Instruction Manual of KZJ-956E I/O Module

------ Please read this Manual carefully before installing and using the product. -----

I. Overview

The KZJ-956E I/O module (KZJ-956E module for short) is used with a two-bus linkage fire alarm control system. It is mainly used to realize an output control for fire linkage equipment (such as smoke dampers, blow valves and fire dampers) and receive the feedback signals of the fire linkage equipment so that a judgment on whether or not the fire linkage equipment is operating normally can be done.

II. Features and technical parameters

1. Mode of operation: Nonpolar two-wire system
2. Quiescent current: ＜0.6mA (power-down mode)
3. Action current: ＜10mA
4. Capacity of the output control contact: 2A@DC30V
5. Operation indicator: The inspection indicator will blink once about every 12 seconds in the inspection status or remain lit in the output status; the input indicator will remain lit in the feedback status.
6. Operating environment: Temperature: －10℃～50℃; relative humidity: ≤95% (40℃±2℃, without condensation)
7. Terminal load: 47K resistance
8. External dimensions: 86×86×40(mm)
9. Weight: about 130g
10. Executive standard: GB16806-2006

III. Instructions for use

11. Terminal description for the KZJ-956E module

Terminal description (see Fig.2)

Terminal No.	Function	Mode of the built-in terminal load (factory default)	Mode of the external terminal load
1	+24V	-------- (strictly prohibited)	DC24V access terminal (positive)
2	GND	Normally open contact (closed after action)	DC24V access terminal (negative)
3	TO0	Public contact	Load access terminal (negative)
4	TO1	-------- (strictly prohibited)	Load access terminal (positive)
5	TO2	Normally closed contact (open after action)	-------- (strictly prohibited)
7	FB0	Access terminal for the feedback signals of the fire linkage equipment	
8	FB1	Access terminal for the feedback signals of the fire linkage equipment	
9	L1	Access terminal for the bus signal of the linkage fire alarm control system	
10	L2	Access terminal for the bus signal of the linkage fire alarm control system	

Jumper description (see Fig.1)

Jumper	Pins 1 and 2 shorted	Pins 2 and 3 shorted
JP1,JP2 and JP3	External terminal load	Built-in terminal load (factory default)
JP4	Normal mode	Power-down mode (factory default)

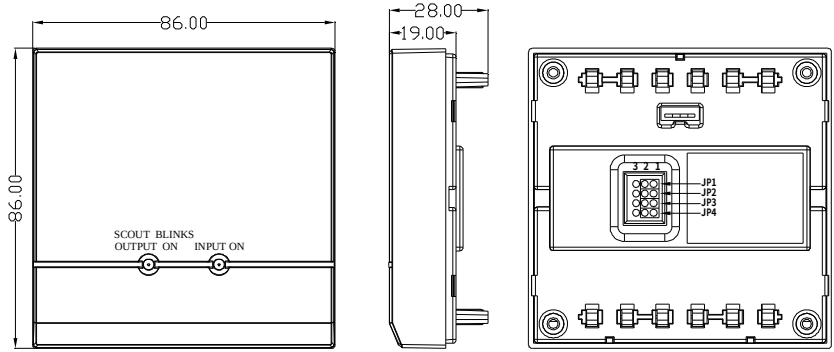


Fig.1 Main Body of the KZJ-956E Module

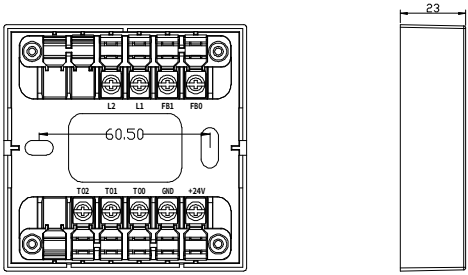


Fig.2 Base of the KZJ-956E Module

12. Wiring method of the KZJ-956E module
    1) When a built-in terminal load is used, the wiring method is shown in Fig.3. A dry contact signal (namely a relay contact signal) is output after action.
    2) When an external terminal load is used, the wiring method is shown in Fig.4. It is necessary in this case to have the load circuit and the feedback circuit connected in parallel with a 47K terminal load. The KZJ-956E module is able to identify the short or open circuit fault of the load circuit and the open circuit fault of the feedback circuit.

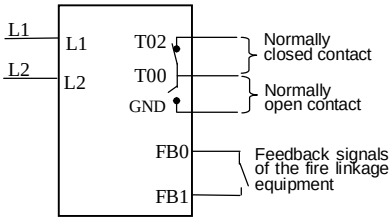


Fig.3

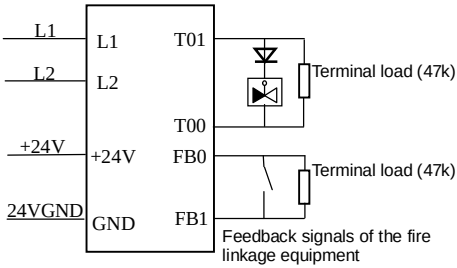


Fig.4

IV. Installation and debugging

1. Make sure the type of the module matches the type given on the construction drawings.
2. Connect the 4-pin coding plug on the coder with the 4-pin coding socket (see Fig.1) on the main body of the KZJ-956E module and then set the coder with the coding function and compile the correct address code to finish the address coding.
3. Conduct correct wiring as instructed in Fig.3 or Fig.4.
4. Use two M4 screws to fix the module base via the two elliptic screw holes shown in Fig.2 and then insert the main body of the KZJ-956E module into the module base and make sure they contact each other well.
5. After the KZJ-956E module is installed and checked, connect the power supply of the fire alarm control system. Upon successful login, the inspection indicator of the KZJ-956E module will blink once about every 12 seconds, which suggests that the KZJ-956E module has begun to operate.
6. Conduct debugging after the installation is completed. Make the fire alarm control system send out a starting signal and have the starting signal sent by the KZJ-956E module to the fire linkage equipment connected with it. After that, the fire linkage equipment will operate correspondingly and the inspection indicator of the KZJ-956E module will be lit. The operating fire linkage equipment will give a feedback signal. After receiving the feedback signal, the KZJ-956E module will have its input indicator lit, which suggests that it has begun to operate normally.
7. After the debugging, reset the KZJ-956E module and related equipment.

V. Precautions

1. When an external terminal load is used, do not connect the positive and negative poles of the external 24V power supply inversely, or the KZJ-956E module may be damaged.
2. Do not allow two or more products in a single circuit to share the same address, or else the system will report a coincident code fault.
3. Confirm the type of the input equipment connected with the KZJ-956E module (feedback equipment or fire alarm equipment) and have the corresponding equipment type of the KZJ-956E module set in the fire alarm control panel. After automatic login, the KZJ-956E module will treat the input equipment as fire alarm equipment by default.