

Robust, intelligent tactile switch

Marketing Opportunity

Standard capacitive touch sensors have many disadvantages. They can not be covered with metal, water can affect their proper functionality, Braille symbols can not be used, etc.

We offer a new, innovative approach in design of tactile switches. Our switch has integrated touch/pressure sensor and all of the necessary components. Each switch is also preprogrammed with the unique software. The switch can operate in a standalone mode and also as a key in a keyboard matrix. When the switch operates in the keyboard mode all switches are connected automatically and the user can read and customize the parameters of each key individually by using only two wires.

The switch operates using patented modified capacitive principle instead of the inductive.

Patent Status

This work is the subject of patent application, and we would like to talk to companies interested in developing the commercial opportunity that this represents. Please contact us to discuss this further.

Advantages:

- Unique, self-organize keyboard ability
- Proportional output as well as digital one
- End user can adjust all operating parameters
- Only two wire (plus power supply) interface
- Wide voltage operating range (2.2 - 5.5V)
- Open drain output (24V, 1A)
- End user can customize bulid-in LED behavior and color
- Shock, Impact and Vibration resistant
- Not affected by water, oil or dust
- Extended temperature range operation
- Operate outdoors in any weather condition
- Unaffected by and not a source of electromagnetic radiation
- Can be integrated into display bezels or any material structure

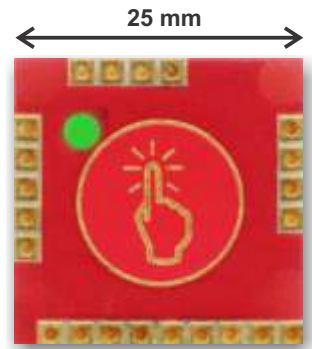
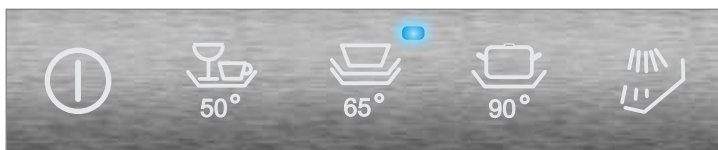
Examples of use

Elevator - switch can be covered with wood

Automotive - high end leather design

Home appliances - metal can be use for front cover

Keyboard - switches are automatically organized into keyboard and any key can be read and customized



Real photograph of our switch

Switch Applications:

- Appliances
- ATM / Vending
- Automotive
- Decorative Lighting Controls
- Elevators
- Faucet / Shower
- Furniture
- Food Processing
- Industrial & Process Control
- Medical / Pharmaceuticals
- Security
- Underwater Environments

