



Coin Acceptor

**UCA**

*Series*

Installation Guide



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## 1. Introduction

### 1-1. Overview

UCA series is designed as reliable coin acceptors which are able to work steadily in high temperature for high-security with acceptance rate up to 96% or greater.

Moreover, UCA Series includes UCA1, UCA2, UCA3 and UCAE for different accepted coins and applications to fulfill your needs.

### 1-2. Features

- High working temperature for coin acceptance.
- Coin sorter option available for UCA1 and UCA2.
- Eight coin channels available at once.
- Mechanical and electrical anti-string functions.
- Accepting speed up to 3 coins per second.

## 2. Specifications

### General

<b>Acceptance Rate:</b>	96 % or greater
<b>Accepting Speed:</b>	Approx. 3 coin/sec
<b>Interface:</b>	Pulse, RS232 (TTL level)
<b>Coin Parameters:</b>	UCA1 & UCA2- Diameter : 16mm~33mm Thickness: 1.6mm~3.3mm UCA3 & UCAE- Diameter : 19mm~33mm Thickness: 1.6mm~3.3mm



**Installation: Indoor use only!!**

### Electrical

<b>Power Source:</b>	12V DC (10V~16V DC)
<b>Power Consumption:</b>	Standby : 0.05A, 0.6W Operation: 0.2 A, 2.4W Maximum: 0.5 A, 6 W
<b>Operation Environment:</b>	Operation Temperature: -5°C~60°C Storage Temperature : -20°C~75°C Humidity: 30%~85% RH (no condensation)

### Mechanical

<b>Outline Dimension:</b>	Refer to page. 4
<b>Net Weight:</b>	Approx. 0.35 kg

## 3. Packing List

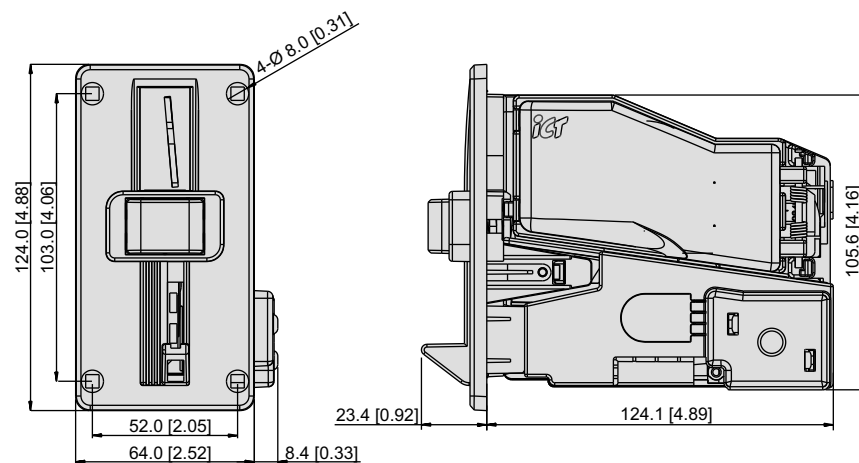
<b>Main:</b>	UCA Series Coin Acceptor
<b>Accessory:</b>	Harnesses: Refer to 5-2 UCA Series Installation Guide UCA Series Switches Setting Guide

Table 1

Mode Type	Harness	Others
Pulse	Refer to 5-2	Screw pack
RS232	Refer to 5-2	Screw pack

## 4. Dimension

Figure 1



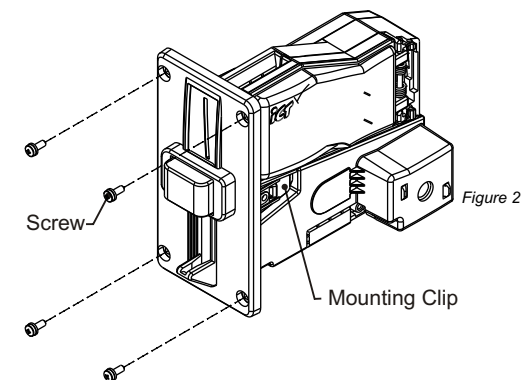
Unit : mm [inch]

