

Product description

FS-ARR-4X8-ROT pressure distribution sensor is an array pressure sensor with 32 sensing points, 8 horizontally and 4 vertically, one sensing point every 2.5X2.5mm, and a gap of 0.7mm between sensing points. The resistance value of each sensing point decreases as the pressure acting on it increases. The interface adopts X+Y mode, with a total of 12PIN and PITCH 0.5mm.

The sensor is composed of polyester film with excellent comprehensive mechanical properties, highly conductive materials and nano-level resistance materials. The bottom layer is the conductive layer of the FPC circuit board, and the top layer is a flexible film and a pressure-sensitive material compounded on it. The two are attached by double-sided tape to isolate the sensing areas of the upper and lower layers. When the sensing area is pressurized, the lines that are disconnected from each other at the bottom layer will be connected through the lower layer to the conductive layer, and the resistance output value of the port changes with different positions.

- Precise Sensing
- Fast response speed
- Durability and long life
- Product appearance can be customized according to customer requirements
- The pressure point distribution of the product can be customized according to customer requirements
- The product pressure sensing range can be customized according to customer requirements
- Product sensitivity can be customized according to customer requirements

The thickness and softness of the product can be customized according to customer requirements

Main technical data and physical properties

Thickness	0.3mm
Style	Flake
Trigger force	20g 20g~5kg , Single sensing point
Pressure range	
Pressure action mode	Press
Resistance when not triggered	>20MΩ
Operating temperature	-20°C~+65°C
Repeatability	+/-5%@1Kg,single
Drift	-10%, 24H@1Kg
Hysteresis	10%, 24H@1Kg More than 1million times, 1Kg force
Durability	
Response time	<10us
EMI	No
EDS	No
Conform to RoHS	

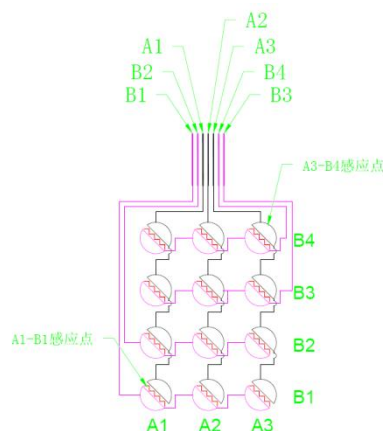
Typical application

- Pressure distribution measurement, multi-point monitoring
- Writing area analysis
- Gesture analysis
- Local force analysis

1. The structural dimensions are as follows:



Array distribution is adopted, X_m - Y_n corresponds to the sensing points of the m th column and the n th row respectively. When the multimeter ohm probe is connected to the interface X_m and Y_m , the resistance value of the X_m - Y_n sensing point can be measured. A and B correspond to X and Y respectively, and the sensor circuit schematic diagram is as follows:



Note: The above information is believed to be correct and is prepared for professional end users who are capable of correctly evaluating and using these data. Shenzhen XX Technology Co., Ltd. does not guarantee the accuracy of these data and is not responsible for any damage that occurs during use.

