

Membrane keypads

Transparent polyester films of various thicknesses, structured and with a non-reflecting coating, with viewing windows that are either crystal clear or have an antiglare coating, with cut-outs for screens and displays, with backlit effect for light-emitting diodes and LED displays, electroluminescent film, with flat and embossed keypads or keypads with embossed edges, without mechanical pressure point or with tactile feedback, self-adhesive or permanently bonded to a carrier plate made from aluminium, sheet steel or plastic.

Lettering (in every imaginable colour) applied to the back by means of screen printing, transparent or exchangeable thanks to the use of insertable labels.

With punched out sections, drilled holes, milled pockets, fastening by means of studs or sockets, press-fitted or welded.

With such a huge range of production processes at our disposal, we can meet your every requirement and offer a vast array of options for creating bespoke solutions.



Our membrane keypads ensure problem-free operation.

Technical data

Contact material

Silver conductive paste applied using the screen printing technique, graphite printed onto contact surfaces

Switching element

Snap disc (metal dome)

Min. operating force

3 to 5 N (other values possible, if front foil is embossed or if inserts are going to be used over the keys.)

Max. operating force

50 N

Switching voltage

Min. 100 mV AC/DC, max. 25 V AC/42 V DC

Switching current

Max. 100 mA

Switching capacity

Max. 0.6 W

Contact resistance

Depends on the length of the printed conductor

Insulation resistance

Between adjacent conductors and across open contacts > 106 Ω

Dielectric strength

Between any terminals and across open contacts U = 300 V

Electrostatic dielectric strength

Ustat > 10 kV

Endurance

> 106 operating cycles

Bounce time

< 3 ms

Operating temperature

-20°C to +55°C

Storage temperature

-30°C to +70°C

Air humidity

65% at +60°C indoors

Degree of protection

IP 65 (from the front) on request

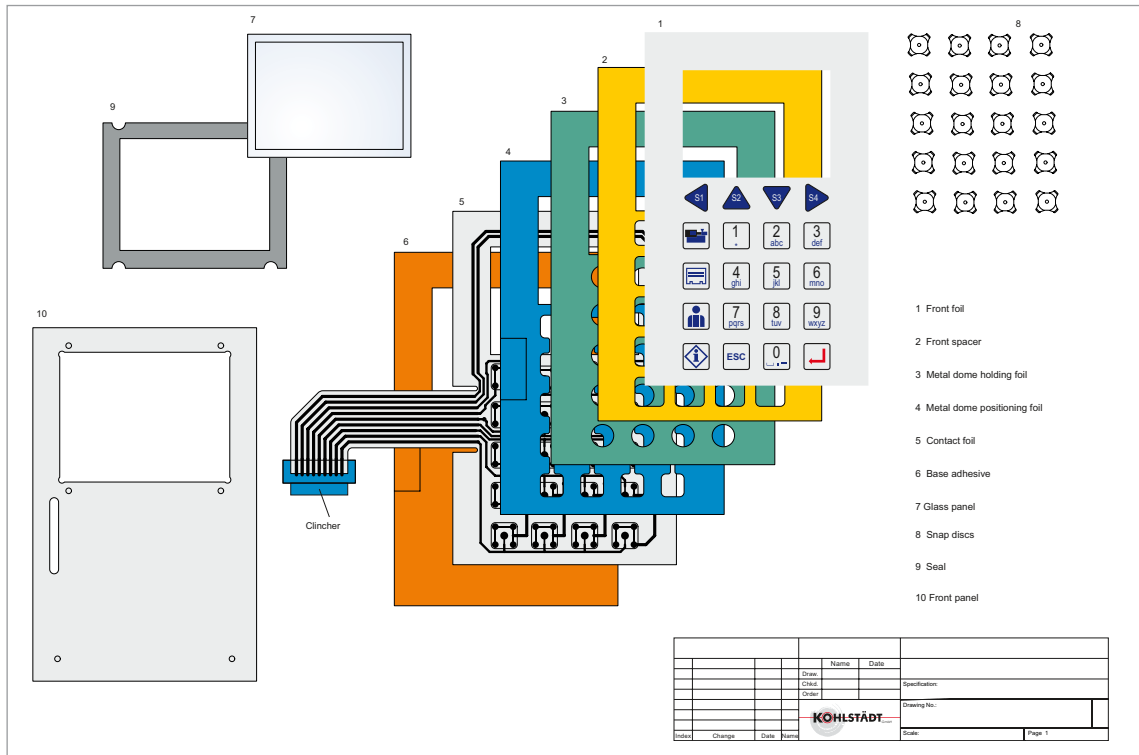
Minimum bending radius of connecting lead

1.5 mm

Options

Various SMD components, SMD LEDs and resistors available on request

Membrane keypad structure



Cross section