## 5. Installation

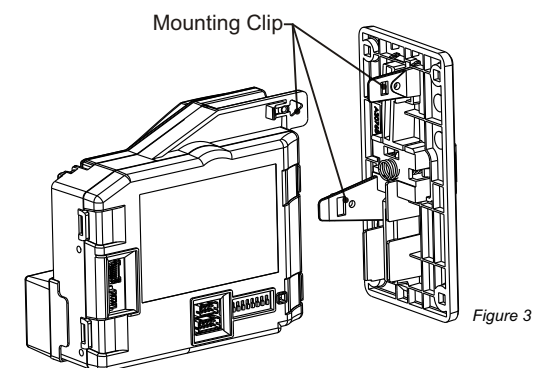
### 5-1. How to Install?

To install UCA Series coin acceptor on your machine, please follow the steps as below:

1. Use four screws to fix bezel on the machine.



2. Fix main base on bezel by mounting clips.



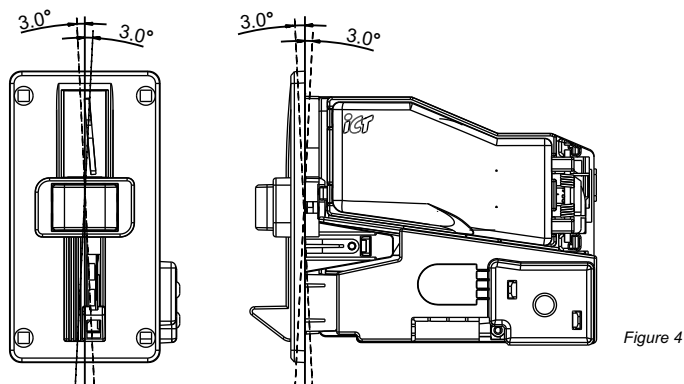


Figure 4



UCA Series is not supposed to be aslope over 3°.

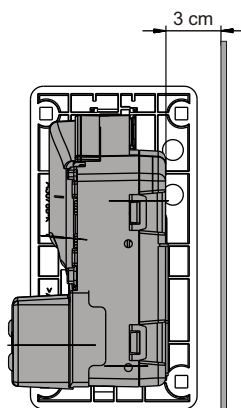


Figure 5



To make sure UCA Series work smoothly, install machine farther than 3 cm from metal items is recommended.

