

Description of Operation

The EUT is a Z-Wave door sensor, it acts when reed switch(SW1) or tamper switch(SW3A) has been triggered, the MCU(U2) will receive the trigger report and forward it to ZM3102N(U1) via radio frequency to transmit the data to control unit for two-way communication

1. Opening the door/window to separate the magnet from the sensor will send the status of "ON"(Basic Set, Value:0xFF) to any associated nodes, and the LED will flash once.
2. Closing the door/window to align the magnet with the sensor will send the status of "OFF"(Basic Set, Value:0x00) to any associated nodes, and the LED will flash once.
3. Normal operation, the LED will not light.
4. The ZD2102 sensor equipped with tamper switch. If the cover of sensor is removed, the door sensor will send an alarm report (type:01, level:11) to the Z-Wave™ Interface Controller, and the LED will go solid. Before replacing the cover, the sensor is under "Awake" mode.

The device adapts **FSK** modulation. And the antenna was a [Wire Antenna](#),

RF Data rate 9.6 kbps / 40kbps

Modulation Frequency Shift Keying (FSK)

Frequency deviation Center frequency 908.42MHz \pm 20kHz