

November 2008

## Looking for a switching solution in your smart card?

Look no further, NICOMATIC has the solution :

**P-SWITCH™** is the best **tactile button** for smart cards.

Thanks to its long established knowledge in the metal dome switching technology, NICOMATIC has developed and patented the Pinching Switch :

**P-SWITCH™** solution has been designed for the smart card business and industry. The **P-SWITCH™** is made to fit ultra-thin environment size requirements and adapt to fully automated Pick and Place systems. It is suitable to all card assembling processes with built-in electronics.

The **P-SWITCH™** must be pinched simultaneously on both sides. Its use provides an accurate and effective tactile feeling. It also insures the electrical signal integrity and offers a very long life expectancy. The overall **P-SWITCH™** thickness meets the card market standards thanks to a preloading at the lamination step of the process.

All technical features of the **P-SWITCH™** were determined to meet the specific requirements of smart cards manufacturers: adapted size of 8.5 mm diameter, thickness of 0.5 mm, pinch stroke of 0.34 mm. The **P-SWITCH™** has a long life expectancy (5 mio actuations) with an actuation force of 190 gr. The rated voltage can be up to 100 V at a current of 1 A.

The **P-SWITCH™** is mainly dedicated to powered smart cards, but it can also apply to contactless cards with security high level requirements, such as One Time Password Identification cards, financial transaction cards, tracking cards...

The **P-SWITCH™** button offers a unique tactile feel, ultrathin design, various sizes and thicknesses and stable forces. Its extra long life cycles extend the smart card life expectancy.

