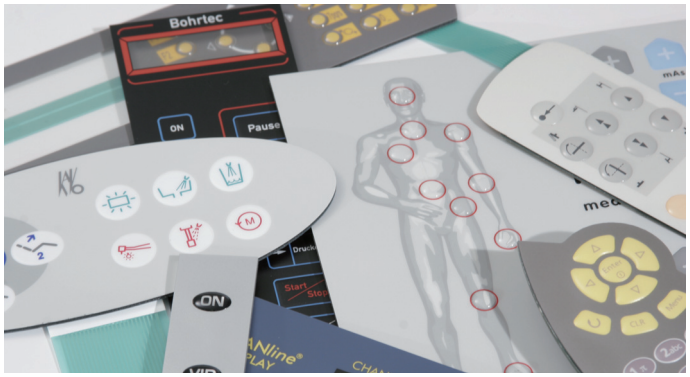
Hoffmann+ Krippner

DATA SHEET

Membrane keyboards



Features

- Membrane keyboards for all applications
- Sealed front
- Easy to clean, variable design
- Durable and robust

Almost any design concepts can be realised using membrane keyboards. With or without tactile feedback, rigid or flexible - membrane keyboards can offer precisely the features required for a particular application. Membrane keyboards with pressure points ensure clear and low-bounce switching behaviour, however the keys are operated. The shape of the contact fields guarantees secure contact with clear feedback. The highest demands for reliability in almost current-free switchings can be fulfilled via the double-sided contact gold-plating for rigid designs with circuit boards.
We provide membrane keyboards with replaceable insert strips for country-specific labelling.

Keyboards can be adapted to the current labelling variant in a matter of minutes. And of course the life cycle of well over 1 million switching cycles is guaranteed.

Switching

- Matrix key arrangement, combined control wires or electronics acc. wiring diagram
- Contact pairs acc. keyboard type, with and without tactile feedback
- Contact springs X 12 CrNi 177 one-sided 0,2 µm Ni, 0.2 µm Au

Front membrane

- Front foil membrane polyester matt and gloss, Polyflex 030

Shielding

- Imprinted holohedrally with silver, between design foil membrane and electrical switching mechanism

Flat input systems

- Pressure point keyboards in GT technology
- Standard PC keyboards
- Keyboards in night design
- Keyboard controller and software development
- Keyboard combination with touch screen
- Keyboards with sensor technology
- Operating systems for heavy duty areas
- Complete, customer-tailored solutions

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Technical data according to DIN 42 115

Conductor and contact materials	Gold, silver, copper, carbon
Switching voltage (max.)	AC 25 V, DC 42 V
Switching current (max.)	100 mA
Switching capacity (max.)	1 W
Insulation resistance	> 2 x 10^8 Ohm
Life cycle	> 1 x 10^6 switching cycles
Electrical strength between any connections	Up RMS = 300 V
Electrical strength between all connections and a metal supporting plate	Up RMS = 500 V
Electrostatic strength	Ustat = 15 kV (by arrangement)
Bounce time	< 5 ms
Contact travel	0.3 - 0.6 mm
Actuation force without contact element	2 - 5 N
Actuation force with contact element	d = 12 mm, optional 2N or 3N; d = 8 mm, 2.5 N
Key spacing with contact element	d = 12 mm, from 16 mm; d = 8 mm, from 10 mm
Mechanical load	100 N, duration 60s
Measurement requirements	Up to 250 mm, ± 0.25 mm Up to 500 mm, ± 0.5 mm Up to 500 mm, ± 0.75 mm

Climatic characteristic values

Operating temperature	- 40 °C to 70 °C
Storage temperature, de-energised	-40 °C to 85 °C
Transport	Acc. technical construction

None of the features in any technical data are guaranteed, but may deviate dependent on customer-specific design.

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