# LiKang Front inserting coin acceptor

# LK100M+ manual

## Product Features

1.Suitable for various of metal coins; CPU process control, score accurately;
2.Double color light show receive coin, intuitively distinguish true or false coin;
3.Special precise/normal stall, coin smoother;
4.Powerful prevent phishing and other means of cheating, with cheating alarm;
5.Excellent technology in circuit part,stable and reliable quality;
6.Open cover design, completely solve the coins jamming and blocking;

## Steps for usage

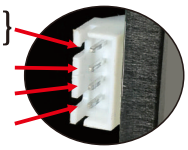
1.Adjust the metal piece on the rear of panel to prevent too large coins. (This metal piece is optional);
2.Take out the plastic coin from the slot, put your coin in;
3.According to machine's motherboard,select the output mode NC(normally close)/NO(normally open).Usually use NC stall
4.According to machine's motherboard,select the output pulse switch (25ms/50ms/100ms,usually use 25ms) ; ;
5.According to your coin,select the sensitivity.If you require a high accuracy,adjust it to "precision".If some true coins were misjudged as false coins, adjust it to "normal";
6.Install coin acceptor,it can be used after connecting power and signal wiress.

A Step①:
Adjust the metal piece to prevent too large coins.
Adjustment method: Loosen the screws, slide metal sheet vertically to the appropriate location. Down through, the coin diameter is smaller; upward through, the coin diameter is larger. Transfer to the appropriate position, and then tighten the screws. (This metal part is optional)

B Step②:Pull up, remove the red example coin, then put your reference coin.

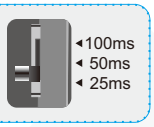
C Adjust the sensitivity slightly, the factory has adjusted to a reasonable position.

D
Code table(gray)
Power 12V(red)
Signal output(white)
Power Ground(black)
Code table(gray)

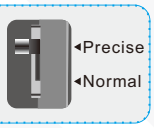


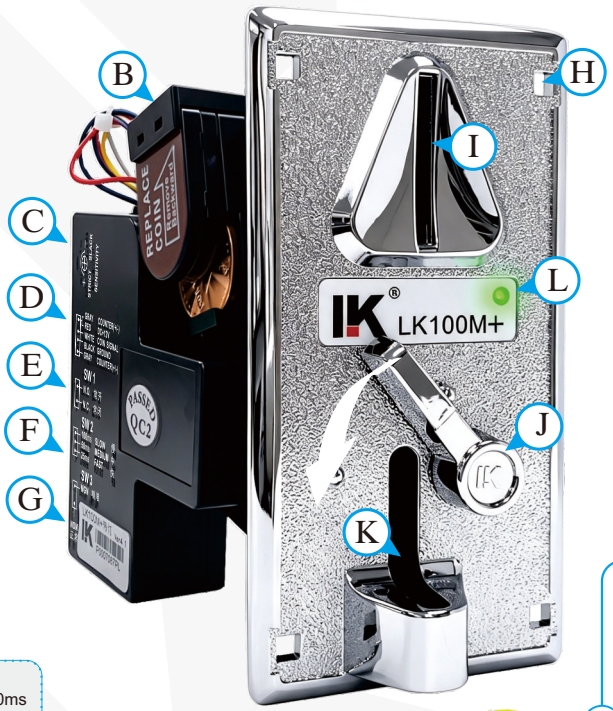
E Step③:Set SW1 output mode, select NC/NO, the factory setting is NC.

F Step④:Set SW2, select the output pulse switch(25 ms/ 50ms/100 ms),the factory setting is 25ms.

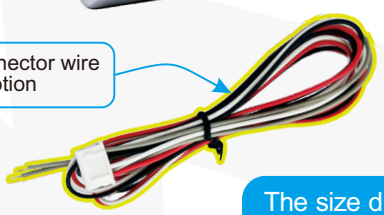



G Step⑤:Set SW3, sensitivity switch, select precise/ normal, the factory setting is Normal.




4 pin connector wire can be option



H Mounting holes: With a square neck screw diameter of 4mm

I Coin slot: Please use the coins $\phi$20mm~$\phi$29mm,the thickness of the coins is 1.2mm~ 2.4mm.

J Coin bar;
When a larger diameter coin or a foreign body stuck,flip the level to exit the foreign coin.

K Coin mouth:
False coin/foreign body from here to exit.