## 5-2. Harness Application

### 5-2-1. Connector

#### ▪ UCA1/ UCA2

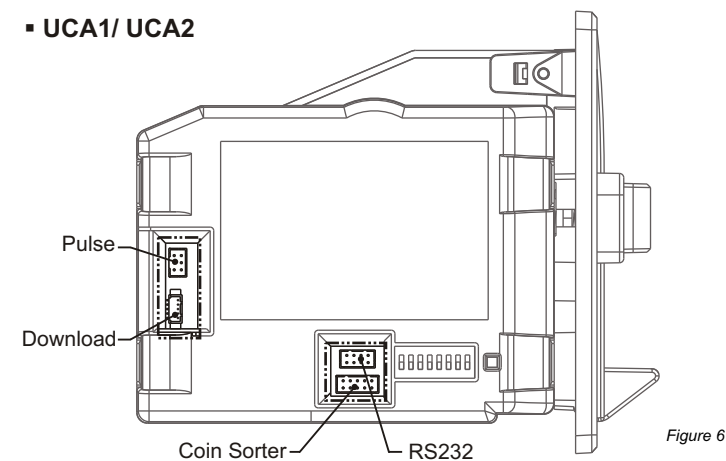


Figure 6

#### ▪ UCA3/ UCAE

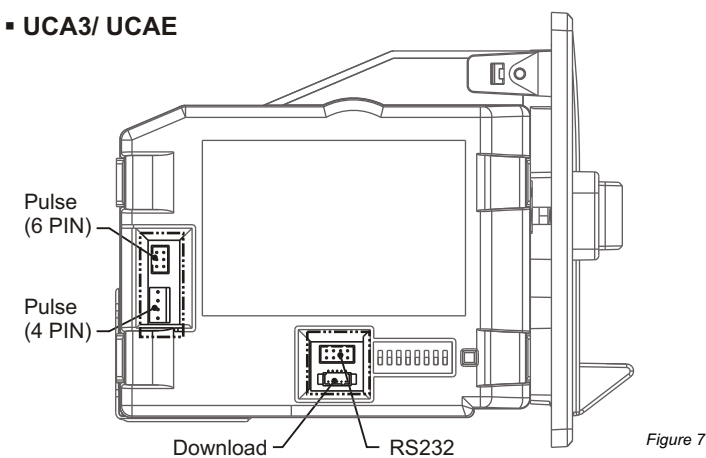


Figure 7

Table 2

Interface	Used Voltage	Usage	Harness	Page
Pulse	10V~16V DC	Power & *Data Comm.	WEL-RMS03	9
		Power & *Data Comm.	WEL-RMS02(Optional)	10
		Extension Wire	CU-R961-1(Optional)	11
RS232	10V~16V DC	Power	WEL-RMS03	9
	+5V TTL	*Data Comm.	WEL-R7U06	12

\*Data Comm.: Data Communication.

