USER GUIDE

LED walk through metal detector

product performance standards: GB13210-2003

Please carefully read user guide before use product
Product Description

Our company produce digital walk-through metal detector adopts international advanced digital detecting technology which specially applies to the detection of the hidden metal and alloy article on the people. This detector has high safety, good applicability, high sensitivity. The sensitivity of this detector is adjustable which can detect and locate some things as small as a paper clip. The user can configure the detection of this detector according to the size and weight of the metal article to some exclude error alarms for coins, keys, jewelries, belt buckles etc. For some places where needs special attention to the loss of expensive metal articles such as factory, mine, bank and luxury house and other places where should be free of dangerous metal articles such as airport, customhouse, jail, exhibition halls, this detector is the optimum product.
Performance and Features

Detection area: According to the basic structure of the human body, the detector divide into 6 overlapping region, it use mesh detecting ways and single frequency excitation technology, eliminate the weak detection of the region and the blind spot area, it's higher sensitivity and stabler.

Alarm mode: Sound-optical alarm, detect accurately the location of metal objects through alarm LED lights in column.

Regional sensitivity: The maximum sensitivity can detect the metal content of the clip-sized objects, the sensitivity level is between the 0-99 self-regulation and can be detected in accordance with the requirements of all districts to place the appropriate regulator sensitivity, while sensitivity to the overall regulation of the other. Pre-configured metal objects weight, volume, size, position, remove keys, jewelry, belt buckle and false alarm.

Product craft: Using of PVC composite materials and special production process, waterproof and moistureproof, it's luxurious aesthetic appearance and it is more suitable for large-scale public place.

Intelligent and Statistics: Intelligent traffic and alarm count, can automatically count a number of statistic.

Anti-interference ability: Digital, analog and balanced technology to prevent the false alarm and omission, greatly enhanced anti-jamming ability.

Security protection: Using double password protected, allowing only authorized personnel to operate according to the need to modify the password and provide your password to restore lost settings. Automatic storage parameters needn't the use of an uninterruptible power supply protection, it's more safer and convenient.
Electromagnetic radiation: EMC electromagnetic radiation is in line with the standards, the use of a weak magnetic technology, it's no effect to the heart pacemaker wearer, pregnant women, the floppy disk, film and video.

Installation: Metal detector adopts integrated design, only takes 20 minutes to finish the installation or dismantlement randomly with the instruction of installation and debugging.

NOTES

Please read the following carefully before operation:

The following precautions are intending to tell you how to operate this product appropriately and safely. Please read this part carefully and make sure that you understand them completely before you read other parts this manual.

1. This product just can be used inside, if you use it outside, please choose the waterproof material and use the canopy to protect it against rain.

2. No big metal or strong magnetic field around this detector within 2m to prevent interference. If the door near the installation location is metal, please keep the gap between this detector and the gate over 500mm (the gap can be adjust against the gate size). If you install 2 detectors in one place, please note that these 2 detectors must have different sensitivity.
3. Detector probe must install in high temperature or wet circumstance.

4. Keep the installation locate away from the power supply wire and communication cable as far as possible.

5. There is no component in the control box can be disassembled by the user except the professionals.

6. This detector will get the best detecting effect after 1~2 minute self-inspection when starting up.

7. This detector should be installed in the flat and shock free ground surface

8. We advise you to install a power wire in the ceiling, thus you can connect the power of this detector much easier.

9. Every detector is attached with a warranty card which can make this detector be maintained within the warranty period free of charge.

10. Distinguish the left and right probe (gate sheet) clearly before installation, and the signal probe line and the zone should display that the probe line is inserted into the corresponding place.

11. Make sure the power supply is 110VAC to 240 VAC; see the adjustment method in the installation instruction.
Interference

The interference that can be interfere with the operation this detector are described as follows:

**Mechanical interference**
Revolving door: the distance between the revolving door and this detector should be 1000mm. Make sure the door is opened outwards. For two doors, this detector should be installed on different sensitivity.

**Electronic interference**
There are many objects that can produce electronic interference to this detector such as elevator, motor, TV set, computer monitor telephone wire and mobile phone. Keep these objects away from this detector. If there is any consistent serious interference occurs, please inquire your dealer.

