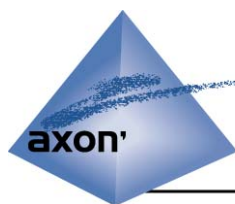




Membrane switches



addix

ELASTOMERIC COMPONENTS

MEMBRANE SWITCHES

Membrane switches are situated on the upper box and connected to printed circuit board. Membrane switches are most commonly found on appliances used in the telecoms, automotive, electrical appliances and cash transaction devices.

TECHNICAL CHARACTERISTICS

Material

- Insulation material : PET, PI.
- Contact surface : carbon and silver printed contacts , aluminium or silver metal domes.
- Non flammability : UL94 HB, HB-standard and V0.
- Standards : UL, CSA, MIL.

Mechanical specifications

- Stroke/travel : 0,15 mm to 0,76 mm.
- Actuation force : 100 to 600 gr.
- Flexlife : 0,5 to 2 million cycles.
- Tolerances : $\pm 0,1$ mm for production and $\pm 0,2$ mm for prototypes

Electrical specifications

- Power : 1,5 W max
- Contact resistance : ~ 100 Ohms.
- Insulation resistance : 20 to 100 mOhms
- Operating voltage : 30 V. DC max
- Operating power : > 50 mA
- Contact rebound time : 3-10 msec.

Environmental specifications

- Operating temperature : -40°C to $+180^{\circ}\text{C}$.
- Storage temperature : -40°C to $+200^{\circ}\text{C}$.
- Resistance : ozone, UV and chemical products.

Options

- Short tactile effect.
- Possibility of different printing colours for symbols and membrane.
- Waterproof protection.
- Keyboard with low thickness.
- Membrane switch with cable and connectors possible.

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