Version：211700A180815

Operating Instructions for Central controlled Fire Emergency Indicating Luminaire Powered by Centralized Batteries

☐ SJ-BLJC-Ⅱ2LRE3W/AS1E
☐ SJ-BLJC-Ⅱ2LRE3W/AZ1E
☐ SJ-BLJC-Ⅱ1LRE3W/BS1E
☐ SJ-BLJC-Ⅱ1LE3W/BZ1E
☐ SJ-BLJC-Ⅱ1RE3W/BY1E
☐ SJ-BLJC-Ⅱ1OE3W/BL1E
☐ SJ-BLJC-Ⅱ1LRE3W/QS1E
☐ SJ-BLJC-Ⅱ1LE3W/QZ1E
☐ SJ-BLJC-Ⅱ1RE3W/QY1E
☐ SJ-BLJC-Ⅱ1OE3W/QL1E

I. Overview

You are welcome to use the central controlled fire emergency indicating luminaire powered by centralized batteries produced by our company. This series of products is mainly applicable to densely populated places, such as 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 series of products can, under the control of fire emergency lighting and evacuation indication system, provide the most accurate and quickest evacuation route for personnel.

This series of products 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;

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

• The constant current source is used for supplying power to the light source, so that the surface brightness of light is more stable;

• This series of products 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:

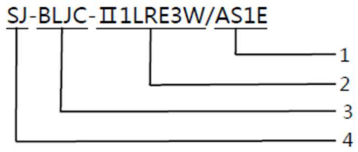


Figure 1

1: Product model: the left first letter: A represents hanging type; B represents wall-mounted, Q represents embedded; the second letter: Z refers to the left; Y refers to the right; L refers to the floor;the rightmost digit is the serial number;and E represents English version.

2: Product Code: Ⅱin ⅡIL1RE3W represents the medium type; 1 means the single-sided and 2 double-sided; LR represents the dual evacuation direction; L and R represents respectively the left and right evacuation direction; O represents no evacuation direction; E represents the light-emitting type diode; 3W represents the rated power, i.e., the main power consumption (maximum power consumption) of the product is 3 W, and the actual use power of the product is less than or equal to 1W.

3: Category code: B represents a marker lamp; L represents a continuous type; J represents a centralized power supply type; 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)
• Wire system: non-polarity two-wire bus
• Coding: electronic coding, coding range: 1-108
• Light source: LED, DC3.0 V, 0.1W

• Emergency output surface brightness: 50cd/m² ~ 300cd/m²
• Function: normally on and off, strobe (except for the indicator on the floor), and change direction (only for bi-directional indicating light).
• 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:

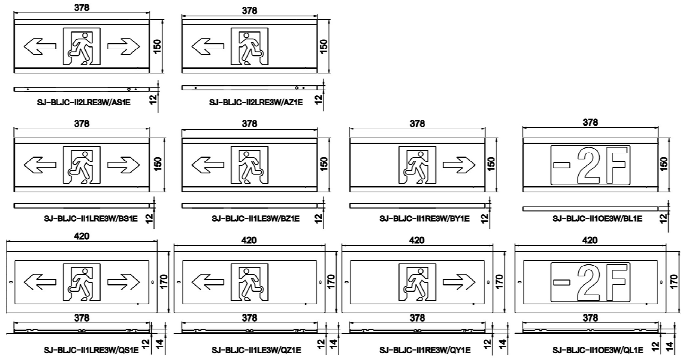


Figure 2

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 (Note: Refer to the encoder specification for detailed operation).

2. Product installation mode

Wall-mounted installation: fix the iron nail or other objects similar to the iron nail capable of suspending the light on the wall surface where the light is required to be installed, connect the bus according to FIG. 6, and finally hang the light on the iron nail.

Hanging installation: depending on the distance between the light hanging rings, two chains of the same length or other chains with sufficient strength are hung from the ceiling, and the cable is connected with the bus according to FIG. 6.

Embedded installation: The embedded box shall be embedded on the wall body where the light needs to be installed, and the dimensions of embedded box are shown in Fig.5. Connect the light to the bus, put it in the pre-embedded box, and fix the light in the hole position of embedded box with screws, as shown in Figure 4.

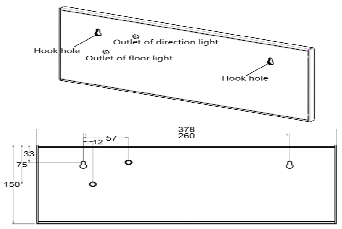
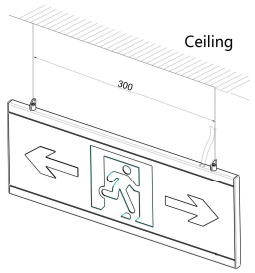


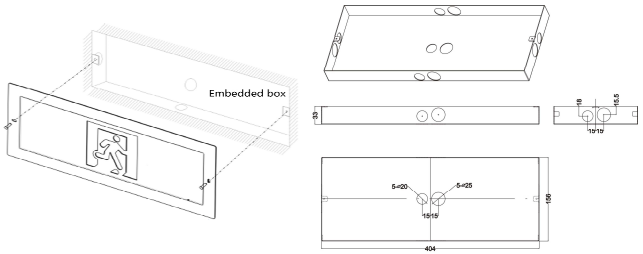
Fig. 3 Wall-mounted installation

Hook hole; leading-out hole of direction light; leading-out hole of floor light; Hook hole



Ceiling

Fig. 4 Hanging installation



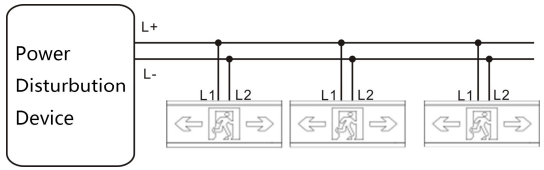
Embedded box

Fig.5 Embedded installation

3. Wiring methods and requirements

Bus L1 and L2connection mode: as shown in FIG. 6, 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 6

V. Product commissioning

1. Code 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. 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 (flash once 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
Lights are not ON	Light source plug is not well connected or LED light source is damaged.	Connect light source or replace LED light source
	Lights are not registered.	Register on the controller the lights to the corresponding bus loop.
	Single-chip microcomputer works in an abnormal state or the power chip is damaged.	Replace the main board of lights.
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, lights do not flash or provides no text information	Wrong light type.	Check if the type of lights registered on the host is correct.

VII. Maintenance and repair

1. The light 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. If, during use, the surface brightness of light is found less than 50cd/m² or more than 300cd/m², please contact the dealer or the after-sales service department of our company to replace the light source with the same model specification.
4. 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.
5. 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 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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