Operating Instructions for SJ-ZFJC-E3W/ZS31E Central controlled Fire Emergency Lighting Luminaire Powered by Centralized Batteries

I. Overview

You are welcome to use the SJ-ZFJC-E3W/ZS31E central controlled fire emergency lighting luminaire powered by centralized batteries produced by our company.This series of products is mainly applicable to high-rise buildings, shopping centers, entertainment places, banks, hospitals, subway stations, high-speed rail stations, railway stations, airports, etc. When fire-fighting accidents happen, the products can, under the control of fire emergency lighting and evacuation indication system, provide emergency lighting for personnel evacuation.

This product is designed pursuant to the requirements of GB 17945-2010 Fire Emergency Lighting and Evacuation Indicating System. It is characterized in that:

• Use non-polar two-wire bus to supply power and control the lights, save the installation cost;

• White LED is adopted as the light-emitting source, with extremely low power consumption is, longer service life and easier replacement;

• LED drive chip is used for supplying power to the light source, providing higher lighting efficiency and brightness;

• The product has the characteristics of high temperature and corrosion resistance, and can be used normally in most environments.

The model composition of this series of products is formulated in accordance with GB 17945-2010 Fire Emergency Lighting and Evacuation Indicating System, and the representative significance is as follows:

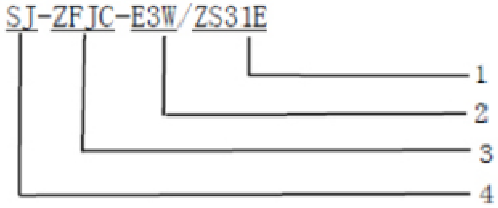


Figure 1

1: Product model: left first letter: Z represents illuminating light; second letter: S represents a double-headed illuminating light; the number 3 represents the rated power of this product as 3 W; the rightmost digit is a serial number;and E represents English version.

2: Product code: E represents the light-emitting type diode; 3W and 5W represents respectively the rated power of 3W and 5W.

3: Category code: Z represents illuminating light; F represents non-continuous type; J represents a centralized power supply type; and C represents a centralized control type

4: Enterprise code: SJ represents Shenzhen Fanhai San Jiang Electronics Co., Ltd.

II. Main parameters

• Rated operating voltage: DC27V (bus power supply)
• Power consumption: 3W
• Wire system: non-polarity two-wire bus
• Coding: electronic coding, coding range: 1-108
• Light source: LED, DC3.2 V, 0.5W
• Emergency output luminous flux: 50 lm
• Function: normally on and off
• Emergency working time: 90 minutes
• Emergency conversion time: ≤ 5S
• Shell material: Aluminum alloy
• Protection class: IP30
• Operating environment: temperature: 0℃~55℃, relative humidity ≤ 95% (no condensation at 40℃±2℃)
• Executive standard: GB 17945-2010

III. Appearance structure and dimensions

1. Outline Structure:

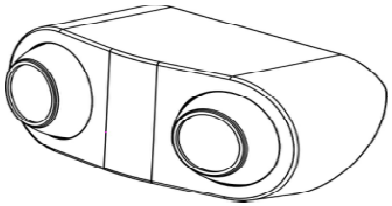
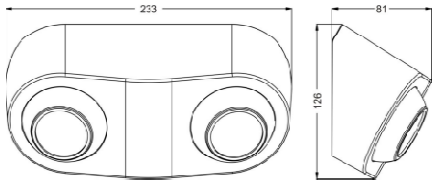


Figure 2

2. Dimensions:



IV. Product installation and engineering application

1. Address coding:

Connect two alligator clips on the encoder connection line respectively to leading-out line L1 and L2 of indicating light (polarity free), adjust the encoder to the encoding function, and input the correct address, press the "Execute" key to complete the address encoding (Notes: Refer to the encoder specification for detailed operation).

2. Product installation mode

As shown in Fig. 4, two expansion screws are fixed on the wall, with screw spacing of 162mm, and certain distance shall be reserved between the screw head and the wall surface.Put the screw mounting hole on the back of illuminating light on the screw head, and the lights' power cord outlet shall be in the middle of the two screws.

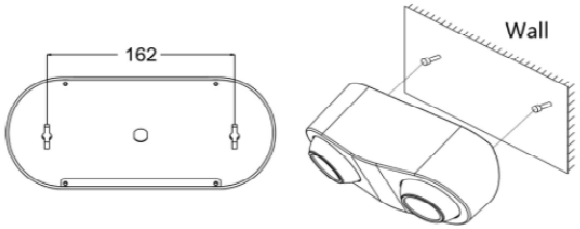
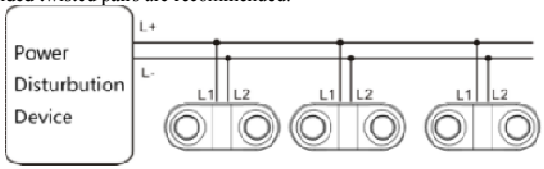


Fig. 4

3. Wiring methods and requirements

• The connection mode of buses L1 and L2: as shown in FIG. 5, the outgoing lines L1 and L2 of light are respectively connected with the bus L + and L - of the power distribution device, L1 and L2 are connected polarity-free.

• General environment, it is recommended to adopt twisted pair of 2.5 mm2 or more; in a strong interference environment, shielded twisted pairs are recommended.



Power distribution device
Figure 5

V. Product commissioning

1. Code the address of light by using an encoder, and access the system bus to ensure that the addresses on the same loop are not repeated;
2. Check whether the product installation and the connection of signal bus are correct and ensure that the product is properly installed and the signal bus is connected correctly;
3. Enable the fire emergency lighting and evacuation indication system, and after the controller host enters the normal working state, perform automatic login, and confirm that the login information is in conformity with the actual situation of access light;
4. When the yellow status indicator light on the light panel is flashing according to certain regularity (once flash about every 12 seconds), the fire emergency lighting and evacuation indicating system has started normal operation.

VI. Fault analysis and solution

Common faults and troubleshooting methods

Faults	Cause analysis	Solutions
Report the light source open circuit or short circuit	Light source plug is not well connected or LED light source is damaged.	Connect light source or replace LED light source
	Single-chip microcomputer works in an abnormal state or the power chip is damaged.	Replace the main board of lights.
Report the loss	Lights are not connected to the bus.	Reconnect lights to the bus.
In emergency state or when light ON command is executed, lights are not ON.	Wrong light type.	Check if it is illuminating light, or if it is registered as illuminating light on the host.
	Lights not registered.	Register lights at the corresponding bus loop on the controller.

VII. Maintenance and repair

1. The lights shall be subject to and qualify the monthly and annual inspection under the control of the controller.
2. The light does not have waterproof function. Please install the light 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 lights if the lights 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.

VIII. Transportation and storage

1. The light 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 loading & unloading, and cannot be knocked, dropped or pried.
3. The lights shall be stored in dry and ventilated places to avoid contact with corrosive substances.
4. Lights shall be stored in a place away from the moisture, sunshine, rain and corrosion.

IX. Precautions for safety use

1. Encode the address of light by using an encoder, and access the system bus to ensure that the address on the same loop is not repeated;
2. The light shall be installed in a place without obvious vibration and impact;
3. Some materials of the light housing are easily scratched, and the light shall be gently handled during installation;
4. After the light is connected with the bus, necessary insulation measures shall be taken at the connection point;
5. This series of products shall be subject to the open-case inspection and maintenance by the professional personnel.

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