

Piezo Vibration Sensor

SKU 314070001

The LDT0-028K is a flexible component comprising a 28 µm thick piezoelectric PVDF polymer film with screen-printed Ag-ink electrodes, laminated to a 0

IN STOCK 15 Available

Qty:

- 1 +

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Description

The**LDT0-028K** is a flexible component comprising a 28 µm thick piezoelectric PVDF polymer film with screen-printed Ag-ink electrodes, laminated to a 0.125 mm polyester substrate, and fitted with two crimped contacts.

As the piezo film is displaced from the mechanical neutral axis, bending creates very high strain within the piezopolymer and therefore high voltages are generated. When the assembly is deflected by direct contact, the device acts as a flexible"switch", and the generated output is sufficient to trigger MOSFET or CMOS stages directly. If the assembly is supported by its contacts and left to vibrate"in free space"(with the inertia of the clamped/free beam creating bending stress), the device will behave as an accelerometer or vibration sensor. Adding mass, or altering the free length of the element by clamping, can change the resonant frequency and sensitivity of the sensor to suit specific applications. Multi-axis response can be achieved by positioning the mass off center. The LDTM-028K is a vibration sensor where the sensing element comprises a cantilever beam loaded by an additional mass to offer high sensitivity at low frequencies.

Features

- Solder tab connection
- Both no mass & with mass version
- Withstands high impact
- Operating temperature: 0°C to 85°C
- Storage temperature: -40°C to 85°C
- Higher temperature version up to 125°C

See More

Questions and Answers

Have a question about this? Ask people who own it.

0

Can we have a specific example of application? and how the Piezo Vibration SensorSKU 314070001was conected?

lauberca on Apr 04,2017

Reply

upvote (0)

Hello, please connect a 1M register to the sensor, and then you can get voltage from the sensor.

Thanks.

ae on Apr 14,2017 11:26 AM

Reply

upvote (0)

Recommendations

- 

Piezo Sensor - MiniSense 100
- 

Grove - Piezo Vibration Sensor
- 

Grove - Moisture Sensor
- 

Grove - Universal 4 Pin 20cm...
- 

Grove - Sound Sensor
- 

PIR Motion sensor module
- 

Grove - Water Sensor
- 

Grove - Relay
- 

Grove - Temperature & Humidity...
- 

Grove - Universal 4 pin connector
- 

Temperature sensor with steel head
- 

Ultra Sonic range measurement module

View History



Temperature sensor with steel head

BACKORDER



Analog joystick

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The never_going_to_miss glaring_devil_eye Huge Red...

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Piezo Sensor - MiniSense 100

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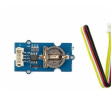


Photo interrupter (OS25B10)

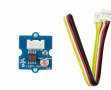
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Grove - 4 pin Female Jumper to Grove...



Grove - RTC



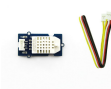
Grove - Light Sensor



Photo Reflective Sensor



Load Sensor



Grove - Temperature&Humidity...



Breadboard Jumper Wire Pack(241mm...

Grove - Ultrasonic Ranger

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