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Force 4 Click

www.mikroe.com





PID: MIKROE-4193

Force 4 Click is based on HSFPAR003A piezoresistive force sensor from Alpsalpine. This product is a force sensor using the effect of a piezoresistive bridge circuit formed on silicon diaphragm. Piezoresistive force sensors achieve higher linearity than other force sensors. To help with stability and accuracy Force 4 Click also includes MCP1101-33 a high precision buffered voltage reference as a power supply to a force sensor that allows high stability and accuracy of output voltage readings.

Force 4 Click board™ is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

Mikroe produces entire development toolchains for all major microcontroller architectures. Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.





health and safety management system.



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Specifications

| Туре | Force |
|------------------|--|
| Applications | Fine-diameter stylus pen evelopment, load and compression sensing, variable tension control and many more |
| On-board modules | HSFPAR003A |
| Key Features | High sensitivity and good linearity, precisely detect micro force less than 0.01 N. no characteristics change after 1 million cycles |
| Interface | Analog,I2C |
| ClickID | No |
| Compatibility | mikroBUS |
| Click board size | S (28.6 x 25.4 mm) |
| Input Voltage | 3.3V |

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

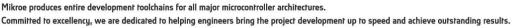
Downloads

Force 4 click 2D and 3D files

HSFPAR003A datasheet

Force 4 click schematic

Force 4 click example on Libstock



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