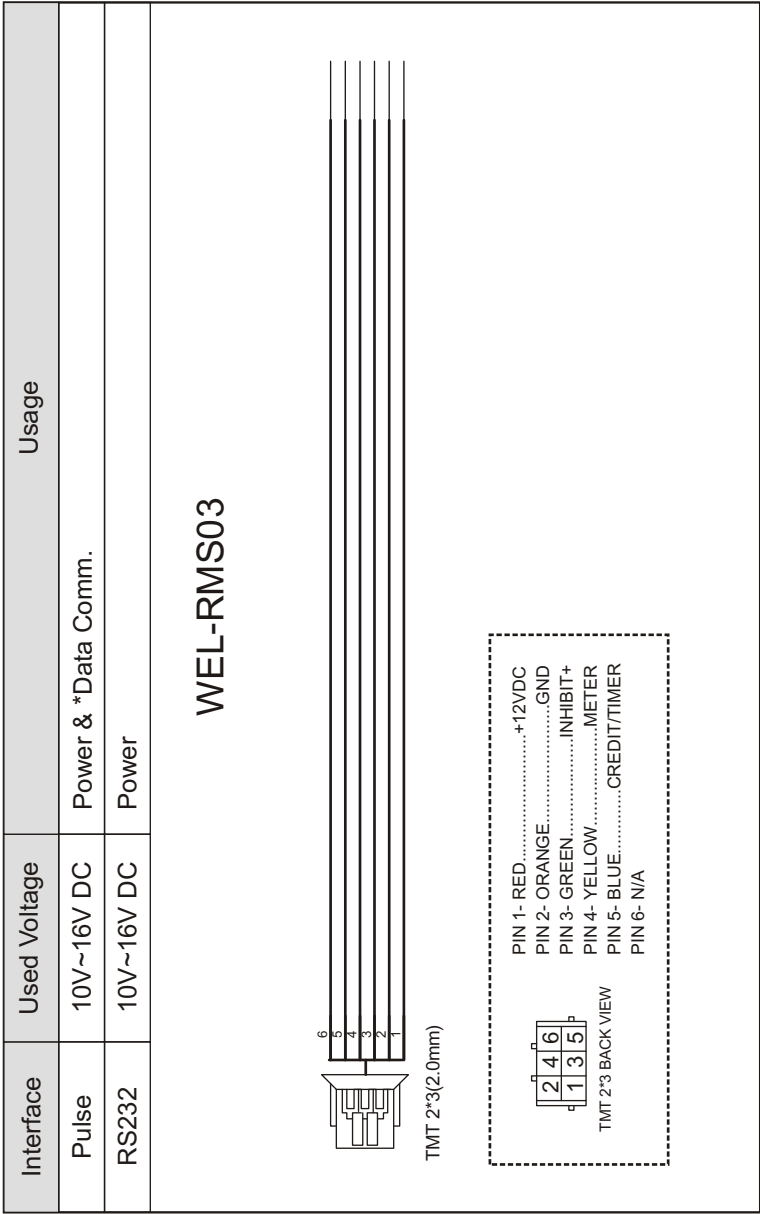


Figure 8

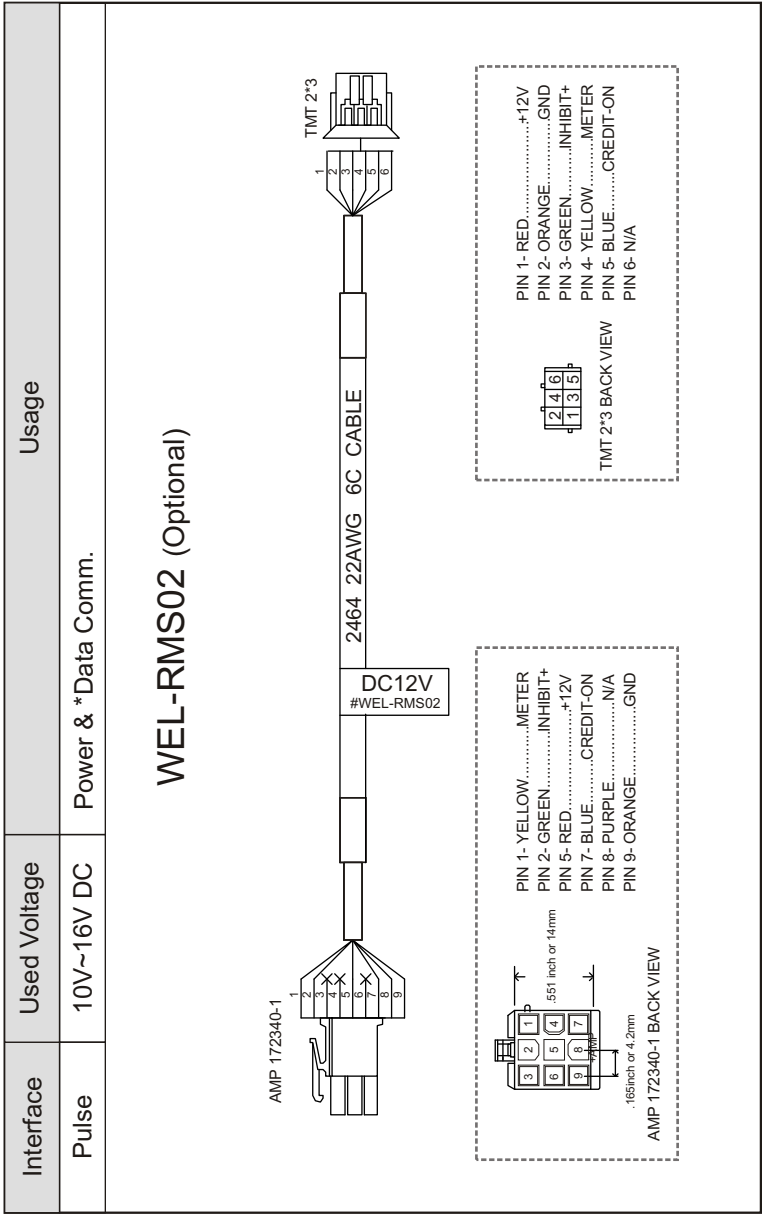


