

## EM Sensor troubleshooting

Possible reasons of misreport and solutions:

A. Door shelf becomes loose to cause misreport.

Solution: set systems according to correct ways.

B. Environment around detecting door changed.

For example, there are some strips near it, or there are some big iron things such as iron bookshelf or magnet, or porcelain enamel cup and observing door are too close to aluminum alloy doorframe.

Solution: take away those movable books, iron things or porcelain enamel things that with strips around; move away the system, if doorframe is too close to aluminum alloy door or reinforcing steel bar.

C. System misreports if door motherboard is not horizontal with the ground.

Solution: level up the interspace between motherboard and ground.

D. Instable voltage causes misreport.

Solution: use a stable power.

E. Inadequate degaussing caused misreport.

Solution: let librarians degauss strips inside books again.

F. Working walkman causes misreport, too.

## Possibility of non-report and solutions

### 1. External factor

a. Check if the red light of alarming host is bright. And check how the light becomes bright.

Solution: (1) check if there are some big metal objects such as bookshelf, aluminum alloy door and reinforcing steel bar. (2) Check whether the detecting door is loose or not.

b. Check if the magnetism of strips is adequate.

c. Maybe the non-report place is in blind area of system coincidentally. Blind area is near to receiver, check if the strips are passing by receiver in uprightly.

d. Check if there is a large interference magnetic field near the system such as army radio and communication signal tower. If there are such things, it can not be solved easily. If the previous solutions are not effective, we could try to open alarm host cover to enhance anti-interference capability.

### 2. Inner factor

a. Check if the fuse of host power plug is burnt.

b. Is the buzzer alright?

c. Capacitance of transmitting doorframe is breakdown.

d. Is the inner chip of host alright?

## Content

Under normal circumstances, there are two anti-thief pattern in stores, one pattern is to separate persons with merchandises, in which merchandises are passed outside detecting channels after scanning and customers need to pass the detecting channels after payment and then take merchandised away from outer side of system.

Features of such working pattern:

- (1) payment desk is close to alarm system and worktable is at the door;
- (2) this pattern is fit for small store. If the passenger flow is huge, do not choose this pattern.
- (3) Burglarproof materials are cheap without degaussing.

The other pattern is degaussing & taking pattern:

I.e. degaussing strips when customers are paying for merchandises and they take merchandised away through detecting channels.

Features:

- (1) it is fit for larger stores;
- (2) cash desk is far away from store exits.
- (3) Corresponding materials that can be degaussed and degaussing equipments;
- (4)

Normal working pattern of stores