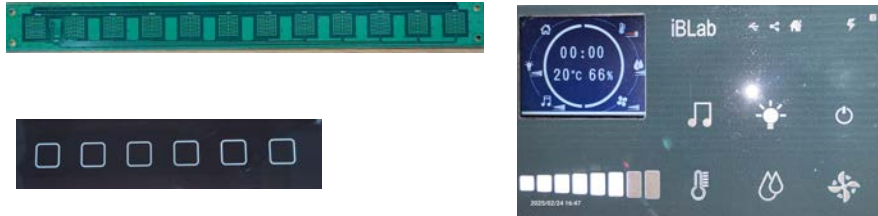


iBF2502 - Enabling PCAP Touch with Stepwise Pressure Sensing

Secure Operation from Selection to Confirmation



It is well known that PCAP offers excellent touch sensitivity, providing an extremely intuitive and effortless operating environment, which is a significant innovation in human-machine interaction. When analyzing human actions and the execution of commands by machine systems, we have identified that for many critical operations, a dual-confirmation mechanism is essential for safety considerations. The iBF pressure-sensing device provides the solution to this. When a finger touches a specific touch key, iBF sends a "selected" signal to the machine. Safety-critical machine systems can delay the immediate activation of the selected function. Instead, when the operator applies a certain level of stepwise pressure on the key, a "confirmation" command is generated, and the machine system then executes the selected function. The iBF mechanism significantly reduces or even eliminates the various operational issues and problems that may arise from accidental touches in PCAP systems.

Specifications and Features:

- Integrated design combining touch and pressure sensing
- Full PCAP light touch functionality
- Stepwise pressure and touch integration
- Can be combined with water-resistant design
- Can be integrated with haptic feedback
- Slim and lightweight, easy for mechanical design considerations
- High quality yet affordable

Specifications :

- PCAP circuit board-style keys
- Dimensions and number of keys: 252mm * 24mm; 10mm * 10mm / Button * 6
- Touch force: 100g ~ 1Kg
- Interface: I2C / RS232
- Optional haptic feedback configuration
- Optional waterproof configuration