

Membrane Switches Data Sheet.

All of our membrane switches are custom designed and manufactured to meet customer specifications. During design process, we consider many variables including :

- Operating environment
- Base plate material & surface finishing
- Terminal tail configuration
- Circuit layout
- Shielding requirement
- LED types
- Key size & force

Mechanical Specifications

- Tactile dome actuation : 170g to 420g
- Switch traveling : 0.178mm to 0.89mm
- Typical operating life : 1 millions, depend on design
- Overall thickness : varies by material (typical 0.8mm)
- Tooling : metal die (tolerance : +/- 0.1mm)
- Tooling : steel rule die (tolerance : +/-0.25mm)
- Embossing type : pillow, rim & dome

Electrical Specifications

- Conductive material : conductive silver / carbon
- Voltage : 30VDC
- Rated current / voltage : 20mA @ 30VDC
- Contact bounce : 10ms (typical)
- Contact loop resistance : < 100ohms (depend on design)
- Printed dielectric strength : 100Mohm (without cross over)
10Mohms (with cross over)
- Terminal type : Nicomatic / FCI Berg / AMP

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Environment Specifications

- Humidity : 0 to 93%
- Operating / storage temperature : -20°C to 50°C

Special features

- Custom design flexibility
- Long life at low cost : 1 million switch actuation
- Custom switch features : embedded LED, components and etc
- Protection against ESD / EMI / RFI.
- Sealability : sealed against various type of environments
- Constant protection against bacterial contamination(selective substrate)

Applications

- Home appliance
- HMI human machine interface
- Medical equipment
- Industrial equipment

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