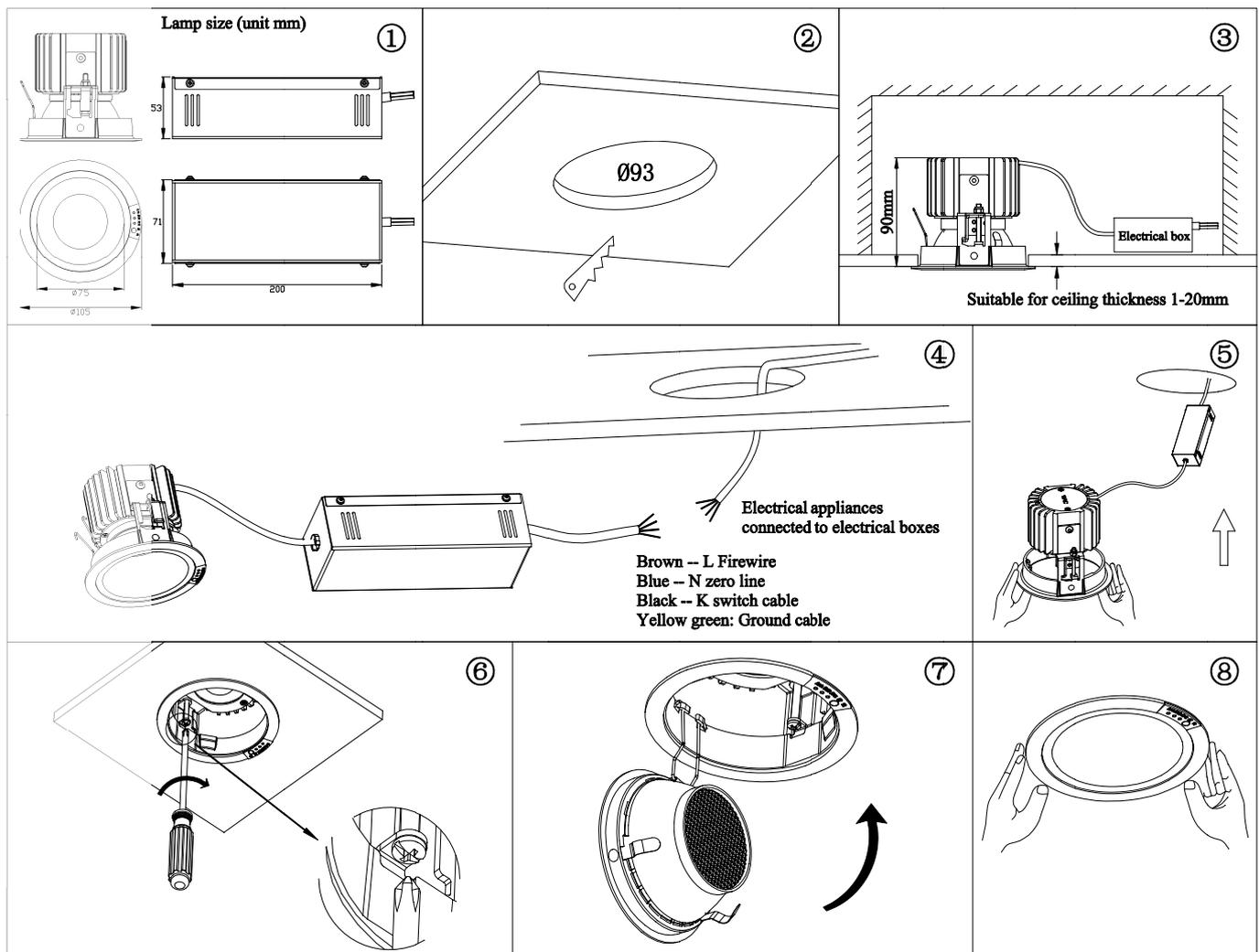


## Installation Precautions:

1. Please read the instructions carefully before installation;
2. Ask a professional electrician to install;
3. In order to avoid the danger of electric shock, please confirm to turn off the power supply before installation and maintenance;
4. The lamp can be embedded in the installation surface of the ceiling, and sufficient installation space should be reserved. Do not cover the heat insulation and combustible materials above the lamp to avoid causing fire;
5. If the glass is cracked, please replace it immediately;
6. Do not install the lamp on the unstable and unstable skylight to avoid the lamp falling;
7. Keep the manual for reference;
8. The light source in this luminaire shall be replaced by the manufacturer or its service agent or a similarly qualified person

## Lighting installation and wiring diagram:

1. Install and connect the cables correctly according to the following wiring diagram.
2. When the mains power is switched on, the lamp is in the main power state, and then click the test button to test whether the emergency state of the lamp is working normally. **Warning: If the external cable of the lamp is damaged, it needs to be replaced by a professional to avoid danger !**



