months. When cleaning, it must be power out and be careful in case to harm the mainboard of the detector.

●For wireless products, it will alarm when its voltage lower than 2.1V.

●For standalone products, it will alarm when its voltage lower than 7.0V.

●For network products, the working voltage is 9-16VDC.

ROISCOK WARRANTY

The warranty is promised by ROISCOK Electronics Ltd. and all its partners to all of the users whom ROISCOK products enthusiast.

All products, within 18 months from the date leaving our plant besides the artificial damage, we take charge of the after service or replacement new one freely. After the time limit, we take charge of lifelong paid service. Regardless of the middle process or/and sale link, all of ROISCOK product has the right to enjoy the after service announced here. Any business agent, the dealer or installer has no right to refuse to provide the after service.

For quickly service, we hope the user to fill in "Return Products List" in detail together with the units. The goods may return directly to our company, agent, the dealer or installer. When necessary, the users are welcome send "User Complaint Letter" to us.

The Warranty go into effect from the date of July 1, 2007.

ROISCOK Electronics Ltd. is responsible to explain.

●Fix the bracket by screw;

●Opens the detector's front cover, and finish the connection (Figure 1 and Figure 2) ;

●Inlays the detector to the bracket (Figure 4);

Sensitivity

●Adjust the sensitivity of iDo503CM through the sensitivity knob (Figure 1). Gyrates anti-clockwise reduces the sensitivity, gyrates clockwise increases the sensitivity;

●Adjust the sensitivity of iDo503CMW through pressing the test button (Figure 2). When press the test button, the LED will twinkle. Stop pressing when the LED twinkle one time, the sensitivity would be high; Stop pressing when the LED twinkle two times, the sensitivity is middle; Stop pressing when the LED twinkle three times, the sensitivity is low.

Maintenance

● Suggest to clean the detector every three

LED Indicator

●The LED will flash once for each 70 seconds;

●The LED will flash intermittently when alarm;

●Without the LED flashing indicates the detector has some trouble;

Testing

Depress the test button for 3 seconds, LED start flashing;

It's recommended to test once a week to ensure it working well.

Alarm Restoration

When smoke density achieves or surpasses the limit, the detector will alarm constantly; When smoke density reduces and less than the limit, the detector stopping alarm automatically.

Installation

●Choose the appropriate installation site;

● The inappropriate connection will possibly cause the detector not work well. The connection of iDo503CM as shown in Figure 1:

-12VDC+: power input (black cable and red cable);

Alarm: alarm output, NC (yellow cable and white cable)

Matching for Wireless Product

●Power the detector by power adapter or battery (3VDC) (Figure 3);

● Set the wireless control panel or receiver at matching status;

●Press down the test button more than 3 seconds. The detector will send out a signal for matching;

● After finishing the matching, restores the control panel to working status;

●The detector report its status to the system every 6 hours.

●Wired and wireless available

●Meet the standard UL 217

Technical Data

●Alarm Density: ≤1.42%

●Alarm volume: ≥80dB/m

●Alarm time: ≤10s

●Alarm restoration: ≤30s

● Working voltage: DC12V (iDo503CM) or, 3VDC (iDo503CMW)

●Working Humidity: 10~90%

●Operating current: 20mA (12V)

●Static current: <10uA (iDo503CMW, 3VDC)

●Wireless frequency: 433MHz/868MHz

●Dimensions: Φ140*70mm

Connection for Wired Product

Connection for Wired Product

The iDo503CM and iDo503CMW are designed conforming the standard of GJ3057-1996 and the standard of UL217. Adopt the optoelectronic technology + micro processing technology. When the environment smoke density surpasses the limit, the detector will alarm immediately, including the LED blinking, start the buzzer, and report to the system (receiver or/ and control panel) by wireless or wired signal.

iDo503CM is wired smoke detector, standalone type and network type available.

iDo503CMW is wireless smoke detector, 433MHz/868MHz.

Main Feature

● optoelectronic technology + micro processing technology

● LED instructs the working status, alarm status and trouble

●Alarm output: NC or NO

●Sensitivity adjustable

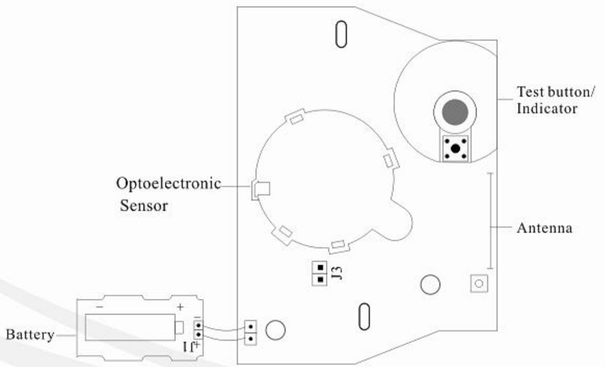

Fig1.iDo503CMW Main board

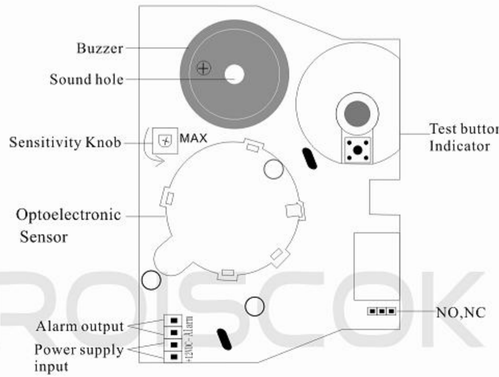

Fig2. iDo503CM Main board

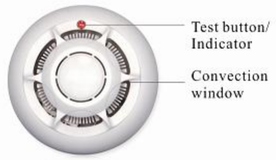

Fig3. Indicator LED and Test button

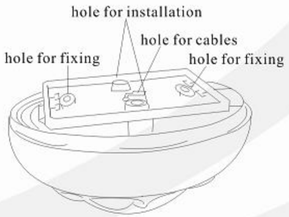

Fig4. Detector bracket

iDo503CM/ iDo503CMW Wired/ Wireless Smoke Detector Manual

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