L Indicator light :
- ★ No sample coin display red;
- ★ With sample coin display green ;
- ★ Insert true coin display green flicker more than once ;
- ★ Insert false coin display red flicker more than once ;
- ★ Coin acceptor stop working when display red (or flickering red ).

## Communication circuit

Coin detected "real coin", when the circuit gives a pulse signal (the pulse signal can be selected by the switch SW1,normally closed or normally open output;SW2 switch to select pulse width,see Figure 1)

The circuit output of this product is a triode collector or MOS tube drain open output , When it is used,users are advised to use optocouplers to receive signals when designing the interface circuit (see Figure 2).

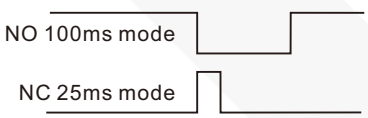



Figure 1

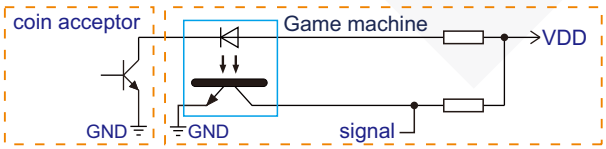
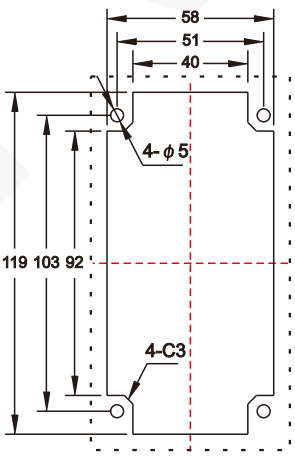
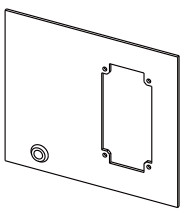
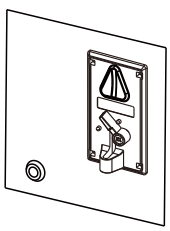



