

Membrane Force Sensor



39.6mm Square Active Area

Application

✓ Fitness, Medical, Industrial and many others

Feature

✓ Ultra-thin, with better performance at high temperature, humidity and repeatability.

Order Code	Outline Drawing
MF02A-N-221-A03	The drawing shows a square sensor with a central active area. Dimensions include: overall width 83.1, overall height 43.7, active area width 39.6 and height 39.6, and a 2mm gap between the active area and the outer frame. Pin 1 and Pin 2 are indicated on the left side with dimensions 7.62 and 2.54 respectively. The bottom edge has a 0.2±0.05mm thickness and a 4mm width. The right edge has a 0.56±0.05mm thickness.

INSPECTION ITEM	SPECIFICATION
FORCE SENSITIVITY RANGE	100g ~ 5000g (0.98N ~ 49N)
FORCE RESOLUTION	Continuous(Analog)
STAND-OFF RESISTANCE (UNLOADED)	>20MΩ
FORCE REPEATABILITY (SINGLE PART)	2%
FORCE REPEATABILITY (PART TO PART)	10% (Single batch)
RESPONSE TIME	<1ms
LONG TERM DRIFT	<10% log10(time)
LIFE CYCLE (WITHOUT FAILURE)	>10 Million
OPERATING TEMPERATURE	-30°C to +85°C
HIGH HUMIDITY STORAGE	+70°C, 85%RH x 96hrs
HIGH TEMPERATURE STORAGE	+85°C x 120hrs
LOW TEMPERATURE STORAGE	-30°C x 120hrs

CONNECTOR OPTIONS

Bare Tail	Female Contacts	Solder Tabs (pin)	Female Contact with Housing

Design and specifications presented here are for the standard parts only. Please kindly contact us for your special requests and ask for the current technical specifications before purchase and/or use.