

# AKE BILL ACCEPTOR (MXN)

V2.1



# Manual

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## I. Brief Introduction

The AKE V2.1 is a Bill Acceptor it has no Cash Box and its a smaller, easy installation & Maintenance, Lower cost and reliable Bill Acceptor.

AKE V2.1 adopts multi-spectral identification sensor, electronic anti-fishing sensor, light and durable all-plastic structure design,

It has automatic and accurate banknote identification, to Identify true and false banknote and the banknote amount through specific communication method. Support automatically correct the sensors to improve the counterfeiting rate, and to minimize the abnormal situation such as the banknote-stuck.

## II. Features.

- Multi-spectral identification sensor, High accuracy of identification.
- Electronic Anti-finish design, its less banknote stuck compared with others
- High-Speed identify  $\leq 2s$
- Feeding the banknotes by any directions (4 sides all work perfects, make sure banknotes flatten and clean)
- Support Automatically Sensors Correction. less errors less maintenance cost
- Accept Multi-types of Banknotes (To support more banknotes need Update the System.)

## III. Technical Data.

- Default Accept Banknotes;
  - 1) TT295: MXN 20、50、100、200、500. Mexico banknotes.
- Rate of identification:  $\geq 98\%$  Please make the Banknote is, Clean, no damage, not wet, and Flatten.
- Feeding Banknotes : Any sides, Any direction .
- Identify Speed: About 2s
- Power IN; DC 12V, Stand-by current;  $< 100mA$ , Working peak current;  $< 1000mA$
- Working Condition:
  - Working:  $-10^{\circ}C \sim 50^{\circ}C$ ,  $0 \sim 90\% RH$  ( No Freezing )
  - Storage:  $-25^{\circ}C \sim 80^{\circ}C$ ,  $0 \sim 95\% RH$  ( No Freezing, dry it before using)
  - Communication interface description : Support Pulse/ HI /MDB/CCNET

## IV. DIP SWITCH Settings;

There are 2 sets of DIP SWITCHES. 1 SET with 4 DIP SWITCH, the other sets with 10 DIP SWITCH.

- **4 DIP SWITCH SETTING;**

FUNCTION	SW1	SW2	SW3	SW4
Pulse Signal Out Low voltage (NC)	ON			Function Remain
Pulse Signal Out High voltage (NO)	OFF			
Pulse Model		ON	OFF	
Serial protocol Model		OFF	OFF	
CCNE Model		ON	ON	
MD Model		OFF	ON	

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- 1) SW2,SW3 Choose the Working Model
- 2) SW4 Function remain.
- 3) SW1 working only when you choose the working model is Pulse model.
- 4) Now only support Pulse/Hi Two model, the CCNET,MDB will coming soon.

● **10 DIP SWITCH SETTING**

FUNCTION	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10
20 pulse signal /20 MXN	OFF	OFF	OFF							
40 pulse signal /20 MXN	OFF	OFF	ON							
60 pulse signal /20 MXN	OFF	ON	OFF							
80 pulse signal/20 MXN	OFF	ON	ON							
100 signal /20 MXN	ON	OFF	OFF							
Remain	ON	OFF	ON							
Remain	ON	ON	OFF							
Remain	ON	ON	ON							
Fast Speed pulse(working:50ms standby:100ms)				ON						
Slow Speed pulse(Working:100ms Standby:200ms)				OFF						
Control signal=Low voltage Enable					ON					
Control signal=High voltage Enable					OFF					
Accept 20 MXN						ON				
Reject 20 MXN						OFF				
Accept 50 MXN							ON			
Reject 50 MXN							OFF			
Accept 100 MXN								ON		
Reject 100 MXN								OFF		
Accept 200 MXN									ON	
Reject 200 MXN									OFF	
Accept 500 MXN										ON
Reject 500 MXN										OFF

