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Operation Instructions for SJ-FP-0.75KVA/F21E Distribution and Switch Equipment for Fire Emergency Lighting

(Please read the installation instructions before installing and using the product. Please keep this manual properly so that you can access it at any time later.)

I. Overview

SJ-FP-0.75KVA/F21E distribution and switch equipment for fire emergency lighting is a power distribution device designed for centralized power supply for emergency output in accordance with GB 17945-2010 Fire Emergency Lighting and Evacuate Indicating System, which is mainly suitable for fire emergency lighting and evacuate indicating system with centralized power supply and centralized control.

The power distribution device is internally provided with a driving control board, each driving control board is provided with two control loops, and loops are independent of each other, and each control loop can be connected with a maximum of 108 terminals, and two core wires are used to realize the non-polarity connection with the fire-fighting emergency marker light or the fire-fighting emergency illuminating light of our company.

II. Main parameters

Rated supply voltage: AC 220V
Rated operating frequency: 50Hz
Output voltage: DC27V ± 3V
Rated power consumption: 750W
Main power consumption: 100W
Number of output circuits: 8 loops
Emergency working time: ≥ 90 minutes
Enclosure protection class: IP30
Ambient temperature: -10 ~ 55℃
Service environment: temperature: -10℃~55℃,relative humidity ≤ 95% (no condensation at 40℃±2℃)
Executive standard: GB 17945-2010

III. Functional description

1.Description of panel indicator

The case panel has three indicator lights, including the following functions:

- Power supply: This light indicates normal operation of the equipment and the power distribution device;
- Fault: This light indicates the fault of power distribution device during operation;
- Emergency: This light is on when the power distribution device is in emergency working state.

2.Internal structure and settings

Board A and B, drive control board, switch power supply, small circuit breaker, power distribution load box and indicator light are internally arranged in the power distribution device.

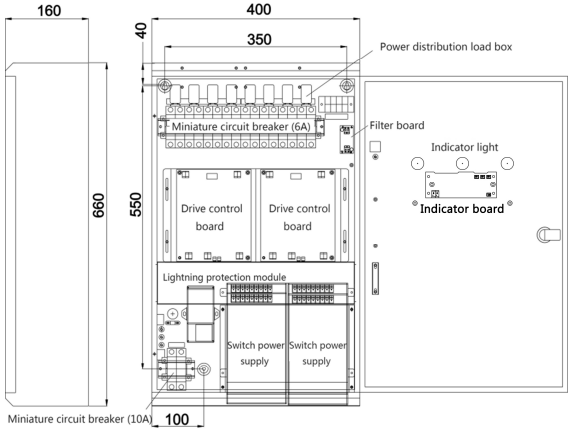


Fig.1 Structural dimensions and internal layout of power distribution device

The miniature circuit breaker of mains power supply controls the power on and off of the whole power distribution device, and the miniature circuit breaker of each loop controls the on-off of the single loop respectively.

Indicator board connects with Distribution and Switch Equipment for Fire Emergency Lighting equipped with board A to control indicator lighting and buzzer.And the indicator board is coded by encoder with a range from 1 to 108.

3.Description of output end connection

The output port of miniature circuit breaker at each loop end is connected with a power distribution load box, used for detecting whether the output of current loop is normal. When a loop is not connected with the terminal light, the power distribution load box shall be connected with the miniature circuit breaker, otherwise the drive control board would report the failure of open circuit. When the loop is connected with the terminal light, the power distribution load box may not be connected.

4.Loop with load capability

Single-loop on the drive control board has a maximum of 3A output current. Each control loop is provided with over-current protection, when the loop current increases, the current loop will be automatically cut off, and the short-circuit fault of the current loop is reported to the emergency lighting controller. The controller will automatically detect short-circuit fault, and restart the loop device the short-circuit fault is removed.

IV. Connection and wiring

The power distribution device enables data communication via CAN bus and, in order to ensure reliable data transmission, the hand-in-hand connection mode should be used. In the construction process, the wiring connection shall be performed according to the wiring diagram and the model number of the power distribution device.

Notes: The two CAN buses shall not be confused, or otherwise a control error will be caused. The two CAN buses shall be connected by hand-in-hand mode other than the star connection.

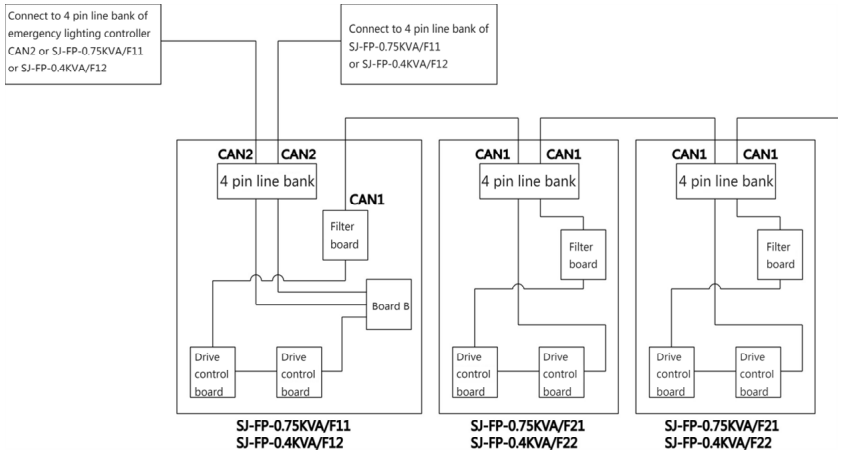


Fig. 2 Wiring diagram of power distribution device

V. Maintenance and repair

1.The power distribution device shall be able to normally communicate with controller and to control the normal function of lights.

2.The power distribution device does not have waterproof function. Please install the device away from the water source.

3.The Company shall be responsible for free maintenance or replacement within one year from the date of purchase for the normally used power distribution device if it cannot work properly due to defects in the material or manufacturing process; the Company will not be liable for any consequences arising from human damage, improper use or self-adjustment, alteration, disassembly, improper installation and all consequences arising

therefrom.

4.The Company is responsible for the paid maintenance of products within the non-warranty scope, and if paid maintenance is necessary, please contacts us. Meanwhile, we are very keen to get some important information about the products you want to repair, such as the situation where the product is not working properly and the possible cause, so that we can find the problems in the shortest time and provide a reference for our future product development and improvement.

VI. Transportation and storage

1.The power distribution device shall be placed in a stable and firm manner during transportation so as to avoid collision damage during driving.

2.The package shall be handled with care during unloading, and cannot be knocked, dropped or pried.

3.The power distribution device shall be stored in dry and ventilated places to avoid contact with corrosive substances.

4.Power distribution device shall be stored in a place away from the moisture, sunshine, rain and corrosion.

VII. Precautions for use

1.Please don't touch the connection terminal of the switch power supply directly with your hand, and be careful with electric shock. The small circuit breaker of mains power supply must be disconnected when the connection terminal is operated.

2.Make sure the case enclosure is in good contact with the earth during installation.

3.Replace the protective tube with the one of the same specification.

4.After completing equipment commissioning, the jumper terminals on each circuit board shall not be changed at will.

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