Figure 9

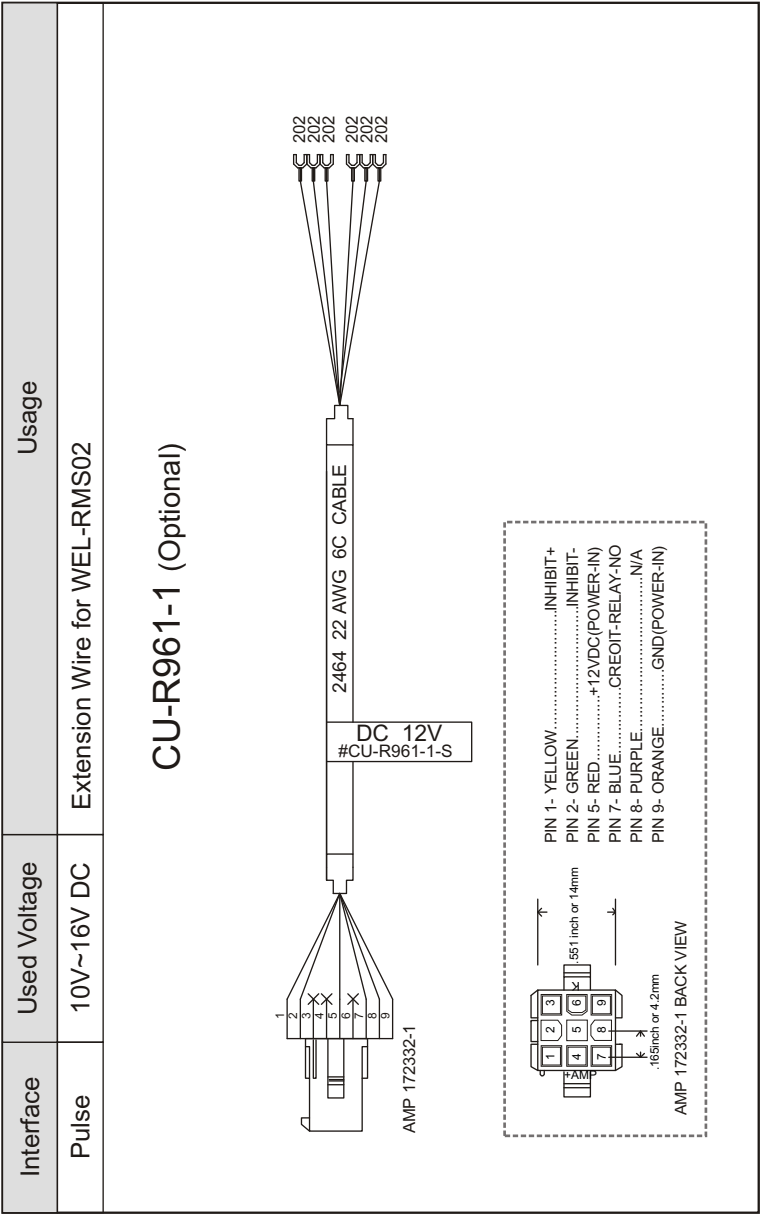


Figure 10

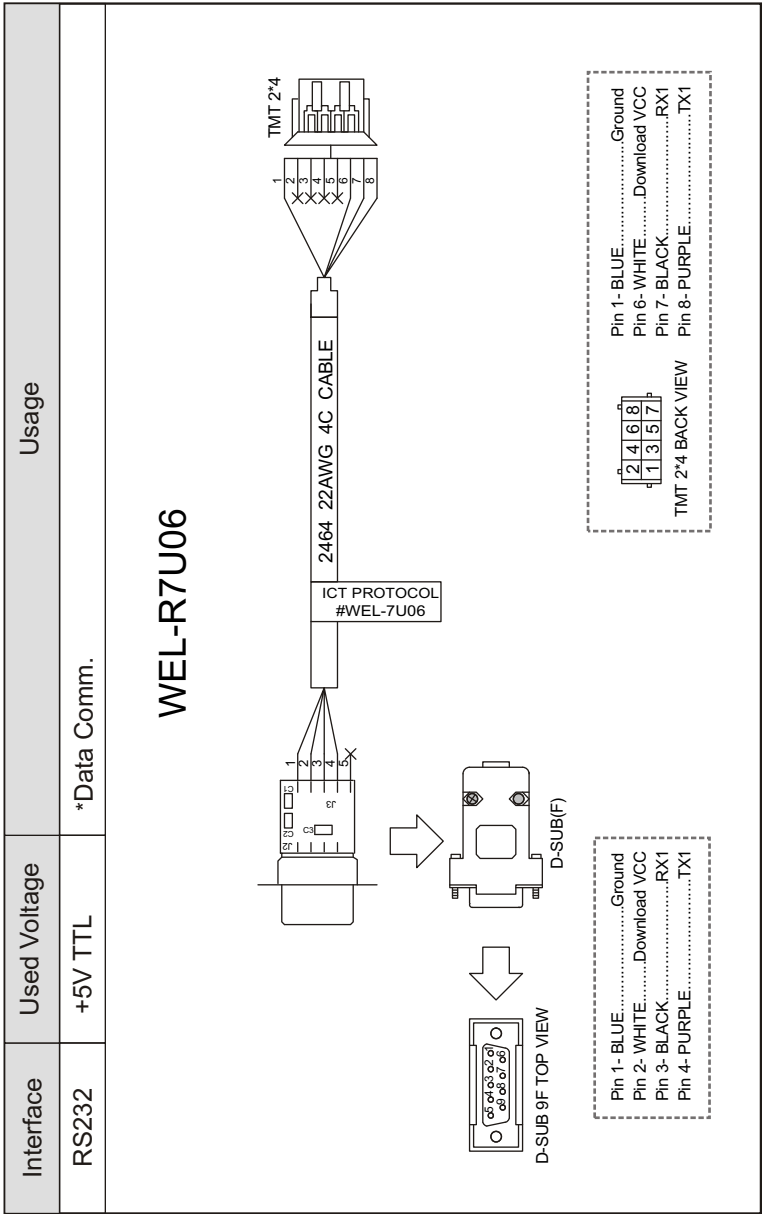
