

AC Live Wire Finder

Model: KC-092

Operation Manual



AC Live Wire Finder

Model: KC-092

OVERVIEW

The KC-092 AC Live Wire Finder detects the position and course trend of AC live wires in dry wall through electronic signals and it can also instantly distinguish live wires from ground wires. It is suitable to use in indoor decoration, service and installation of electrical equipments, as well as circuits construction and wires layout.

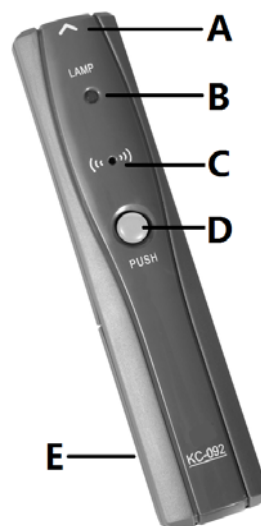
KC-092 AC Live Wire Finder is easy to operate and with high induction. When approaching or detecting the AC voltage, the indicator light of the tool will flash constantly and at the same time beeps sound.

The tool is safe in use and requires no physical contact during detection; it is an essential tool in daily use.

Battery safe prompting

- Please remove the battery when clean the product.
- Remove the battery when not in use for an extended period of time.
- Please install the batteries properly as the instructions of the positive and negative charges
- Please dispose the batteries properly. High temperature will cause explosions and do not burn the batteries. Strap insulated tape around the battery charges to avoid unsafe contacts with other objects. Please follow the local regulations of battery disposing.

TOOL COMPONENTS



- A、Mark position---indicates the edge of the live wire.
- B、Indicator lamp---the lamp goes on when the power is on and flashes when AC voltage is detected.
- C、Buzzer---it sounds when detecting electric AC wires.
- D、Power button---press the button to turn on the power.
- E、Entrance for battery---use 2 AAA batteries.

OPERATION INSTRUCTIONS

- **Battery**

Open the battery door on the back of tool, insert two AAA batteries of 1.5 volt with reference to the correct polarity. Close the battery compartment door.

- **Detection for electrical wires**

1. Place the tool slightly against the wall and switch on the power, the indicator lamp lights up (please keep pressing the power button during detection).
2. Move the tool right and left slowly without rotation and deflection. When approaching to the electrical wires, the indicator lamp lights up and the buzzer sounds, then mark the position of this moment.
3. Keep moving broadwise until the indicator lamp does not blink and the buzzer stops, and this position is another edge of wires area, and the center of the two positions is the central position of the electrical wires.
4. When the signal is strong, the wires area looks broader, so repeat the operation steps above to get the precise position of the electrical wires.

Notice: do not use the tool under the following conditions

1. The surface of the wall is covered with aluminum films and metallic materials.
2. Concrete or brick wall.
3. Situations that condensation is easy to form (condensation under the dry surface also cause incorrect detection).
4. Wall and plate with moisture stream (places that are affected by water like bathroom and kitchen should be excluded).
5. Situations that the glue water or paint is not dry.
6. High temperature and high moisture places.
7. Near strong electrical wave (e.g. broadcasting station and radio wave).

- **Operation tips**

1. When the signal is weak or not steady, please change another place to detect.
2. When the indicator lamp blinks everywhere during detection, it is possible that static electricity exists on the wall surface, so the wall is not suitable for detection.
3. Please do not move against the wall or move bevel ways in case of affecting the precision of detection.
4. When the electrical wires are laid out horizontally, please hold the tool in horizontal direction and detect up and down.
5. AC live wires in metal pipes or metal covered wire, as well as metal walls or walls of high density all cannot be detected, but the live wires in plastic pipe can be detected.
6. The tool can accurately detect the center of electrical wires (make the center as the basis), but the width can only be detected in a range.
7. If the indicator lamp darkles or goes out when using, please check or replace the battery.

- **Example of application**

1. Find out the course trend of electrical wires in walls.
2. Distinguish AC live wires from ground wires (detect when the distance between the two kind of wires are 5cm).
3. Judge that if various electrical equipments are with electricity or if the socket of power supply has voltages.
4. Search for disconnection position inside the cables and electric carpet.
 - Connect one end of the faulty wires to the live wires, other wires (the cable) are connected to zero or ground; open the inductor and move along the wires, the trip point occurs when the indicator lamp stops blinking and the sound stops.
 - When searching for disconnection inside the electric carpet, make one end of the wire connect to the live wires and the other end connect to the zero line.

Cautions

- Operate with care and do not let the tool drop down.
- Do not disassemble the tool in case of damage.
- Do not place the tool with the corrosive gas or other corrosive materials.
- Avoid rain and water.
- Do not exposed the the tool to vibration and high or low temperature environment.
- Storage the tool indoor.
- Do not put the tool in the water ,avoid to damage the tool.
- Remove the battery when not in use for an extended period of time in case of damage of tool by deterioration of battery.

TECHNICAL SPECIFICATIONS

| | |
|-----------------------|---|
| Product Name | AC Live Wire Finder |
| Model | KC-092 |
| Object of detection | 90~250V AC (50~60 Hz) |
| Depth of detection | About 0~40mm (affected by humidity of the wall) |
| Power supply | two AAA batteries |
| Operation current | <20mA |
| Operation temperature | 0°C ~40°C |
| Operation humidity | 30%~70% |
| Storage environment | -20°C ~+60°C, ≤85%(batteries not included) |
| Dimensions | 120mm×25mm×15mm |
| Weight | About 19g (batteries not included) |

- **Tips**
 - Thank you for purchasing our products.
 - We hope you to understand that the tool is not an all-purpose tool that can detect all the materials in the wall.
 - Please read the instruction manual before operation.
 - Keep the tool appropriately after use.

WARRANTY

Within one year from the date of purchase, if any quality problem or non-artificial damage, provide warranty service by the relevant documents.

- **Notice: The warranty does not apply to the following conditions:**
 - Disassembling the laser tool will void the warranty.
 - Any damage resulting from, but not limited to wear, water, being dropped or repairs attempted by others.

Tips :Most part of the product can be recycled, if you need to deal with this product, please according to local laws and regulations to deal with it, instead of throw it into the dustbin.