

Large Key PushGate®

The Large Key PushGate construction allows for up to a 2" x 2" key with a single crisp consistent tactile feel across the whole actuator area.

It can be used in a variety of applications such as:

- Gas pumps;
- Industrial controls (emergency stop);
- Handicap entrance buttons;
- Exercise equipment;
- Vending machines.



Handicap entrance buttons



Gas pumps

Key benefits of the Large Key PushGate®

- Customizable active key area up to 2" x 2";
- The entire area of the switch is active;
- Uniform tactile feel across face of keys;
- Can be integrated with push-buttons and rotary switches;
- Tactile feel does not degrade over time or use;
- 20 million plus actuations;
- Flex circuit or PCB compatible.



Exercise equipment

Please refer to the PushGate advantages sheet for further details.



Get all the benefits
of the PushGate® over
a larger surface

| Mechanical | PCB applications | Flex circuit application |
|--|---|---|
| Thickness (typical) | 0.145"/3.7 mm | 0.086"/2.2 mm |
| Switch armature spacing | 0.500"/12.7 mm centre spacing | 0.500"/12.7 mm centre spacing |
| ESD/EMI/RFI shielding | Capable | Capable |
| Life | >30 Million actuations construction available | >30 Million actuations construction available |
| Typical actuation variance | No noticeable difference | No noticeable difference |
| Switch travel | 0.012"/0.3 mm | 0.012"/0.3 mm |
| Contact bounce | 1ms typical | 1ms typical |
| Actuation force | 625 armature 10 oz./284 gm/2.8 N 406 armature 8 oz./227 gm/2.2 N | 625 armature 10 oz./284 gm/2.8 N 406 armature 8 oz./227 gm/2.2 N |
| 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 |
| Bonded Ferrite | 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 |
| Altitude | 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 | 100 g | 100 g |
| Drop | 3 feet | 3 feet |