



Foot Pedal Potentiometer – Sewing Machine Speed Controller

PRODUCT ID: 3739

We've had a foot pedal *switch* in the store for a while but some people have contacted us asking if there was a way to retrofit it to perform variable speed control, like a potentiometer. And here it is! This is a Foot Pedal Potentiometer (a.k.a Sewing Machine Speed Controller).

This is a really nice quality one, very sturdy, with a friendly 3.5mm 'audio' connector on the end, so it's incredibly easy to integrate into your project. You can use a 3.5mm terminal-block adapter, in-line wired jack, breadboard jack, or a panel mount jack. A lot of the cheap samples we looked at have a wall plug, are very low resistance (because they're meant to go in-line with the mains power) or are not very durable.

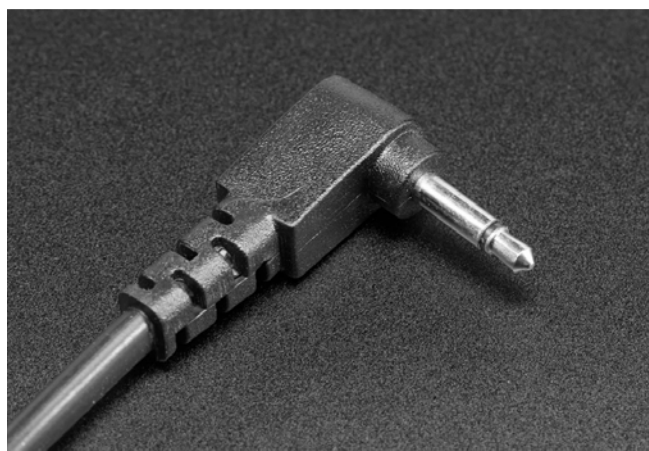
When no pressure is placed on the pedal, you'll read about 20 K Ω . When pressed down all the way, you'll read about 1 K Ω , and the resistance change is linear with the motion. Connect one side to ground, then the other side to a 10K resistor pull-up to your microcontroller's logic voltage. Then read the divided analog voltage, like you would with a photo-cell or other 'resistive' type sensor.

TECHNICAL DETAILS

- Power cord length: ~5ft
- Pedal body: 135 x 85 x 56mm
- Resistance: approx. 1K Ω – 20K Ω
- Rated voltage: 15V DC
- Rated current: 3mA max

Product Dimensions: 135.0mm x 85.0mm x 54.0mm / 5.3" x 3.3" x 2.1"

Product Weight: 188.0g / 6.6oz





<https://www.adafruit.com/product/3739> 4-30-18