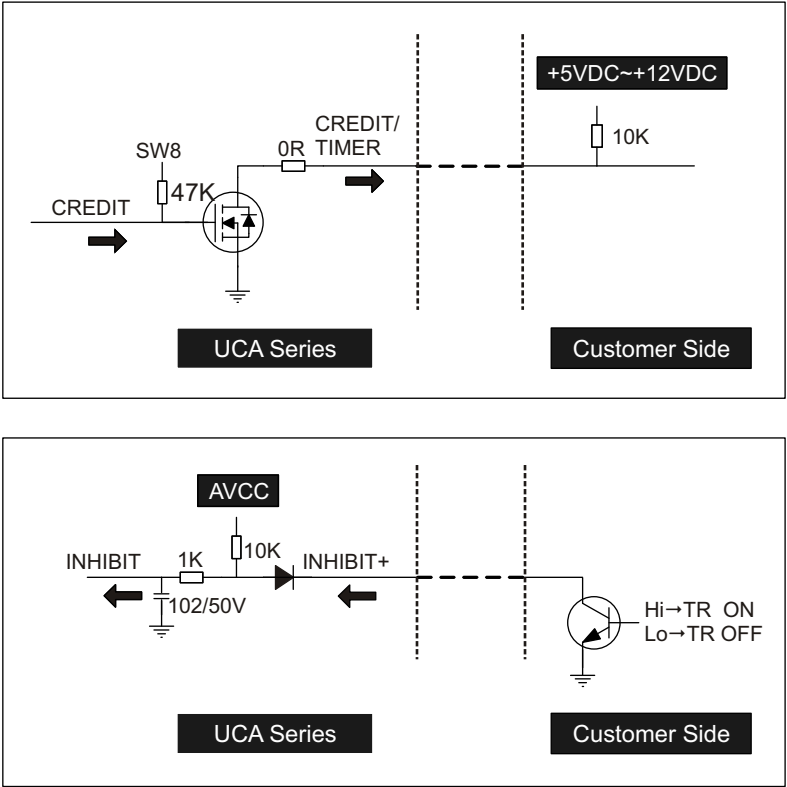


Figure 11

### 5-3. I/O Circuits

Pulse Interface.

