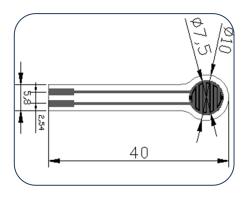
Film Pressure Sensor DF9-40@20kg

V2.0



The Leanstar® film pressure is a flexible pressure sensing technology which adopted by Leanstar in Suzhou. Printing flexible nano-functional materials with strong adhesion, bending resistance and high sensitivity on flexible and thin materials which enables it to achieve high sensitivity detection to pressure.

Product Feature



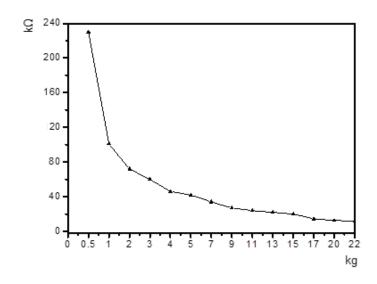
Item	Size (mm)
Length	40
Outside diameter of sensing area	10
inside diameter of sensing area	7.5
Pin pitch	2.54
Tolerance	0.2

- Size can be customized.
- ♣ Thickness is less than 0.3mm.
- Certified by ROHS.

Film pressure sensor DF9-40@20kg is based on new-type nanometer pressure sensitive materials, which supplemented by ultrathin film substrate of Young's modulus and disposable pater. It has both waterproof and pressure-sensitive functions. The resistance value of the sensor changes when the sensor perceives pressures from the outside. The pressure signal can be converted into the corresponding electrical signals with a simple circuit.

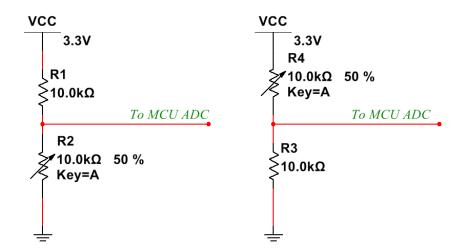
Performance	Parameter
Force Range	0-20kg
Thickness	< 0.3mm
Sensitive Point	< 7 0g
Repeatability	<±6.6%(50% of the load)
Precision	±5%
Durability	>1 Million times
Initial Resistance	>10MΩ(Unloaded)
Response Time	< 1ms
Recovery Time	< 15ms
Testing Voltage	DC 3.3V
Working Temp	-20°C - 60°C
EMI	N/A
ESD	N/A

Pressure-sensitive Characteristic



Pressure-sensitive Graph

Reference Circuit



Attentions:

- ♣ Try to keep the force load evenly and avoid pointed objects contacting to the sensor.
- ♣ Outrange force application will reduce sensitive performance and even damage sensors.
- Pressure-sensitive curve for your reference only.