Keynote Speaker

User-friendly Switches and Secure Non-contact Switches for Universal Design

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Abstract

A switch is a typical input interface. There are various types of switches according to the purpose and preference. In this speech, I will introduce a film type of touch panel switch that can be bended, added, and deleted. Since the switch is made of a thin film, it can be changed to various shapes and easily painted. Furthermore, even if a part of the touch switch is replaced with a push button or a toggle switch, it operates correctly. This makes it possible to easily create an arbitrary switch according to the preference required by the user. On the other hand, recently, the demand for non-contact switch is increasing. However, non-contact switch sometimes malfunctions when a people approaches it. Thus, I propose a new signal code for non-contact. A waving action is used to do the code. By using the code, it is possible to easily practice a plurality of operations without malfunction.