



**Fireproof Rolling Door Intelligent  
Control System  
Operation Manual**



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## 1. Initial Setup

- **Procedure A:**

- Adjust switch 2 to the "up" position while keeping the other switches in their original states.
- Then, connect the fire - smoke terminal 'YG' or the 'HT' terminal to the 'GD' terminal.  
(Note: Original image placeholder)

## 2. Functions

### 2.1 Manual Control

- **Procedure B:**

- To operate the rolling door manually, adjust switch 3 to the "up" position while maintaining the other switches in their original states.
- Connect the 'YG' terminal to the 'GD' terminal to move the door to the middle position.
- Subsequently, connect the 'WG' terminal to the 'GD' terminal for further manual operation. (Note: Original image placeholder)

- **Procedure C:**

- For emergency manual control, adjust switches 2 and 3 to the "up" position while keeping switch 1 in its original state.
- Then, connect the fire - smoke terminal 'YG' or 'HT' terminal to the 'GD' terminal.  
(Note: Original image placeholder)

### 2.2 Synchronizing Signal Function

- The controller supports synchronizing signals for fire - smoke and high - temperature (HT) detection, with fractional step detection capability. There are three control procedures for initiating fire - smoke and HT responses.

## 3. Set Code Switch

### Switch Configuration:

- **Procedure A:** Sw1 = OFF, Sw2 = ON, Sw3 = OFF
- **Procedure B:** Sw1 = OFF, Sw2 = OFF, Sw3 = ON
- **Procedure C:** Sw1 = OFF, Sw2 = ON, Sw3 = ON
- **Set Up Time:** Sw1 = ON, Sw2 = OFF, Sw3 = OFF  
(Note: Original image placeholder)

## 4. Operational Modes

### Procedure A Mode:

- When the switch is set to Procedure A, upon detecting fire - smoke or HT signals, the controller will initiate the descent of the rolling door, pause for a few seconds, and then continue to lower it to the bottom.

### Procedure B Mode:

- In this mode, the controller detects fire - smoke and HT in sequential steps. It sounds an alarm and illuminates a light while operating the rolling door to slide and stop at the middle position. If an HL signal is detected, the door continues to descend to the bottom; otherwise, it stops at the middle.

### Procedure C Mode (Emergency):

- Under emergency conditions, the rolling door will descend to the bottom in one continuous movement, regardless of whether fire - smoke or HT signals are detected.

## 5. Emergency Escape Procedure

- In the event of a fire when the rolling door is descending, individuals in the fire zone can press any controller button (up, stop, or down) to raise the door to the middle position and then it will descend directly. This action can be repeated as necessary. When the door reaches the bottom, pressing any button will raise it to the middle position, pause for a few seconds, and then continue its descent.

## 6. Technical Specifications

- **Time Range:** The one - time downtime time is 0 - 999 seconds; the stop time at the middle position is adjustable from 0 to 999 seconds.
- **Alarm Sound:** Up to 80 dB.
- **Output Capacity:** AC220/5A, DC30V/5A.
- **Power Consumption:** Less than 15W.
- **Fire Command Center Signal:** Accepts switch signals or DC24V signals (anode 'R', cathode 'X').

## 7. Manual Motor Control

- Under normal conditions, pressing the 'Up', 'Stop', and 'Down' buttons will appropriately operate the rolling door motor. If the 'Up' and 'Down' lights are lit in reverse, swap two phase lines of the motor and verify the functionality of the limit switch.

## 8. Terminal Connections

- **Left Side:** 8 connecting terminals.
- **Middle:** 7 connecting terminals.
- **Right Side:** 8 connecting terminals.  
(Note: Original image placeholder)

## 9. Time Controller Setup Procedure

- **Positioning:** Adjust the motor to keep the rolling door slightly above the middle position.
- **Motor Operation:** Set switch 1 to 'ON' while keeping the others in their original state to move the door up to the adjusted limited position and then let it move down automatically. Press 'Stop' at the desired position to set the initial stop time.
- **Escape Height Adjustment:** Press 'UP' to raise the door from the bottom to the desired height, then press 'Stop'.  
(Note: Original image placeholder)

## 10. Installation, Wiring, and Debugging

### 10.1 Installation

- Ensure that the controller box and all components are intact before installation.
- Turn off the power switch before installation.
- Securely mount the controller box on the wall.

### 10.2 Wiring

- Connect the wires according to the circuit board diagram.
- Ensure that the insulated resistance between the power terminals, motor terminals, and motor covering is not less than  $1M\Omega$ .

### 10.3 Debugging

- Turn on the power to verify that the 'normal' light is illuminated. If it is not and an alarm sounds, refer to the "Simple Troubleshooting" section.

## 11. Simple Troubleshooting

- **Continuous Alarm Sound:**

- Check and correct the phase wire connections.
- Ensure that the phase wires are securely connected.
- **Controller Operation:**
- Verify that the 'TJ', 'SJ', and 'XJ' switches are connected normally.
- Ensure that the UP and DOWN limited switches are connected in a 'Normally Closed' configuration.

## **12. Important Attentions**

- Follow the connection diagram precisely for all wiring.
- Do not dismantle any controller components.
- Avoid opening the controller while it is operational unless you are a professional.
- Always connect the earth wire for safety.
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This manual provides comprehensive instructions for the installation, operation, and maintenance of the Micro-Computer Intelligent Control System for Fire-proof Rolling Doors. For any further assistance, please contact our technical support team.

(Note: Placeholder text for images should be replaced with actual images from the original document where applicable.)