

MagnaMouse™

This next-generation technology allows for the integration of cursor control devices into ultra-thin, durable control panels.

LONG LIFE

- 1 million plus actuations

DURABLE AND RELIABLE

- No mechanical parts to wear or break
- Performs in environments where trackballs and touch pads fail
- Maintenance free

LOW COST

- Fewer parts mean lower costs
- Integration means lower manufacturing costs

ENVIRONMENTALLY SEALED

- Superior performance in harsh environments

SELF-CENTERING

- No unintentional cursor movement

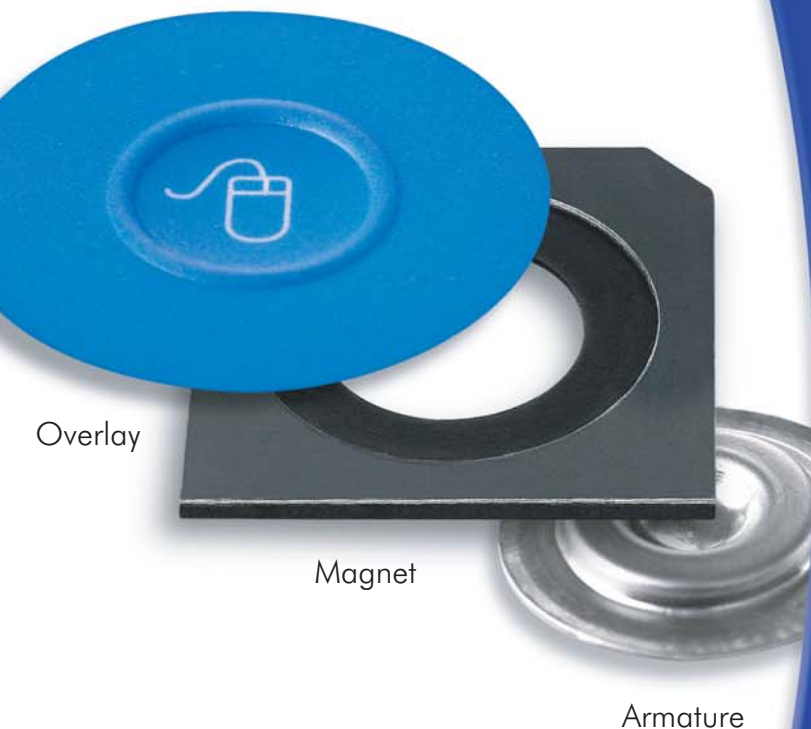
INTEGRATION

- Easily integrated with other switch products including PushGate™ and thiNcoder™ as well as dome and membrane switches into one thin panel
- No secondary assembly process needed

VARIOUS DESIGN OPTIONS

- Digital or analog
- Flat panel polyester, rubber or hard key cap overlays

LOW PROFILE REPLACEMENT FOR ROTARY SWITCH



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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

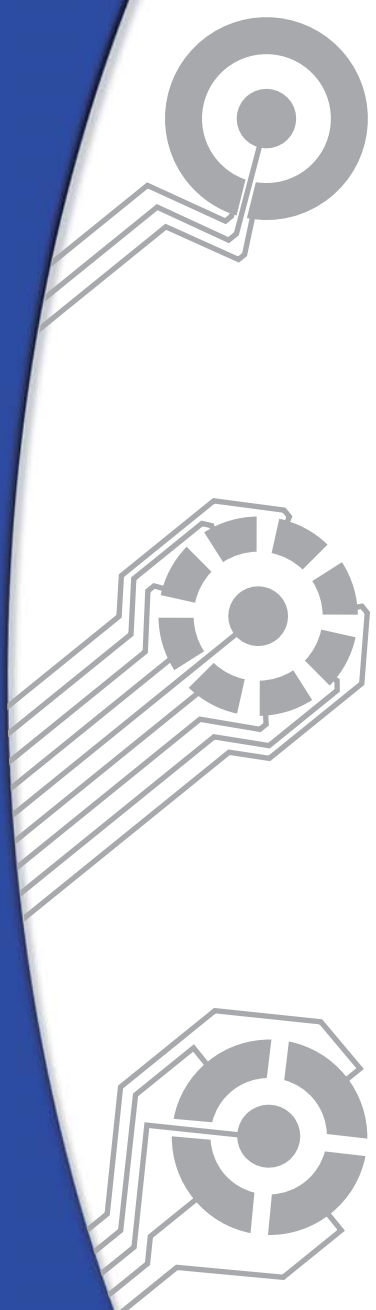
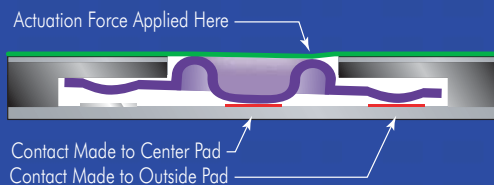
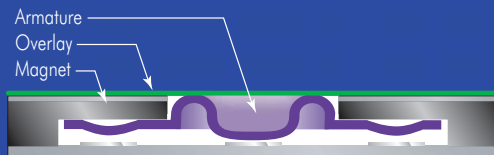
CHINA PAT. No. ZL96110385.X

TAIWAN PAT. No. NI 090979; NI 132948

AUSTRALIA PAT. No. 727962

MagnaMouse™

Mechanical	Flex Circuit Application
Thickness (Typical)	0.086" / 2.2mm
Size	1.0" / 26mm Square
ESD/EMI/RFI Shielding	Capable
Life	1 Million Actuations
Switch Travel	0.012" / 0.3mm
Contact Bounce	1ms Typical
Actuation Force	2 - 3oz. / 56 - 85gm / 0.6 - 0.8N Typical
Material	Flex Circuit Application
Magnetic Material	Bonded Ferrite
Armature Material	1008/1010 Steel with Nickel and Electro-Tin Plating
Electrical	Flex Circuit Application
Voltage	3 - 30 VDC or AC Peak
Current	20mA
Power	0.6W
Switch Resistance	Less Than 100 ohms Initial (Digital)
Environment	Flex Circuit Application
Storage	-40°C to 85°C
Operating Temperature	-40°C to 85°C
Thermal Shock	-40°C to 85°C
Humidity Resistance	95% RH
Salt Fog, 5% Solution	24 Hours
Shock	100g
Drop	3 Feet



Circuit: 360 degree Analog (Resistive)
Attributes: Used in applications which require the highest directional resolution.

Circuit: 8 Selection Digital
Attributes: Used in applications where 8 or 16 pointing directions are needed for multi-directional movement. Also used for 8 distinct contact points.

Circuit: 4 Selection Digital
Attributes: Used in applications where 4 or 8 pointing directions are needed for multi-directional movement. Also used for 4 distinct contact points. This is similar to current mouse technology in the market place today.