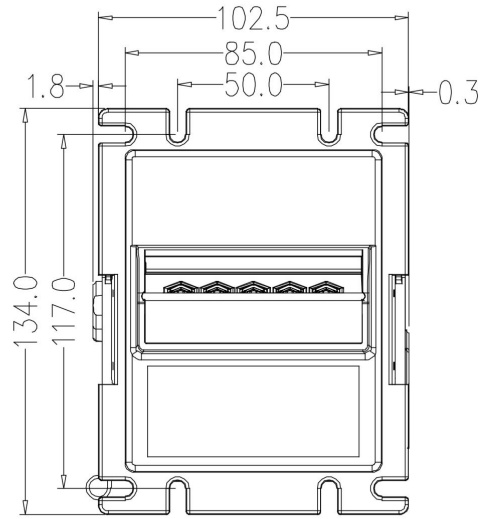
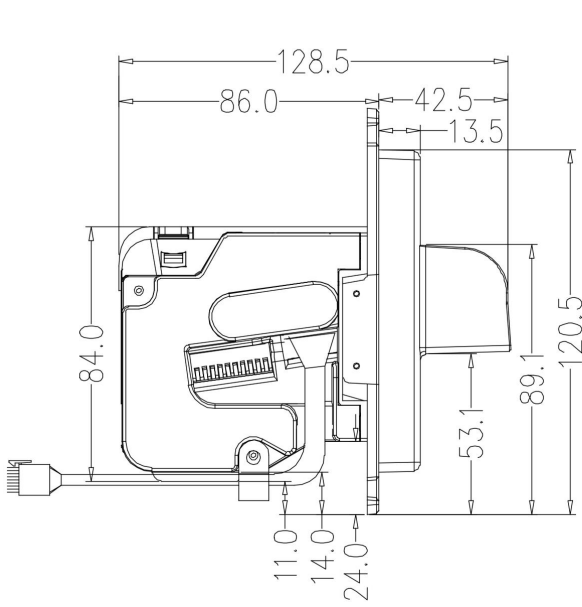
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**Note:**

- 1) SW1~SW5 , Working only when Pulse Model
- 2) After you change the VALUE of the DIP SWITCH please re-start.

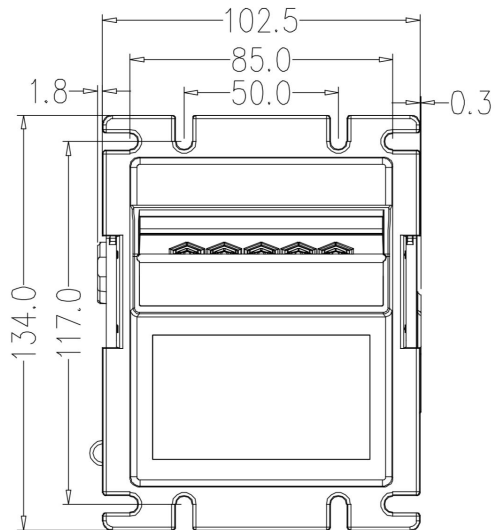
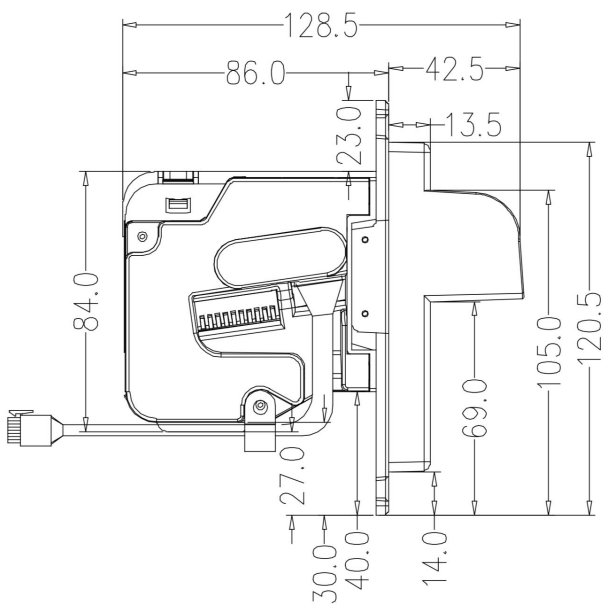
# V. Dimension

## 1. TT295



Unit:mm

## 2. TT298



Unit:mm

# VI. Installation

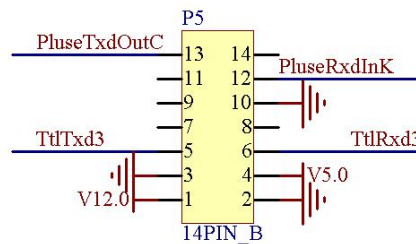
(L): Max Length of the Banknote.