Figure 2

## The size diagram and effect diagram Unit:mm



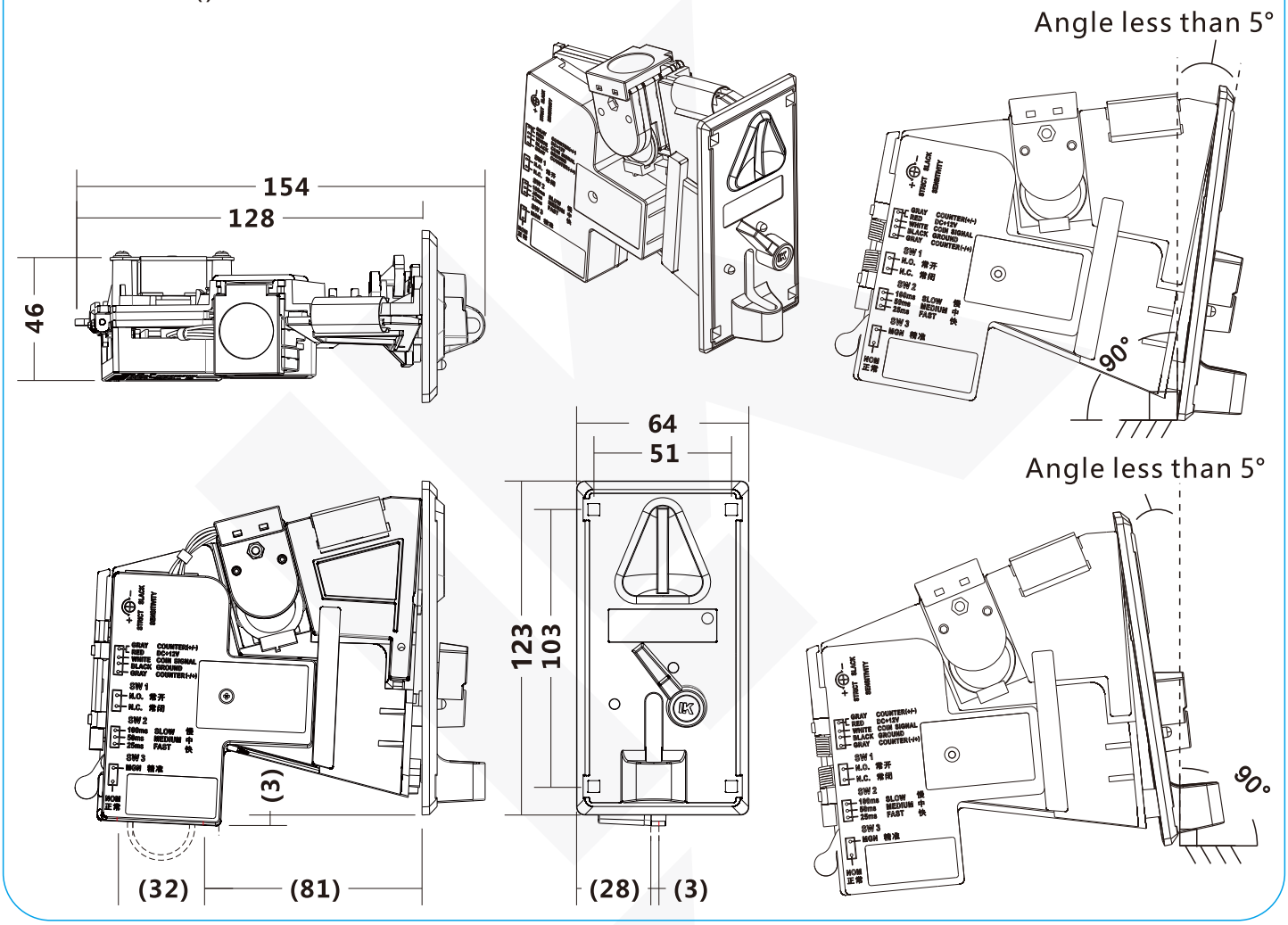





Likang Electronic Technology Co.,Ltd.
www.lk.cm

## Product Size Unit: mm

Note: Band () is the relative size of the coin slot




## Common abnormalities handling

A.Coin not passed
1.If there is poor contact in the coin power outlet;
2.If the wiring is correct;
3.If there is a foreign body in the coin track;
4.If power supply 12V is normal;
5.If the out mouth of coin is smooth;
6.If prototype is fit correctly;
7.If mounting depth is enough;
8.If there is a foreign body in the coin track, such as electric eye position is blocked.

B. Coin not score
1.If SW1 NO/NC is set matched;
2.If SW2 plus width is matched;
3.If the signal is connected well,if connection method is correct;
4.Coin signal and open collector output,if the target board is connected with pull-up resistor.

C. Coin not smooth
1.Adjust precise switch, precision stall:more stringent selection, commonly normal stall;
2.If prototype is fit correctly;
3.If coin slot is smooth,such as hopper tank depositing port and slot machine outlet slot are aligned;
4.Adjust VR knob,clockwise screening more relaxed, counterclockwise more strict.

D. Accept false coin
1.Adjust precise switch to precision stall;
2.Counterclockwise adjust VR knob(counterclockwise more strict)

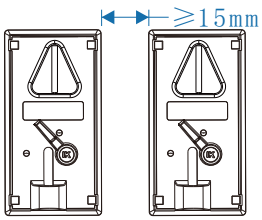
E. Code mode doesn't move
1.If the wiring is correct(An end of the code table is connected with code table line , the other end of DC+12V);
2.If the code mode is bad;
3.Cable resistance is too large, resulting in power is below standard;
4.The power supply voltage and rated voltage code table required are the consistent.

## Basic parameters

| | | | |
|---|---|---|---|
| Operating voltage | | | DC12V±10% |
| Standby currency | | | <50mA |
| Operating currency (Maximum current) | | | <650mA |
| Operating temperature | | | -15℃~65℃ |
| Output mode | | | OC. |
| Output signal | | | 25ms/50ms/100ms |
| Coin diameter | | | 20~29mm |
| Coin thickness | | | 1.2~2.4mm |
| Angle assembly | | | -5°~5° |
| Individual packaging | Meas | | 161*69*131mm |
| | Gross weight | Without wire | 397g |
| | | With wire | 406g |
| Carton packaging | Package | | 30PCS/SET |
| | Meas | | 51*37*28cm |
| | Gross weight | Without wire | 12.6KG±5% |
| | | With wire | 12.9KG±5% |

### Assemble requirements

To prevent interference from adjacent signals, the adjacentmounting distance should be greater than 15mm.




If product technology improved, it will be edited in the new manual without notice.
The ultimate interpretation of this manual is up to GuangzhouLikang Electronic Technology Co.,Ltd.

V3.41

Likang Electronic Technology Co.,Ltd.
www.lkchina.asia