User Manual

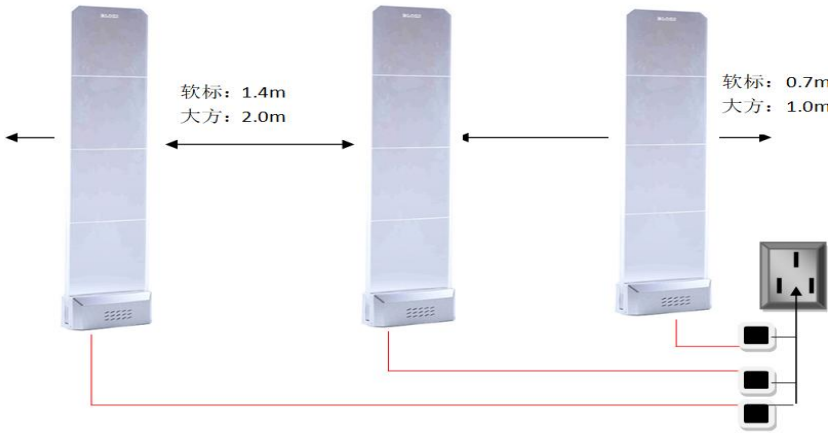
Product Name: Electronic Article Surveillance
Model Mame： FS 6,FS 2, FS 7, FS 8, FS 9
Brand Name: BLOZI

Manufacture: Shanghai Blozi Electronic Co.,Ltd.

I. Introduction of Performance and Features

FS 6 comprises of the 8 MHz single antenna (MONO) detector main board which uses the work mode of upper and lower frequency scanning and can be applied to various types of RF labels, and can be used for a plurality of devices at the same time without the online requirement. The main board adopts the latest digital signal processing technology, has the functions of selection of signal identification precision and selection of frequency scanning, improves the interference resistance and prevents false alarming, etc.

II.Installing way of equipment



Dual detection distance: soft label： 1.4m square hard tag 2.0m

1.A plurality of single antenna detectors work at the same time without mutual interference or the demand of online synchronization. The installing operation is simple, and it is particularly applicable for the installing of the independent double channels and the installing of super-wide distance.
2.The equipment adopts 8 MHZ as the center frequency and works in the way of upper and lower frequency scanning, the bandwidth is 1MHZ, and it can be applied to the work of the labels of various frequencies;
3.The equipment adopts the advanced automatic gain control and can automatically adjust the strength of the transmitting signal according to the environment interference, and also besides increasing the interference resistance, it can also prevent the soft label from being deactivated;
4.The equipment adopts the automatic tuning control and frequency selection as well as the latest DSP digital signal processing technology so as to improve the detection efficiency and the label identification ability so as to reduce false alarms. The equipment can automatically adjust the equipment according to the onsite environment interference so as to be applicable for the onsite environment;
5.Label detection distance and maximum detection distance (as table 1)

Model	Soft label		Hard tag	
	Detection distance m	Recommended installing distance m	Detection distance m	Recommended installing distance m
FS 6	0.7	1.3	0.9	1.8

6.Limits of utilization:

When install the single-antenna RF detector, please pay attention that is there any 8 MHZ system often used nearby, i.e., the 8 MHZ continuous wave RF detection system of the collaborative work of the transmitting antenna and the receiving antenna. When the single-antenna detection antenna is more than 15m away from the RF continuous wave transmitting antenna, it is the safe installing distance. Differed by the position and direction of the installing site, the limitary installing distance is 8m. When there is the interference of continuous waves, the signal-to-noise ratio of the label will be influenced, which then influences the detection sensitivity of the equipment. Under the interference condition, to improve the interference resistance, the sensitivity of the equipment can be properly lowered, and the detection distance will be shortened for about 20% to 30%. It depends on the onsite condition.

Technical parameters of the system

Name	Specification and parameter	Remark
Applicable environment condition of the system	Temperature：15～30℃	
	Relative humidity：45～75%	
Storage environment condition of the system	Temperature：-10～+40℃	
	Relative humidity：<= not higher than 80%	
Detection antenna of FS 6		
	Scanning width：7.8 MHz ~8.1MHz	
	Detection distance of the hard label：0.8m~1.2m	
	Detection area：≥85%	
Special power supply for the antenna	**Output voltage：18VAC**	

The technical personnel shall pay special attention to that the power supply of the antenna is 120V/AC 18V.

FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.