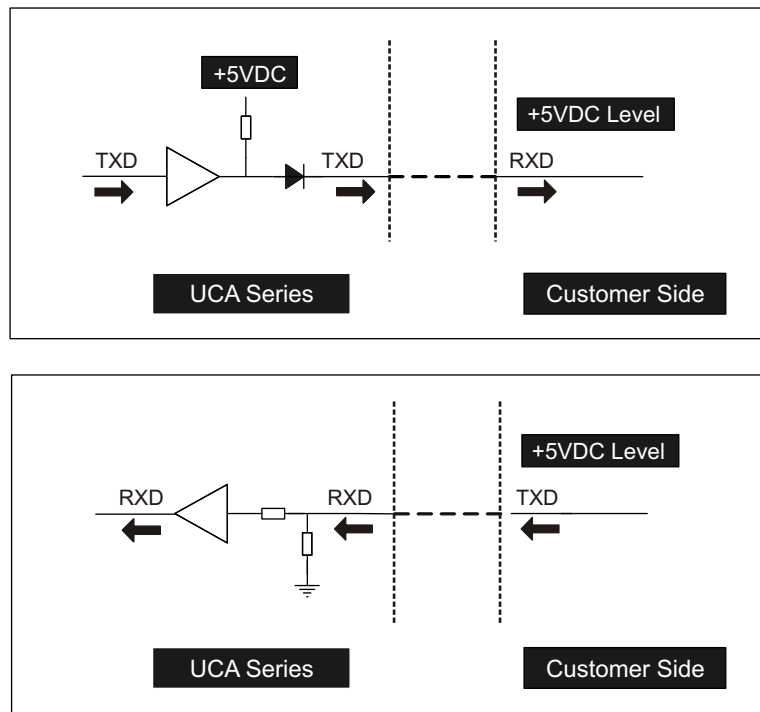
Figure 12





## RS232 Interface.

Figure 13



## 5-4. DIP Switch Setting

The DIP switches are located on side of UCA Series. DIP switch setting varies according to different functions which are used by users.

For DIP switch setting which fits your needs, please refer to “UCA Series Switch Setting” guide in the package.

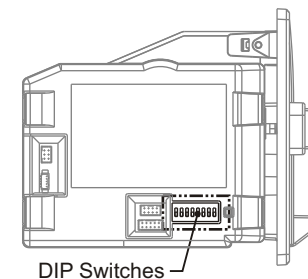
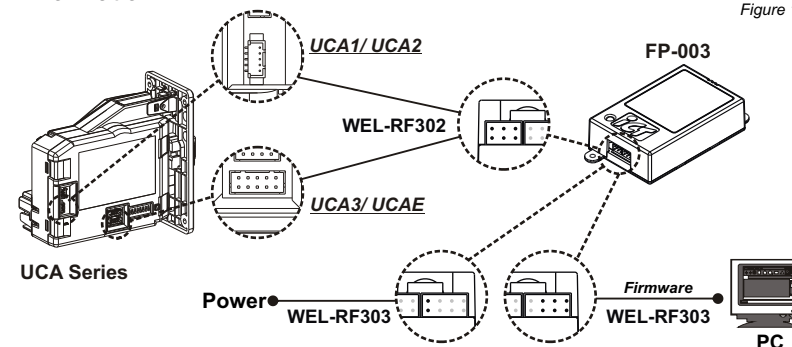


Figure 14

## 5-5. Software Download and Upgrade

To download and upgrade the software to UCA Series, the programmer (FP-003) is needed. Please contact ICT to purchase FP-003 and refer to FP-003 user guide for software download and upgrade information.

