

Infosheet

Pressure sensor SensoForce Type-A

- › Sensor with thick-film technology
- › Changes voltage depending on pressure
- › Finger pressure sensor

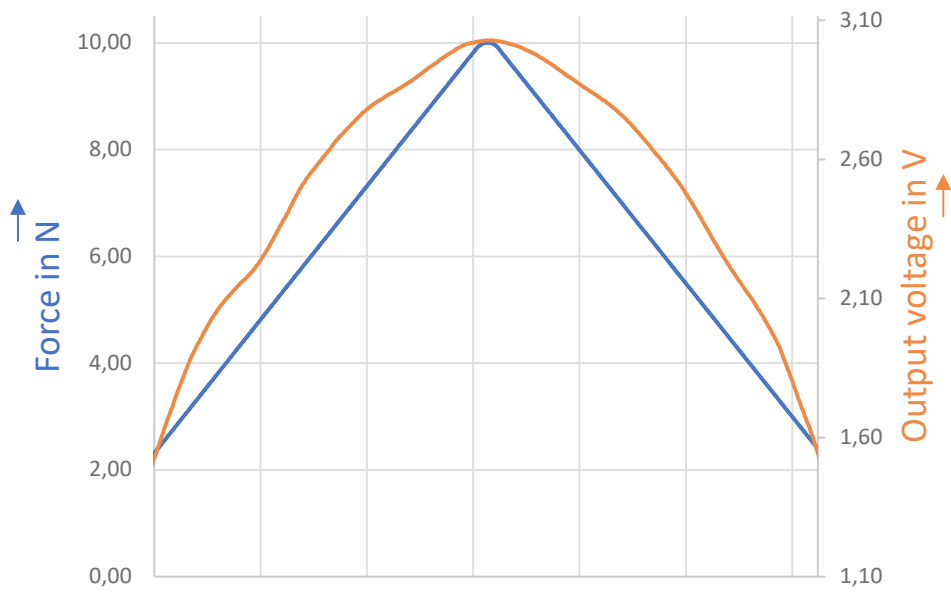


Pressure sensors change their electronic resistance when force is applied. A special thick FSR (Force Sensing Resistor) paste is printed on a PET film and integrated into a sandwich film structure. As a result, the sensor track lies inside the film structure and is optimally protected from dust and water.

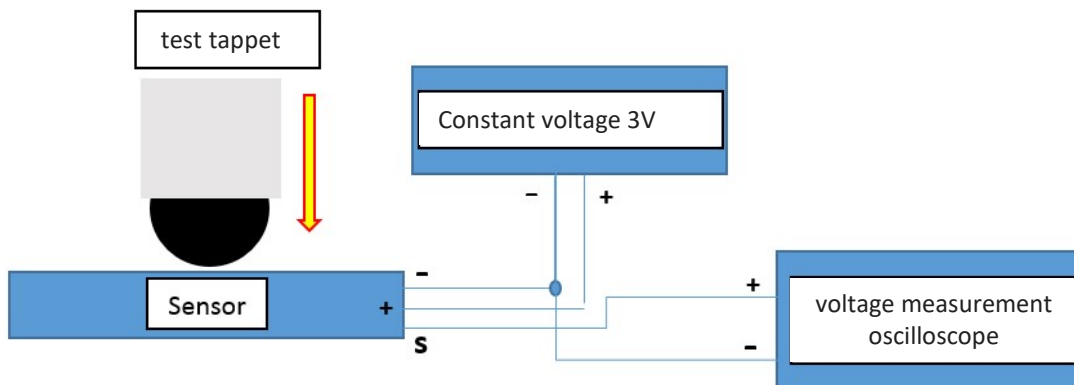
Type:	A
Measuring principle:	Thick film FSR Technology
Measurement parameters:	Force
Electrical contacting:	Soldering pads
Force application:	test tappet (Plunger no.1)
Supply voltage:	max. 5V
Shielding:	none
Temperature range:	-30 °C up to +70 °C
Measuring range:	10 N
Measuring path:	< 0,25mm
Overload range:	100N
Resolution:	analogue
Accuracy:	approx. +/- 0,5N
Lifetime:	1 Mio. Switching cycles

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Force/voltage characteristic



Assignment and mode of operation of the sensor

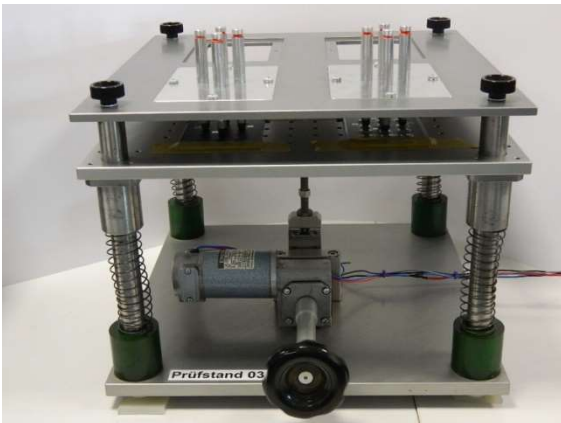


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Life time test:

The sensor is actuated cyclically with a spring-loaded rubber test finger. The actuation frequency is approx. 1 Hz.

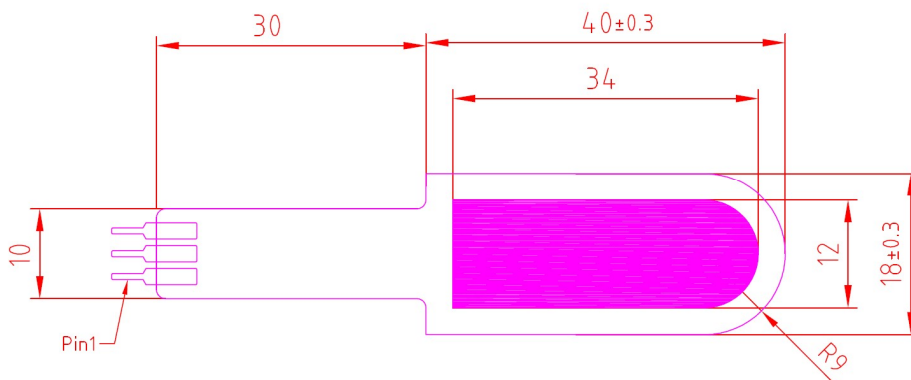
The test device:



Test result after 1 million operations:

The characteristic curve shows only minor changes

Dimensions:



All technical data are not guaranteed properties, but may deviate depending on the customer-specific design.