

Duraswitch PushGate Large Key Keyboard :

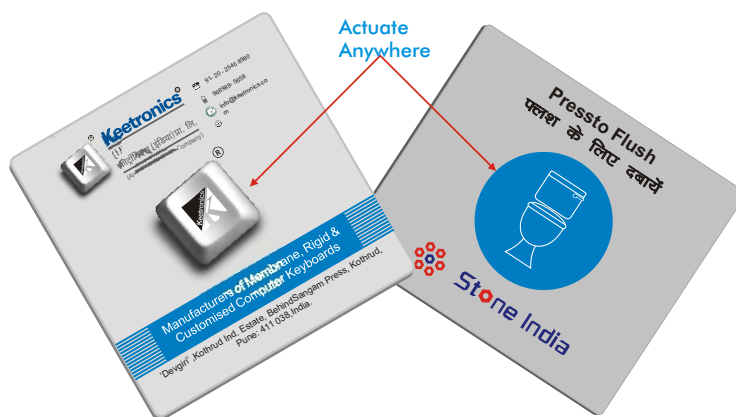
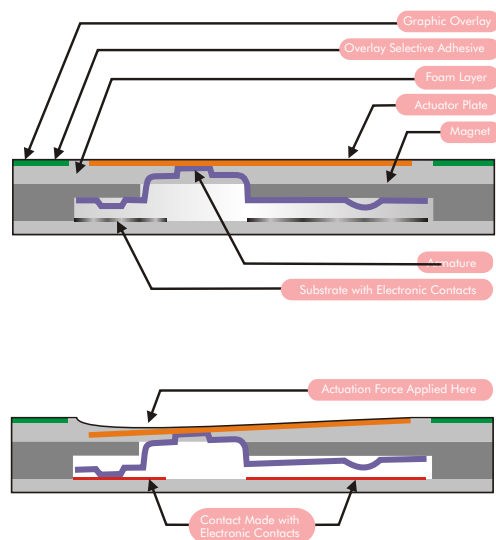
Large Key Pushgate Construction

A Patented Technology From Duraswitch U.S.A. :

- Customizable active key area up to 2" x 2" (50mm x 50mm)
- Tactile feel across entire area of the switch
- Tactile feel does not degrade over time or use
- Integratable with standard pushbuttons and rotary switches
- Flex circuit or PCB compatible

Mechanical	PCB Applications	Flex Circuit Application
Thickness (Typical)	0.145" / 3.7mm	0.086" / 2.2mm
Switch Armature Spacing	0.500" / 12.7mm	0.500" / 12.7mm
ESD/EMI/RFI Shielding	Center Spacing Capable	Center Spacing Capable
Life	>30 Million Actuation Constructions Available	>30 Million Actuation Constructions Available
Typical Actual Variance	No Noticeable Difference	No Noticeable Difference
Switch Travel	0.012" / 0.3mm	0.012" / 0.3mm
Contact Bounce	1ms Typical	1ms Typical
Actuation Force	625 Armature 10oz. / 284gm / 2.8n 406 Armature 8oz. / 227gm / 2.2N	625 Armature 10oz. / 284gm / 2.8n 406 Armature 8oz. / 227gm / 2.2N

Electrical	PCB Applications	Flex Circuit Application
Operating Voltage	- 50 VDC or AC Peak	- 30 VDC or AC Peak
Current	50 mA	20 mA
Power	1.5 W	0.6 W
Switch Resistance	Less Than 2 ohms Initial	Less Than 100 ohms Initial



Material	PCB Applications	Flex Circuit Application
Magnetic Material	Bonded Ferrite	Bonded Ferrite
Armature Material	1008/1010 Steel With Silver Plating	1008/1010 Steel With Nickel And Electro-Tin Plating

Example applications include :

- Gas pump octane selections
- Exercise equipment
- Industrial controls (Emergency Stop)
- Handicap entrance buttons
- Vending machines

Mechanical	PCB Applications	Flex Circuit Application
Storage	-40°C to 85°C	-40°C to 85°C
Operating Temperature Standard Construction	-40°C to 85°C	-40°C to 85°C
Operating Temperature Extreme Construction	-54°C to 105°C	-54°C to 105°C
Positive Pressure Extreme Construction	+5psi	+5psi
Attitude	40,000 ft	40,000 ft
Thermal Shock	-40°C to 85°C	-40°C to 85°C
Humidity Resistance	95% RH	95% RH
Salt Fog, 5%Solution	24 Hours	24 Hours
Shock	100g	100g
Drop	3 Feet	3 Feet

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