

Membrane Force Sensor



14.7mm Circle 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
MF01A-N-221-A08	

INSPECTION ITEM	SPECIFICATION
FORCE SENSITIVITY RANGE	30g ~ 1000g (0.3N ~ 9.8N)
FORCE RESOLUTION	Continuous (Analog)
STAND-OFF RESISTANCE (UNLOADED)	50KΩ±20% (Fixed Resistor)
FORCE REPEATABILITY (SINGLE PART)	2%
FORCE REPEATABILITY (PART TO PART)	5% (Single batch)
RESPONSE TIME	<1ms
LONG TERM DRIFT	<10% log ₁₀ (time)
HYSTERESIS	10%
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

Specification based on 1kg actuator measurement, one standard deviation / mean.

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.