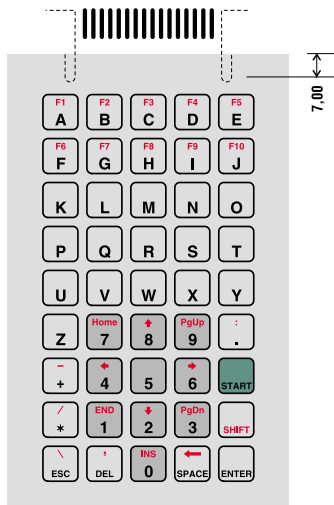


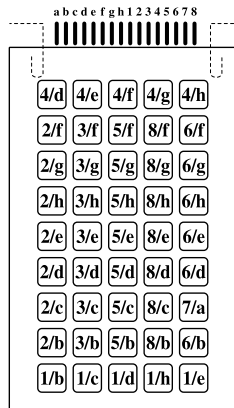
STANDARD MEMBRANE SWITCHES

TS 523 2196

Membrane switch:

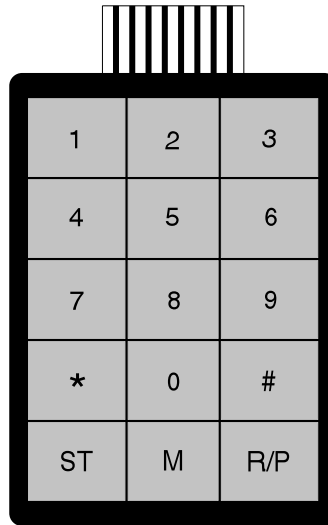


Switch pinout:

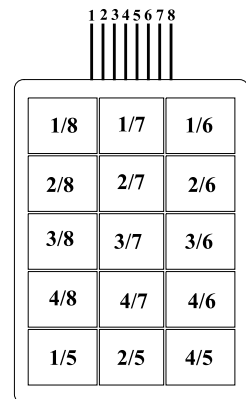


TS 523 3015

Membrane switch:



Switch pinout:



Specification:

Number of keys	45
Key pitch	13.2 mm
Embossing	rim embossing
Overall dimensions	84.5 x 135.4 mm
Flex-tail length	100 mm
Number of flex-tail traces	16
Flex-tail termination	pins (standard)
Number of colours	5

Mechanical characteristics:

Tactile response	metal dome
Actuation force	3 - 4 N
Life cycle	> 10 ⁵ cycles
Storage temperature	-40 / +80 °C
Operating temperature	-25 / +80 °C
Ingress protection	IP 65

Electrical characteristics:

Max. operating voltage	25 V DC
Max. operating current	25 mA DC
Contact resistance	approx. 1 Ω/cm of trace
Insulation resistance	10 ⁷ Ω min.

Termination options: pins (standard)
female contacts

Colours: light grey (background, keys)
dark grey (numeric keys)
green (START key)
red (SHIFT, upper-case characters)
black (lower-case characters, rims)

Note:

Characters, colours, flex-tail length and termination can be modified for an extra charge.

Specification:

Number of keys	15
Key pitch h/v	15/12 mm
Embossing	dia. 7 mm
Overall dimensions	51 x 70.5 mm
Flex-tail length	45 mm
Number of flex-tail traces	8
Flex-tail termination	pins (standard)
Number of colours	2

Mechanical characteristics:

Tactile response	polydome
Actuation force	1.5 - 2 N
Life cycle	> 5 x 10 ⁵ cycles
Storage temperature	-40 / +65 °C
Operating temperature	-25 / +65 °C
Ingress protection	side exit of flex-tail- IP 64 is not guaranteed

Electrical characteristics:

Max. operating voltage	25 V DC
Max. operating current	25 mA DC
Contact resistance	approx. 1 Ω/cm of trace
Insulation resistance	10 ⁷ Ω min.

Termination options: pins (standard)
female contacts
ZIF connectors
(pitch: 2.54, 1.27, 1.00 mm)

Colours: silver (background)
black (characters, rims)

Note:

Characters, colours, flex-tail length and termination can be modified for an extra charge.