

# MEMBRANE KEYBOARDS



## Non Tactile Membrane Keyboard

General Spec: Overlay with flat surface finish, circuit spacer, printed circuit, rear adhesive. Depending on tracking and needs of the product a double circuit could also be employed. Tactility can be defined by the materials that are employed and size and shape of the switching spaces.

## Tactile Membrane Keyboard

General Spec: Overlay or Silicone Rubber Keypad with emboss, snap dome or both, circuit spacer, printed circuit, rear adhesive. Depending on tracking and needs of the product a double circuit could also be employed. Tactility can be achieved through various combinations of height and diameter of the snap dome and/or

emboss type including Pillow, Dome and Rim plus employed materials.

## PCB Based Membrane Keyboard

General Spec: Can be constructed in a similar manner to the above. A PCB based keypad can offer more tracking options, increased robustness, additional electronic components and mechanical fastenings.

### Additional options:

- Panel mounted.
- Insert legends.
- Cable Assemblies.
- EMC/RFI Screened.
- Integral SMT components.
- Design from concept through to production manufacture.

Typical	Non Tactile Membrane Switch	Membrane Switch Tactile	PCB Based Non Tactile	PCB Based Tactile
<b>Actuation Force (g)</b>	50-500	350-450	50-500	350-450
<b>Switch Life</b>	3 000 000	1 – 3 000 000	3 000 000	1 – 3 000 000
<b>Switch Contact</b>	SPST Normally Open	SPST Normally Open	SPST Normally Open	SPST Normally Open
<b>Contact Rating</b>	30 VDC 100 MA 1 WATT	30 VDC 100 MA 1 WATT	30 VDC 100 MA 1 WATT	30 VDC 100 MA 1 WATT
<b>Contact Bounce</b>	<10 MS	<20 MS	<10 MS	<20 MS
<b>Contact Resistance</b>	<100 OHMS	<100 OHMS	<100 OHMS	<100 OHMS
<b>Capacitance</b>	<20 PF	<20 PF	<20 PF	<20 PF
<b>Operating Temp</b>	-30C-+60C	-30C-+60C	-30C-+60C	-30C-+60C

*These figures should be used as a general guide only and will vary according to design and product.*