

## Switch detection device using RFID tag

黃啟光, 王志湖, 田慶誠, 鍾英漢, 李柏坤, 陳棟洲, 吳嘉文, 邱健榮, 顏名慶, 陳竹一

Electrical Engineering

Engineering

bkleee@chu.edu.tw

### Abstract

A switch detection device using RFID tag is disclosed. The switch detection device includes a RFID tag, a conducting circuit loop and a switch connected to turn on or off, leading to the closing or opening of the control circuit. The RFID tag detects the state of the conducting circuit loop and transmits a signal representing the opened/closed state to a RFID reader. The switch detection device is incorporated to a turning operation mechanism which includes a lever lock assembly, an odometer wheel, a hinge provided with a first hinge member and a second hinge member interconnected by a central axle, a door closer, a water faucet, a rotatable switch, or a rotatable lock.

Keyword : RFID