MD and MDP Key Switches



The disc contact type ED is a momentary key switch with short travel and good tactile feedback.

The ED is the main component of the MD and MDP switches.

MDP-Disc push-button key switch

Small momentary key switch equipped with button, can be mounted on printed circuit board.

MD-Disc push-button key switch

Small momentary key switch including a protective rubber actuator.

A wide range of keyboards can be built by using the MD.

MD and MDP key pads are available in two contact materials:

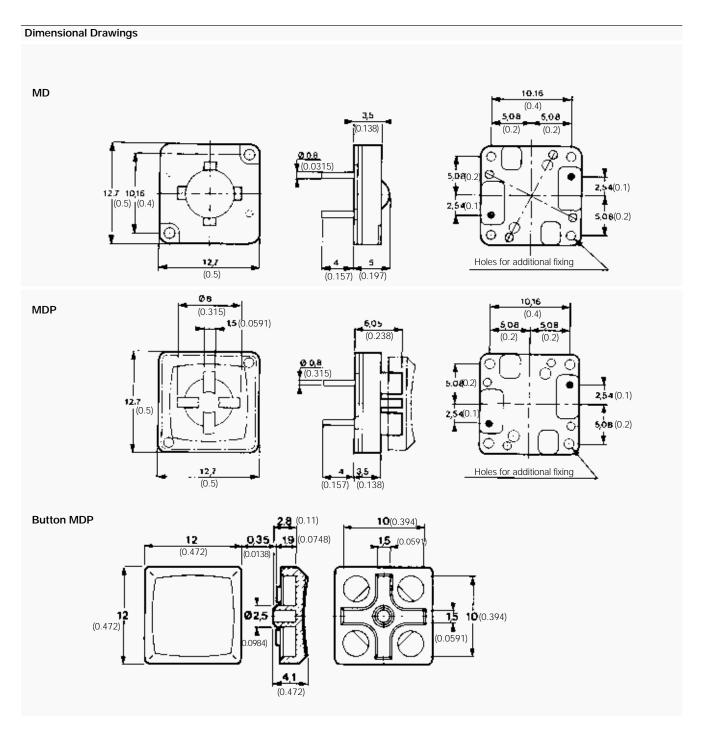
- gold plated bronze
- silver plated bronze

Construction		
Function	Momentary	
Contact arrangement	1 make contact = SP	ST
Distance between button centers, min.	12.7 (0.500)	
Terminals	PC pins	
Electrical data	Silver	Gold
Switching power max.	6 W AC/DC	3 W AC/DC
Switching voltage max.	100 V AC/DC	100 V AC/DC
Switching current max.	100 mA AC/DC	50 mA AC/DC
Dielectric strength (50 Hz/1 Min.)	300 V	300 V
Operating life with MD	≥ 10 ⁶	$\geq 5 \times 10^6$
max. switching power MDP	$\geq 2 \times 10^5$	$\geq 2 \times 10^5$
Contact resistance, initial	\leq 10 m Ω	\leq 15 m Ω
Insulation resistance	$\geq 10^{11} \Omega$	$\geq 10^{11} \Omega$
Contact bounce	≦ 100 μs	≦ 100 μs
Mechanical data	MD	MDP
Switching travel	0.6 (0.0236)	0.3 (0.0118)
Operating force	2.6N ± 25% (260 grams ± 25%)	2.4N ± 25% (240 grams ± 25%)
Further data		
Contact material	Silver, Gold	
Operating temperature	$- 25^{\circ}\text{C to} + 70^{\circ}\text{C}^{1}$	
Storage temperature	- 40°C to + 85°C	
Climatic category (days)	10 for silver version 56 for gold version	-
Soldering by static bath	255°C for 5 seconds	

¹) Special design for ambient temperature – 40°C to + 85°C (Type MD40) available (not washable in solvents) Note: MD40 disc keyswitch conforms to climatic category 40/85/56.



MD and MDP Key Switches



Ordering code		1	2	3
	Example:	MD	AG	04
1	Designation: MD, MDP, MD40	—	A	A
2	Contact material: AG = silver, AU = gold			
3	MDP button color: 01 = black, 02 = white, 03 = red, 04 = light grey, 05 = dark grey, 07 = blue	,	-	



Dimensions are shown in mm (inch)
Dimensions subject to change