

## **Technical Description:**

### **TRMS-RFS-DS002**

#### **MCU section:**

This is a door-switch detector, detect and control circuit is consisted of U1, R1, R3, R6, R9, C3, and K1, which is a magnetic switch, during the door closed, K1 is closed to the magnet, so K1 switch on; while K1 apart from the magnet will lead K1 switch off to open the door. Once K1 is switch on from off or counter-turn , the level should change from low to high at 5<sup>th</sup> pin of U1 to wake up U2, and through the same pin U1 send data to U2 after it' s wake. Radio indicating circuit is made up of LED1, R7, R8 and Q1, LED1 flashing when emitting.

#### **RADIO SECTION**

This section including U2 and it' s relevant components, carrier wave of 315 MHz is generated by an quartz and inner circuit of U1. The data from U1 would be modulated then radio out via antenna, components of C1, C6, L2, C12 forming antenna network.