**The moving object**
If this detector is installed too close from the road, the go and from large vehicles will influence its normal work. Therefore, we advise you to keep this detector away from the road as far as possible when install it.

**Parallel-in application requirement**
While in parallel-in application, the min. distance between the two detectors should be over 700 mm to avoid the interference from each other.
Part

1) Screw Hole
   main board
   Left Probe
   Right Probe
   Infrared Sensor
   Power Switch
   Power Socket
   Protective Boot

2) mainboard
   keypad
   Screw Hole
   LED Indicator
   Right Probe
   Left Probe
   Infrared Sensor
   Power on-off Switch
   Protective Boot
   Power Socket
Installation

Please read through the Precautions prior to installation of Walk-through Metal Detector, so as to ensure a normal operation for the product and avoid external interference.

1. Take off this detector from the packing case and put in on the foam according to the below figure.

2. Open to the 8 screws laying on the top of the mainboard.

3. The mainboard display is to upwards, and erecting the left probe plank, using the screw connect the left probe with mainboard tightly.

4. Use the screw connect the right probe with mainboard tightly.

5. Insert the signal wire according to color (the protection plug should aim at direction before inserting; navigational plug is fixed spiral, revolve and tighten after aiming at direction).
6. Lock the mainboard well after linking.

7. Two or three men lift the detector to the vertical position and move to the designated place.

8. Connect the electric current, open the switch, then the detector enter the standby state.

Panel

1)

Area Alarm Indicator: it indicates alarm position when the detector alarm.

Signal strong or weak indicator: it shows strong or weak of the signal.

Standby indicator: it’s standby detecting light. After connecting electric current, it light. It doesn’t light when the detector alarm.
Passer Number: count the number passing the detector.

Warning Times: count warning times.

Alarm Indicator: It light when alarm.

Select: enter debugging procedure, change password and area when debug the sensitivity.

Setup: change the place of the cursor when adjust password, input tens digital when adjust sensitivity, input the length of the alarm.

ENTER: confirm the new password, input signal digital when adjust the sensitivity.

RESET: Please press the button RESET entering working state fast, remove the passing number and warning times when adjusting sensitivity.

counting board (8 digital tube): the left 4 numbers show passing number, the right 4 numbers show warning times.

Operating Procedure

1. Inputting password: input and confirm password before all setting. (factory original is 1234), operating as following:
   a). Press the button SELECT in a standby state: 0000 1234
   b). Input password: Please press SELECT button to input number and press RESET to change place.

Every press one time, number alter one time, the number is from 0 to 9 when using button SELECT to input number.

When press RESET button, every press cursor one time, and move to behind one time from 1 to 4 circle to move.

Please press the button ENTER to confirm password after finishing.
If you don't change original password, you can firstly press SELECT, then press ENTER.

* correct password show:  * incorrect password show:

0000 0000 0000 E000

c). Confirm the password it's correct, then can entering other setting.

d). Input the incorrect password, can repress the second step to reinput or press RESET button to return standby state, reconfirm password.

2. Adjust password:

After inputting correct password, can adjust password.

a). correct password show: 0000 0000

b). Please press the button SELECT to input number, and press SETUP to alter place.

Every press one time, number change one time, the number is from 0 to 9 when using button SELECT to input number.

When press RESET button, every press cursor one time, and move to behind one time from 1 to 4 circle to move.

Please press the button ENTER to confirm password after inputting.

Please ENTER to confirm the changing password after finishing, after confirming, the panel show: (X is number from 0 to 9):

0000 d00X

c). Please press ENTER after setting finishing.

