



FlexiForce Custom Sensor Design

Please fill out this form as completely as possible and mail or fax it to us at:
617-464-4266

General Information:

Name: _____
 Title: _____
 Company: _____ Division: _____
 Address: _____
 City: _____ State: _____ Zip: _____ Country: _____
 Telephone: _____ Fax: _____
 E-mail: _____
 Division Revenue _____ Number of Employees _____
 How did you learn about us? _____
 Have you used resistive technology before? _____
 What characteristic of our sensor is appealing in this application? _____

 What other technologies are you considering? _____
 Date Quote required _____ Date Prototype required _____ Anticipated Prototype Volume _____
 Date Full Production Anticipated _____
 Anticipated Full Production Volume _____/month. _____/year. _____ total
 Sensor Unit Cost Objective _____ Anticipated Retail Price of Final Product _____

Please complete the following sections to the extent possible. The questions are intended to help us understand more about your application and therefore provide a superior solution.

Application:

Describe the Product or Application _____

 Describe Function of Sensor in the Product _____

 Is the sensor acting as a switch _____ or variable resistor _____ in the application?

Physical and Mechanical Aspects:

What force ranges do you expect the sensor to see? max. _____ min. _____
 For how long will the sensor be constantly loaded? seconds _____ minutes _____ hours _____ more _____
 What is the overall size & shape of the sensor you need (length, width, thickness)? _____
 What is your overall part thickness constraint? _____
 How many cycles do you anticipate? _____ What total product life is required? _____
 Under what environmental conditions do you expect the sensor to operate?
 Temperature _____ Preload _____ Humidity _____ Cycles _____ Shear Stress: _____
 Solvents/Corrosives _____ UV Exposure _____ Abrasion _____
 Other (describe): _____
 Please prioritize the following sensor properties (High, Med., Low):
 repeatability _____ drift _____ hysteresis _____ temperature stability _____
 linearity _____ durability _____ cost _____ part-to-part variation _____
 How many separate sensing regions are required per part? _____
 If this is a multi-point sensor would you prefer to connect to those points in:
 series _____ parallel _____ individual lead pairs _____ common bus _____ multiplexed array _____
 If a multi-point, bus or array please describe the type of electrical lead out / bussing system you prefer.



Do you have a preference in your pin-out orientation? If so please diagram and attach.

Electrical Aspects:

What Voltage do you expect to apply? _____
What resistance range should the sensor to exhibit at max. load? _____ min. load? _____
What specific part-to-part force/resistance tolerance requirements do you have? _____
Will each sensor be calibrated initially _____ periodically _____
Do you need assistance in developing electronics to utilize the sensor? _____
What type of connection technology do you wish to use? _____
Wire leads and conductive epoxy _____ Pin connectors _____ Solderable tabs _____
Installed by customer _____ by Tekscan _____

Mounting Area Considerations:

Size and shape of mounting area _____
Backing material desired (Polyester, Kapton, Ultem, other): _____
Is the texture of the mounting surface: smooth _____ rough _____
Is the surface: flat _____ simple curve _____ complex curve _____
Describe if complex _____
What is the sensor position within the part? _____
How will the sensor be mounted/adhered? _____
Adhesive coverage needed? Entire (end-to-end) _____ Just at sensing area _____ Just at lead length _____
Would you like us to apply it? _____ What type of material will you be mounting on top of the sensor?
metal _____ plastic _____ rubber _____ fabric _____ wood _____ other _____
On what type of material will you be mounting the sensor? _____
What is the nature of the force actuator? _____
Footprint Size: _____ Shape: _____ Material _____

Please provide a sketch of the sensor below, or attach a drawing of the desired sensor.