

# Membrane Force Sensor




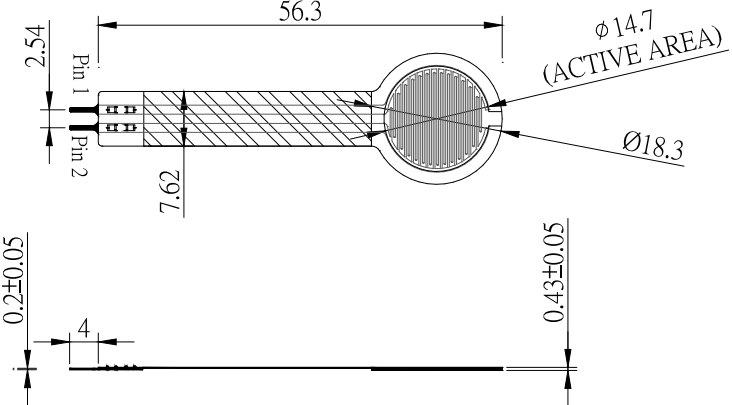

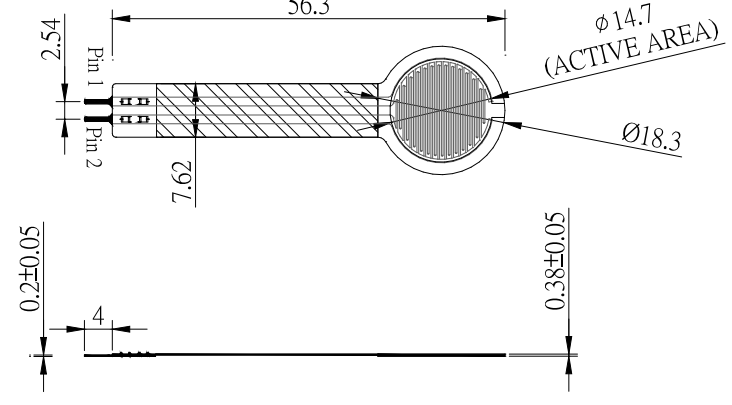

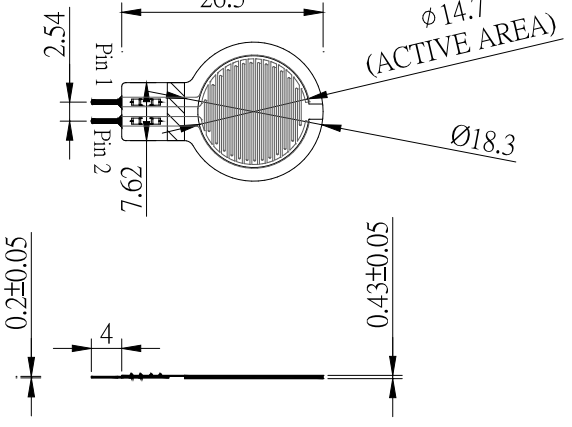
14.7mm Circle Active Area

## Application

✓ Fitness, Medical, Industrial and many others

## Feature

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

Order Code	Outline Drawing
<p>MF01A-N-221-A01</p> 	 <p>Dimensions: 56.3 (total length), 2.54 (pin 1 offset), 7.62 (pin 2 offset), 0.2±0.05 (thickness), 4 (lead length), 0.43±0.05 (height), Ø14.7 (ACTIVE AREA), Ø18.3 (outer diameter).</p>
<p>MF01A-N-221-A03 (without adhesive)</p> 	 <p>Dimensions: 56.3 (total length), 2.54 (pin 1 offset), 7.62 (pin 2 offset), 0.2±0.05 (thickness), 4 (lead length), 0.38±0.05 (height), Ø14.7 (ACTIVE AREA), Ø18.3 (outer diameter).</p>
<p>MF01A-N-221-A06</p> 	 <p>Dimensions: 26.5 (total length), 2.54 (pin 1 offset), 7.62 (pin 2 offset), 0.2±0.05 (thickness), 4 (lead length), 0.43±0.05 (height), Ø14.7 (ACTIVE AREA), Ø18.3 (outer diameter).</p>


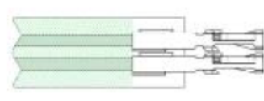
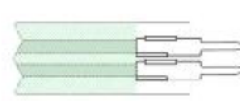
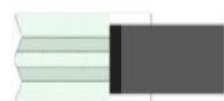
# Membrane Force Sensor



14.7mm Circle Active Area

INSPECTION ITEM	SPECIFICATION
FORCE SENSITIVITY RANGE	30g~1000g (0.3N~9.8N)
FORCE RESOLUTION	Continuous(Analog)
STAND-OFF RESISTANCE (UNLOADED)	>20MΩ
FORCE REPEATABILITY (SINGLE PART)	2%
FORCE REPEATABILITY (PART TO PART)	5%
RESPONSE TIME	<1ms
LONG TERM DRIFT	<10% log10(time)
HYSTERESIS	10%
LIFE CYCLE (WITHOUT FAILURE)	>5 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.

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