



DURASWITCH KEYBOARD DATASHEET

LARGE KEY PUSHGATE CONSTRUCTION

A Patented Technology From Duraswitch U.S.A.

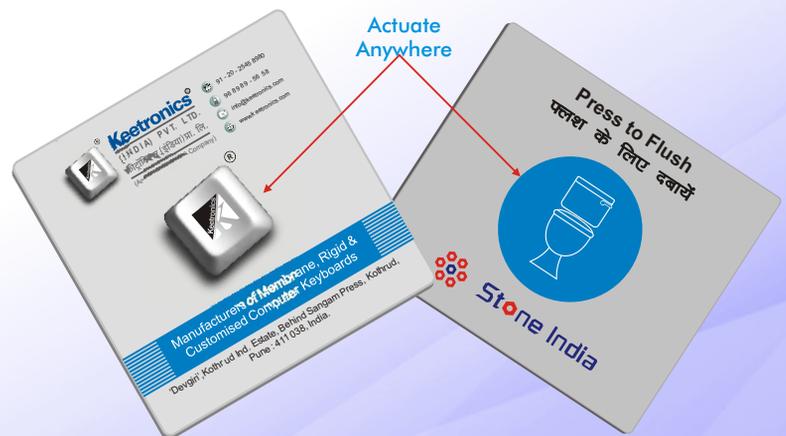
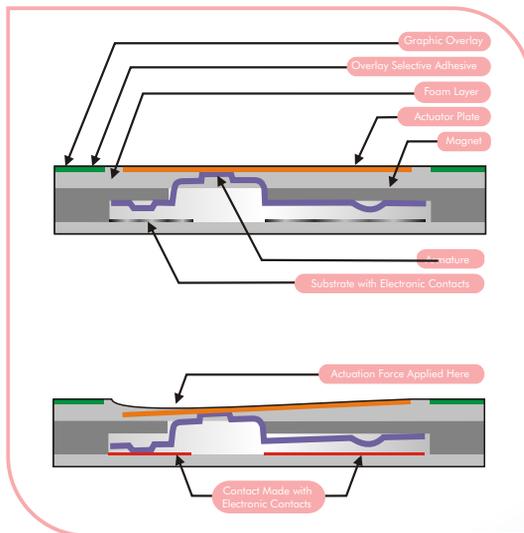
- ◆ Customizable active key area up to 2" x 2" (50mm x 50mm)
- ◆ Tactile feel across entire area of the switch
- ◆ Tactile feel does not degrade over time or use
- ◆ 30 million plus actuations
- ◆ Flex circuit or PCB compatible
- ◆ Integratable with standard pushbuttons and rotary switches

Mechanical	PCB Applications	Flex Circuit Application
Thickness (Typical)	0.145" / 3.7mm	0.086" / 2.2mm
Switch Armature Spacing	0.500" / 12.7mm Center Spacing	0.500" / 12.7mm Center Spacing
ESD/EMI/RFI Shielding	Capable	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	1 ms Typical	1 ms 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	3 - 50 VDC or AC Peak	3 - 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

Environment	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



Example applications include :

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

PushGate®

Our New Large Key Construction