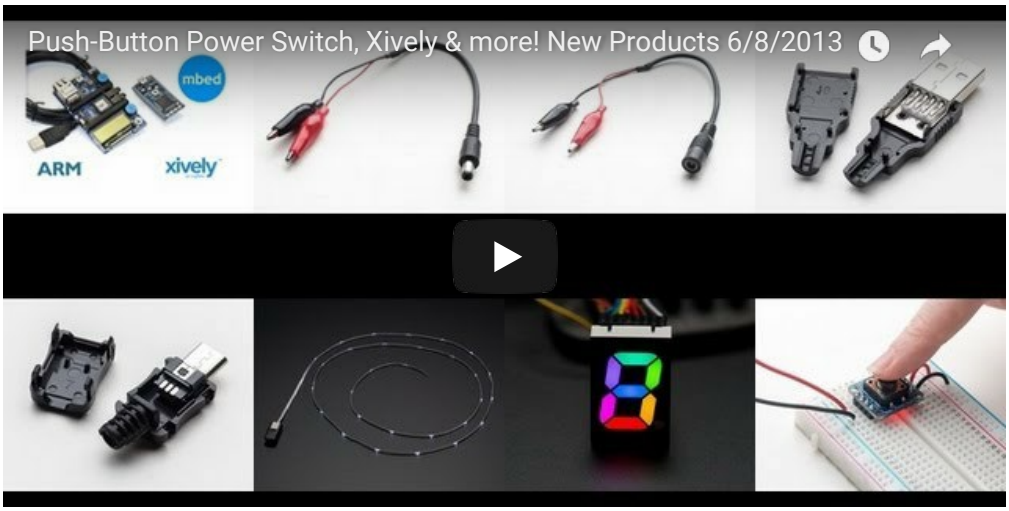
The Adafruit Push-button Power Switch is a tidy little design that lets you control a DC power source using an everyday tactile button. The breakout uses a latching analog circuit that is triggered by a push of the button. Press once to turn on, then press again to turn off. The circuit uses a 3A P-FET to connect and disconnect the **IN** pin to the **OUT** pin. Works great from 3V to 14VDC and up to 3A (although the FET gets a little toasty at continuous 3A draw) yet has only 0.5uA quiescent current draw.

Using it is easy: connect the power source to Ground and IN, then the load from Ground to OUT. We include a 12mm tactile switch that works well but you can solder in your own switch as well. Press the button (or short the button pins) to alternate between on or off. A on-board red LED will light up when active so you know its working. There's a fourth **KILL** pin, which you can use to turn off the load and/or keep it off even if the button is pressed. When 1 or more volts is

applied it will instantly turn off the FET. This allows your project to turn itself off.

Comes with a assembled & tested bread-board friendly breakout board with four mounting holes, a 12mm tactile button, and some 0.1" male header you can solder to the board to plug it into a breadboard.

The power switch is an elegant way to control power to your project, but there are some things to keep in mind: since there is a pass FET, this is only for 3-14V DC voltages. This is not a mechanical switch so there is no air-gap isolation. There is a 'body diode' in the pass FET so if the load has a voltage on it that is higher than the input voltage, current will flow back to the input. There is built-in debouncing but very bouncy switches can be annoying as they will turn on and off fast instead of latching.



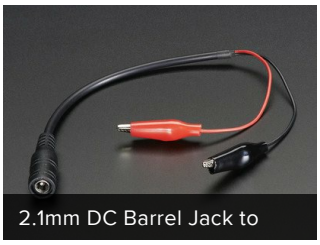
Adafruit Push-button Power Switch Breakout (11:52)

TECHNICAL DETAILS

- Dimensions: 20.51mm / 0.8" x 17.75mm / 0.69" x 2.66mm / 0.1"
- Height with Switch: 8.69mm / 0.34"
- Weight: 2.6g
- MC14093 Datasheet (the NAND gate used) P-Channel Pass MOSFET
- EagleCAD PCB files on GitHub
- Adafruit Fritzing Library

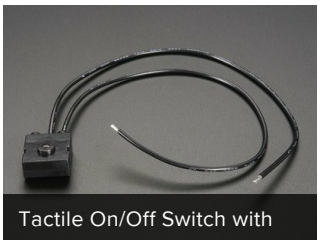
RoHS

MAY WE ALSO SUGGEST...


2.1mm DC Barrel Jack to

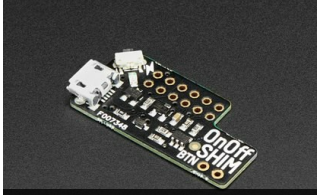

2.1mm DC Barrel Plug to


In-line power switch for


Tactile On/Off Switch with

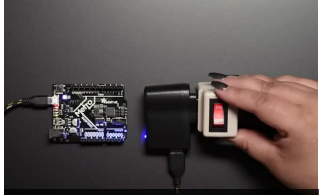

Adafruit TPL5111 Low Power


Tactile Alternating Button



Pimoroni OnOff SHIM for

Triple Output 195 Watt



On/Off Power Switch with

Adafruit TPL5110 Low Power

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"There's nothing like watching the sunrise to the beats of the Robot Heart" - Andrew "bunnie" Huang