(L2):Need keep at least Length 68mm for the base open.

(L1):CASH BOX Depth .

# VII . Communication interface description

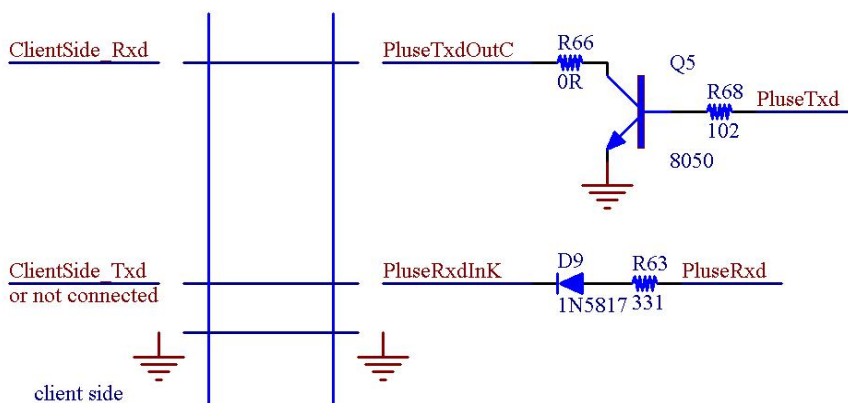
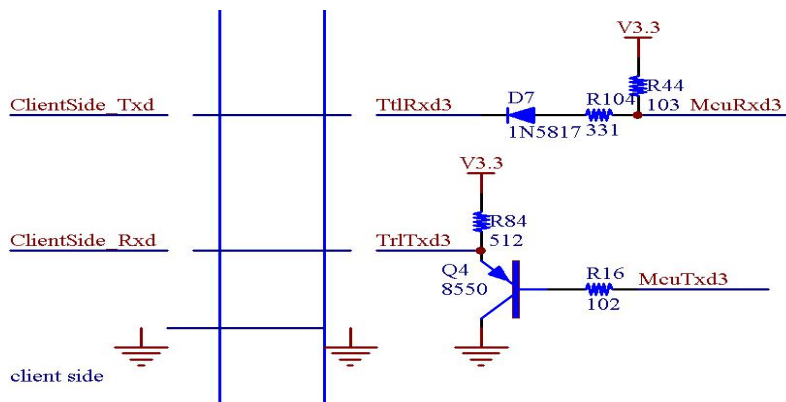
## 1.External interface line sequence definition



## 2. Internal UART Interface & External Signal schematic diagram (Serial port、CCNET Use only):

## 3. Internal PULSE Interface & External Signal schematic diagram (PULSE Use only):

Generally Use ClientSide \_Txd Hanging, ClientSide \_Rxd connect to Pulse counting device.



## **VIII . Failures & Solutions:**

### **1. Turn On machine, Bill Acceptor no respond.**

Power cable loosen, please check the Bill Acceptor Power cable

### **1. Turn on Machine, 5 Red lights on, and 2 of them will switch Color from Red to Yellow.**

Check if The Tunnel Stuck or try open and close the Tunnel

### **2. Turn on machine, 5 Red lights Keep On.**

Serial Port disconnected, Check the Communication Cable,check if its in the Right Model.

(Pulse Model or Serial protocol Model)

### **3. Feeding Banknote,and after 2 seconds, Return Banknotes.( Its on Green Lights)**

Check the Communication Cable or Machine main board setting error.

### **4. Turn on Machine Green lights on, Feeding Banknote and return right way.**

Check the DIP SWITCH SETTINGS,then Restart

### **5. Payout Coins Wrong.**

Please check the DIP SWITCH Settings, and Main board Settings.

### **7. After the machine has been used for a while ,and if the 5 Red Lights keep Twinkling.**

Tunnel is Stuck by something.Check and clean the Tunnel.