

PushGate™

Push button switch that provides the thin design of a membrane switch with the tactile feel of a mechanical switch.

CRISP, CONSISTENT TACTILE FEEL

- Superior tactile feel does not degrade over time or use
- Set your product line apart from your competition by giving your keypad a high-quality feel

DURABILITY AND RELIABILITY

- 30 million plus actuations
- High impact and vandal-resistant designs available
- Ideal replacement for tac or metal dome switches
- Impossible to "tease", (Click=Closure)
- No bending or flexing parts to fail

INTEGRATION

- Easily integrated with other switch products including thiNcoder™ RT and MagnaMouse product lines
- Flex circuit or PCB compatible

SAVE COSTS

- Eliminate costly wire harnesses from your electrical designs

VARIOUS OVERLAY OPTIONS

- Perfect for polyester or elastomer overlays, as well as metal and plastic key caps
- Can be used in conjunction with Duraswitch's patented magnetically coupled removable overlay

FULL KEY ILLUMINATION OPTIONS

- Maintains crisp tactile feel with EL, Fiberoptics, and LED backlighting

CAN BE ENVIRONMENTALLY SEALED

- Superior performance in harsh environments

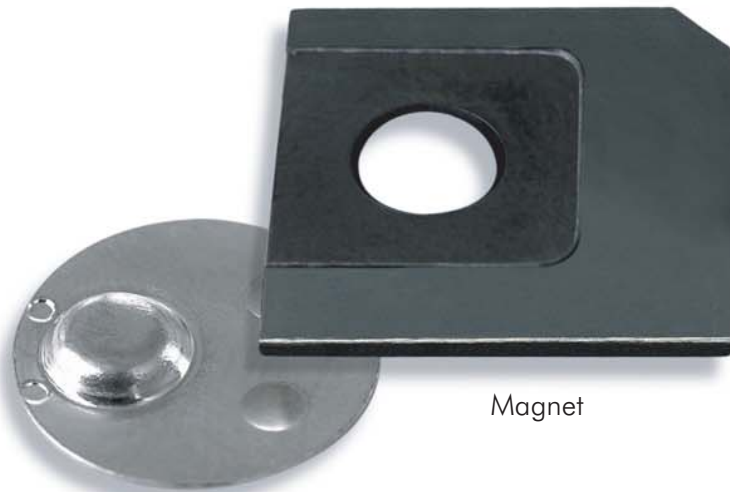
RAPID ACTUATION RESPONSE

- Fast actuation capability

ABLE TO TOLERATE EXTREME TEMPERATURES

CUSTOMIZED DESIGN OPTIONS

- Normally closed or open designs
- Dual output available for redundancy or multi-function switching
- Multiple armatures and constructions available for various key sizes and spacing



Armature

Magnet



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DURASWITCH
The world is switching.®

U.S. PAT. Nos. 5,523,730; 5,666,096; 5,867,082; 5,990,772; 6,023,213; 6,069,545
6,069,552; 6,130,593; 6,137,387; 6,262,646; 6,305,071; 6,369,692

CANADA PAT. No. 2177540

CHINA PAT. No. ZL96110385.X

TAIWAN PAT. No. NI 090979; NI 132948

AUSTRALIA PAT. No. 727962

PushGate™

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 Constructions Available	>20 Million Constructions Available
Typical Actuation 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	3 - 50 VDC or AC Peak	3 - 30 VDC or AC Peak
Current	50mA	20mA
Power	1.5W	0.6W
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 Nickel and Electro-Tin 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	-40°C to 85°C	-40°C to 85°C
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



406 Armature



625 Armature



625H Armature