## Main technical indicators:

Product series : HG-ZLZD-E16WDLK33  
Product name : Fire emergency lighting fixture  
Rated supply voltage : 220V ~ 50Hz  
Light source name/parameter : LED/ DC 31V-38V  
Executive standard : GB17945-2010  
Emergency output luminous flux : > 50lm  
Main power consumption : 16W  
Case protection class : IP30  
Emergency working hours : 90 min  
Battery model and specifications : Li-ion 18650  
2200mAh 3.7 8.14Wh

Product series : HG-ZLZD-E22WDLK33  
Product name : Fire emergency lighting fixture  
Rated supply voltage : 220V ~ 50Hz  
Light source name/parameter : LED/ DC 31V-38V  
Executive standard : GB17945-2010  
Emergency output luminous flux : > 50lm  
Main power consumption : 22W  
Case protection class : IP30  
Emergency working hours : 90 min  
Battery model and specifications : Li-ion 18650 2200mAh  
3.7 8.14Wh

## Performance and usage instructions:

There are: red (charging), green (main), yellow (fault) three color indicators (or red, yellow and green three-color indicators), a test button, a buzzer (electrical box).

**Main power:** green light, when the light is long on, it means that the mains is normal (Note: the lamp has an automatic voltage conversion circuit, if the mains voltage is about 150V, the lamp will be transferred from the mains state to the emergency state, when the mains voltage rises to about 170V, the lamp will automatically restore the mains state from the emergency state. When using this lamp, check whether the input AC voltage is normal). If this indicator blinks slowly, the lamp enters the monthly inspection state. This flash indicator indicates that the luminaire has entered the annual inspection state.

**Charging:** red indicator light, when the AC input end of the lamp is connected to the AC220V power supply, the circuit in the lamp automatically charges the battery, the battery is charged, the red indicator light is bright, when the battery is fully charged, the red charging indicator light is extinguished, and the circuit automatically switches to the trickle floating charge state after full charge, extending the service life of the lamp.

**Fault:** The indicator is yellow, and the status is as follows:

1. When the battery is not installed or the battery cable is not properly connected, the DC fuse is open, the battery is short-circuiting or failing, or the battery charging circuit is short-circuiting, the yellow indicator blinks at a slow time.
2. The light source is open or short circuited, and the yellow light is blinking quickly when the emergency circuit is faulty.
3. When the annual inspection time is less than 30min, the yellow light is on for a long time.

**Buzzer:** When the lamp fails, it rings for 1S and stops for 10S, reminding the user to repair according to the status of the yellow fault indicator.

**Overdischarge protection:** the lamp circuit has accurate overdischarge protection, when the battery voltage is discharged to 82-85% of the rated voltage, the overdischarge circuit will cut off the discharge circuit in time, and the current is zero after cutting off, which can effectively protect the battery and extend the service life of the lamp.

**Monthly inspection and annual inspection:** The lamp has automatic monthly inspection and annual inspection

functions. If the lamp is in normal use and does not discharge to the state of automatic shutdown during emergency work, the lamp will automatically change from the main power working state to the emergency working state every  $30\pm 2$  days after 48H of power supply and continue for 60S, and then automatically restore to the main power working state, and the green indicator will enter the state of slow blinking. If the lamp does not discharge to the state of automatic shutdown during emergency work every 1 year, it will automatically change from the state of main power to the state of emergency work and continue until the discharge is terminated, and then automatically restore to the state of main power work, and the green indicator light will enter the state of fast blinking. If the emergency working time is less than 30 minutes, the lamp buzzer will sound for 1S, stop for 10S, and the yellow indicator will keep on.

**Note:**

1. Check the appearance for damage before unpacking. Before installation and use, check whether the accessories are complete and read this manual in detail before connecting to the AC power supply to charge;
- 2, the main power supply of the fire emergency light should be controlled by a separate fire switch, not affected by the power control switch of ordinary lamps or other electrical appliances;
- 3, the lamp adopts lithium battery pack, the battery pack is in the empty state, should be charged for more than 24 hours before use;
- 4, the lamp after each emergency, please connect AC power as soon as possible to charge, a long time when not used, will affect the battery life, it is recommended to charge and discharge every three months;
- 5, the user must be safely grounded at the grounding sign when in use;
- 6, the transportation and installation process should avoid violent operation, so as not to affect the performance and protection level of the lamp. The luminaire should avoid storage at a high temperature of greater than  $55^{\circ}\text{C}$  or a low temperature of less than  $0^{\circ}\text{C}$ , when the luminaire is static placed in the state of no main power for more than one year may cause insufficient discharge time, at this time the luminaire should be fully charged and discharged more than three times to restore the normal capacity of the battery and then put into normal use.

**Light source and battery:**

The light source and battery of this series of lamps are replaced by non-users, if necessary, please contact the local dealer or manufacturer.

**Maintenance and daily maintenance:**

Use cotton cloth and high purity alcohol to wipe the emergency lamp shell. Do not use natural water and gasoline, otherwise it will damage the emergency lamp shell and other parts. Do not use in an environment with rain, humidity greater than or equal to 95%, or corrosion. When necessary during the operation of the lamp, the lamp can enter the state of monthly and annual inspection according to the requirements of the test button.