3. Alarm Time Setting: enter alarm time setting after confirming correct
password:

a). Correct password show:  

b). Press ENTER, the panel show "d00x" (x is from 0 to 9):

c). Press SETUP to set alarm time length: alarm time is 0~10s, the panel show corresponding "d000"-"d010", the d000 means mute state, the d010 means the alarm time is 10s.

d). After the set up and press SELECT button to enter other parameters set (we advise you set the alarm time is d001 or d002)

4. Frequency setting:

a). Correct password show:  

b). Press OK/MENU button, the panel show "d00x" (x is between 0 to 9)

c). Press SELECT button, the panel show "F00X" (X is between 1 to 8)  

f). After the set up and press SELECT button to enter other parameters set

5. Sensitivity setting:

a). Correct Password show:
b). Press ENTER, the panel show “d00x”:

c). Press SELECT, the panel show “10XX”

sensitivity, 1 is the first area, Xx represent sensitivity number:

0000 10XX

d). Please press RESET to input tens digital, Press ENTER to input signal digital.

e). Press SELECT, the panel show “20XX” entering the second area to adjust. the way is same as the first area.

f). Press SELECT to set the sensitivity from 3 to 7 area.

g). After the set up and press SELECT button to enter other parameters set

5. RESET:
a). This detector can currently count the passen number, please press RESET if need to recount the passen number and warning times.

b). Please press RESET to enter procedure and return standby when the detector is in normal working.

c). Please press RESET to return standby and not to store in any setting process.
**Operating Procedure:**

Select: Area Switch eg: 1060, 2060,......7035  
Setup: adjust tens digital of the sensitivity for any zone eg: 1070, 1080, 1090  
Enter: adjust single digital of the sensitivity for any zone  
For the 1st to the 6th zone, the sensitivity will get higher with the number growing, but the 7th zone is on the contrary.

**Note for installation:**

1. Distinguish the left and right side clearly for main board and panel before installation. If the direction mark is unclear, please make the key panel on the mainboard and the indicator on the panel in the same direction.
2. Set the screw between panel and main board tightly to avoid the gate swaying then influence the detective accuracy and some accident happening.
3. Please cover any one of the four infrared transfer by hand when you open the machine, then take away the hand, and look at the pass number, if that increase, it indicate the installation is no problem..
4. If the sensitivity cannot meet user’s need after adjustment, we will go to the main board to adjust the blue potentiometer on the capture card (the layout for potentiometer is 1+2, we only adjust that blue one). Turn it on clockwise, the sensitivity will get lower, conversely higher. When rotating the potentiometer, please slow down and be carefully.
Adjustment to Article Detection

How to exclude the small metal articles and detect the big metal articles:
When detect the metal articles on people through, it doesn't intend to detect the small metal articles such as ring and key but some big metal, at this moment following method to make and adjustment:

a) Choose a small metal articles as a sample which is in the detecting range of and wanted, such as a string of keys;

b) Turn up the sensitivity and take the metal sample pass through this detector, and it will alarm;

c) Turn down the sensitivity appropriately and take the metal sample pass this detector again, and if it still alarms, further turn down the sensitivity until there is no alarm when the metal sample passes through this detector.

Please remember, if the sensitivity of some one area needs to be turned down, it only need to adjust the corresponding area; if the sensitivity of the whole detector needs to be turn down, it should adjust the area 7 (namely the adjustment of the integrated sensitivity). After theforesaid adjustment, this detector will not alarm when it has detected small metal articles but will detect the big metal articles precisely.

If this detector alarms when the under detecting people walks through it, it means there are some hidden metal articles on him. For locating it accurate position and finding it out, please purchase the hand-held metal detector of this company separately.
Technical Parameters

Electric current: AC110V-240V  50HZ/60HZ

Power: <30W

Overall dimension: 2240mm(H) 860mm(W) 580mm(D)

Channel size: 2010mm (H)' 700mm (W)' 500mm (D)

Weight: about 76kg

Working environment: -25° C- +55 C
Packing List

Thank for buy this detector. Please check and make sure the following articles are contained in the packing case. If there is any miss or damage, please contact with the local dealer.

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mainboard</td>
<td>1 piece</td>
</tr>
<tr>
<td>Left Probe Plank</td>
<td>1 piece</td>
</tr>
<tr>
<td>Right Probe Plank</td>
<td>1 piece</td>
</tr>
<tr>
<td>Screw</td>
<td>8 pieces</td>
</tr>
<tr>
<td>Power wire</td>
<td>1 piece</td>
</tr>
<tr>
<td>Hexangular Spanner</td>
<td>1 piece</td>
</tr>
<tr>
<td>Operation Instruction (Warranty Card)</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
WALK-THROUGH DETECTOR