Magnetic Door Switch

The Zigbee door sensor switch, also named door sensor detector, senses the switch status of doors and windows by detecting the proximity and separation of the magnet, and sends an alarm signal to the Zigbee gateway through the Zigbee communication protocol. This product is suitable for household residences, buildings and villas, factories, shopping malls, office buildings, etc. An example of product appearance is shown in Figure 1.

◉ Features

- Real-time monitoring of door and window switching conditions, and an alarm will be generated immediately when the opening and closing conditions are met.
- Two-way communication with Zigbee gateway via Zigbee 2.4GHz.
- With low voltage alarm function, synchronously upload battery power status.
- Support bottom tamper alarm function.
- With status display LED lights.
- Low power consumption design, long standby time, stable and reliable.
- Support the function of battery icon prompt when the battery power is low.
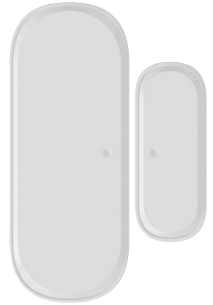

figure 1

◉ Technical parameters

Product Model：EC92
Product number：PB0092BZ00/01/02/03/XX
Product Size：60*23*13mm & 36*14*13mm
Operating Voltage：DC 3V
Working current：Standby current≤5µA; alarm current≤25mA
Communication Protocol：Zigbee 2.4G
Transmission distance：≤130m(open visual distance)
Action distance：>17mm(open)/ <17mm(close)
Alarm Output：Report to Zigbee gateway
Installation method：3M Wall Mount Wall Sticker
Battery Type：Button battery CR1632*2
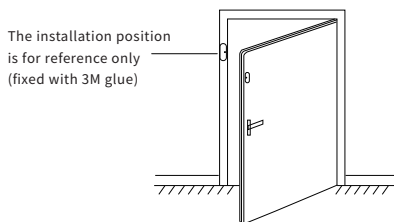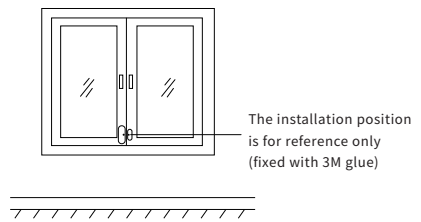Working temperature：-10℃～55℃
Working humidity：≤95%(no condensation)

◉ Installation Notes

1.Select a suitable installation location and fix it with 3M adhesive tape. The product can be installed on doors, windows, etc., as shown in Figure2 .

The installation position is for reference only (fixed with 3M glue)

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Door installation instructions   Window installation instructions

figure 2

◉ Operation and adjustment

1.Initialization state:

After the battery is installed and powered on, the blue indicator light is always on, and the product enters the initialization state; if the Zigbee module is successfully initialized, the blue indicator light is off, and the product enters the normal working state.

2. pairing with ZigBee gateway:

Open Tuya APP, select Zigbee gateway, click add sub-device, then press and hold the device pairing key for 5 seconds, the blue LED indicator flashes continuously, the device resets, and automatically sends a network access request to the Zigbee gateway. After the Zigbee gateway confirms, you can Complete the network access, and prompt the device to add successfully on the APP.

The longest configuration time is 2 minutes. If it times out, it will automatically exit the pairing mode.

3. Restore factory settings:

Long press the pair code button until the blue light flashes quickly, release the button, and the Recovery is successful.
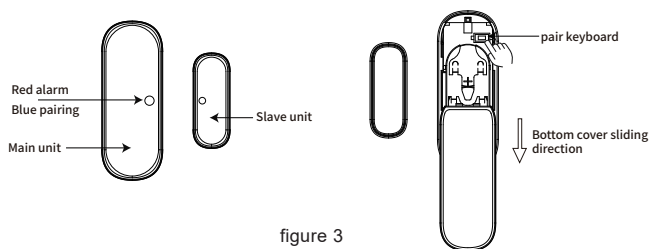
pair keyboard

Red alarm
Blue pairing

Slave unit

Main unit

Bottom cover sliding
direction

figure 3

4. Test mode:

Short press the pairing button, the blue light flashes once, and the battery level information is actively reported.

5. Anti-demolition alarm:

When the device host is removed, the tamper switch will be triggered, the red LED indicator flashes once, and the detector will send a tamper alarm signal to the Zigbee gateway; when the device host is restored, the detector will send a tamper alarm to the Zigbee gateway Release the signal.

◉ Notice

1. The door sensor should not be installed in an outdoor location that is easily damaged.
2. Do not install the door magnetic detector in a place with a weak foundation to avoid false alarms due to loosening.
3. Do not install the door magnetic detector near magnetic objects.