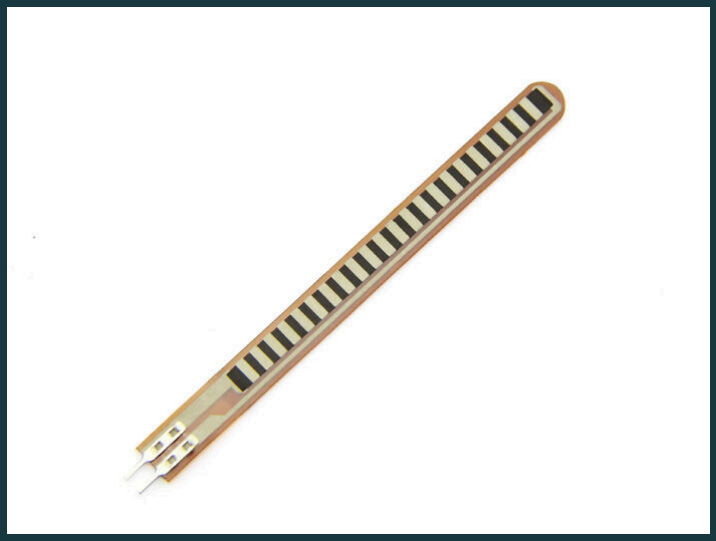
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INDUSTRIAL PRODUCT DATASHEET

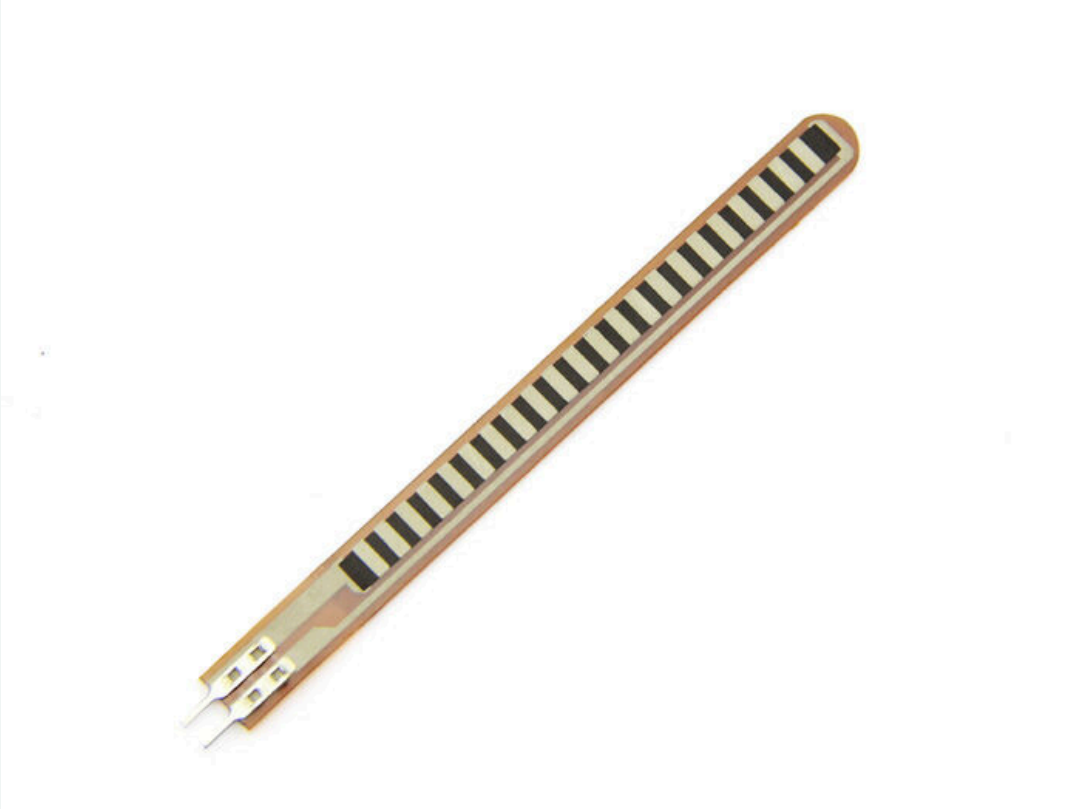
2.2 Inch Bend Sensor - A201

Ultra-thin flexible force sensor with a 0.375 in sensing area, <±3% linearity, <5 µs response, and force ranges up to 100 lb (440 N).

SKU	UPDATED	PRICE
114990106	2025-09-02 05:58:10	$25.95(Excl. VAT)



Overview



The 2.2 Inch Bend Sensor - A201 is an ultra-thin, flexible force sensor constructed with two layers of polyester film laminated with silver and pressure-sensitive ink, terminated with a 3-pin male square pin connector. It offers linearity error <±3%, repeatability <±2.5% of full scale, response time <5 µs, and force ranges from 0–1 lb (4.4 N) up to 0–100 lb (440 N).

Key Features

Introduction:

This force sensor is an ultra-thin, flexible printed circuit. The standard A201 force sensor is constructed of two layers of substrate (polyester) film. The high-temp model (HT201) is constructed of two layers of polyimide.

On each layer, a conductive material (silver) is applied, followed by a layer of pressure-sensitive ink.

Adhesive is then used to laminate the two layers of substrate together to form the force sensor.

The active sensing area is defined by the silver circle on top of the pressure-sensitive ink. Silver extends from the sensing area to the connectors at the other end of the sensor, forming the conductive leads.

A201 sensors are terminated with male square pins, allowing them to be easily incorporated into a circuit. The two outer pins of the connector are active and the center pin is inactive.

Features:

- better linearity
- measurement of higher loads
- stable output with respect to load area

Specification:

- **Physical Properties:**
- Thickness: 0.008 in. (.203 mm)
- Length: 7.75 in. (197 mm)
- 6 in. (152 mm)
- 4 in. (102 mm)
- 2 in. (51mm)
- Width: 0.55 in. (14 mm)
- Sensing Area: 0.375 in. diameter (9.53 mm)
- Connector: 3-pin male square pin

Typical Performance:

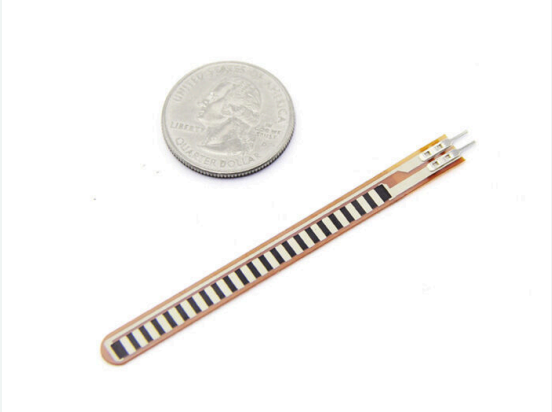
- Linearity Error: <±3%
- Repeatability: <±2.5% of full scale
- Hysteresis: <4.5% of full scale
- Drift: <5% per logarithmic time scale
- Response Time: <5 microseconds
- Operating Temperatures: -40°F - 140°F(-40°C - 60°C)
- Force Ranges: 0-1 lb (4.4 N), 0-25 lb (110 N),0-100 lb (440 N)
- Temperature Sensitivity: Output variance up to 0.2% per degree F

Datasheet

For any technical support or suggestion, please kindly go to our **forum**.

Product Gallery





Compliance & Logistics

HSCODE	9031900000

Resource Links

- https://www.seeedstudio.com/2-2-Inch-Bend-Sensor-A201-p-2090.html

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