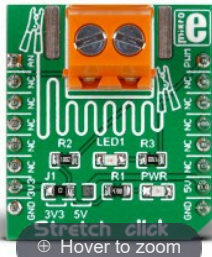


Stretch click

PID: MIKROE-2064

Weight: 25 g


Stretch click is a mikroBUS™ add-on board with circuitry for measuring stretch forces with conductive rubber cords. The click has screw terminals for connecting 2mm-diameter conductive rubber cord. The resistance of the cord increases when stretched, impacting the voltage available on the AN pin. Stretch click is designed to use either a 3.3V or 5V power supply.




Quantity

1  

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DESCRIPTION

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Stretch click is a mikroBUS™ add-on board with circuitry for measuring stretch forces with conductive rubber cords. The click has screw terminals for connecting 2mm-diameter conductive rubber cord. The resistance of the cord increases when stretched, impacting the voltage available on the AN pin. Stretch click is designed to use either a 3.3V or 5V power supply.

In a 'relaxed' state, the resistance is about 130 ohms per centimeter. As you pull on it, the resistance increases (the particles get further apart). As you stretch it out, the resistance increases. So lets say you have a 15cm piece - thats about 2.1 Kohms. Stretch it to 25cm long and now it is $26/15 \times 2.1K = 3.5$ Kohms. You can stretch the rubber about 50-70% longer than the resting length, so a 15cm piece shouldn't be stretched more than 25cm. Once the force is released, the rubber will shrink back, although its not very "fast" and it takes a minute or two to revert to its original length. It's not a true linear sensor, and the resistance may vary from batch to batch, so we consider it a way to measure stretching motion but isn't really precise. One meter of conductive rubber cord and two alligator clips are included in the package.

Downloads



Stretch click Examples 



Stretch click Schematic



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