Figure 15



Power must be applied to UCA Series after connecting.

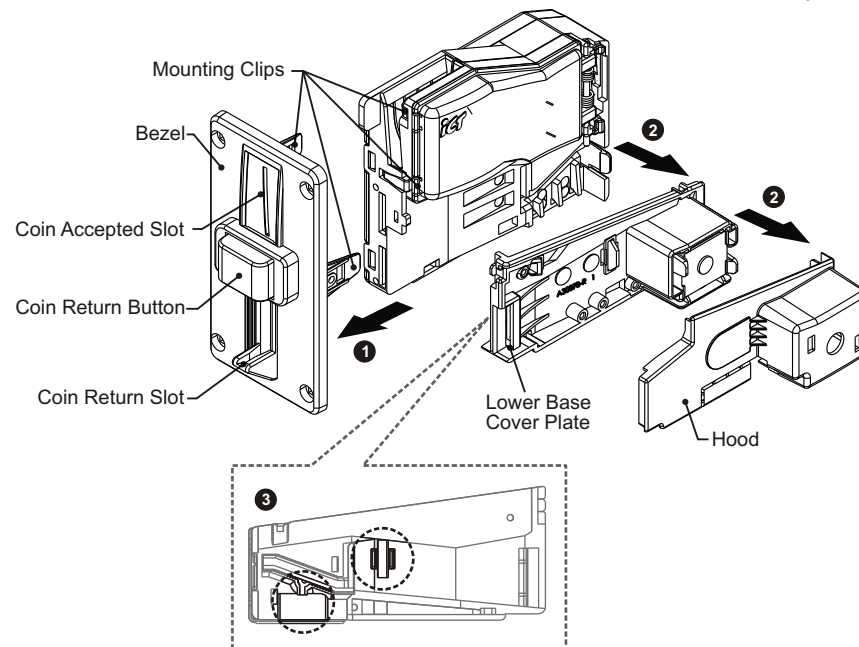
## 6. Maintenance

To make sure UCA Series coin acceptor always works smoothly, please clean the internal sensors regularly.

To clean the internal sensors:

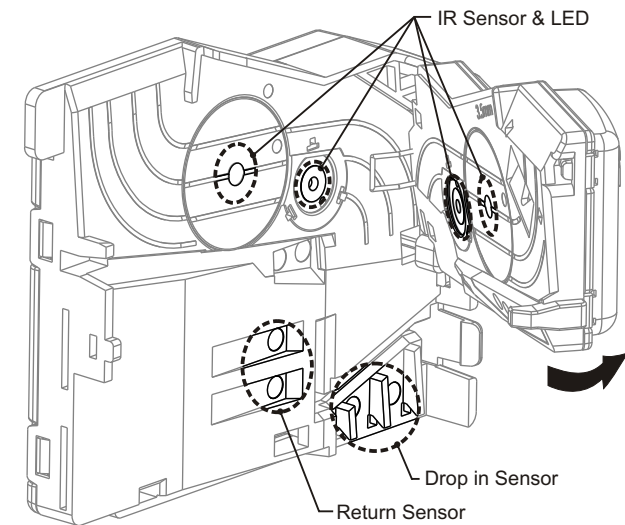
1. Remove bezel by releasing mounting clips and pulling it out.
2. Release the clip and remove lower base cover plate and hood.
3. Use a soft, dry cloth, or towel to clean lens.


Figure 16



4. Open upper base cover plate and then use a soft, dry cloth, or towel to clean sensors.

Figure 17



 <b>Maintenance Notice</b> (Any improper maintenance will result invalid warranty.)	
<b>Recommended</b>	Mild, non-abrasive, soap water.
<b>DO NOT USE</b>	Organic solvent , Alcohol, Volatility liquid.

## 7. Troubleshooting

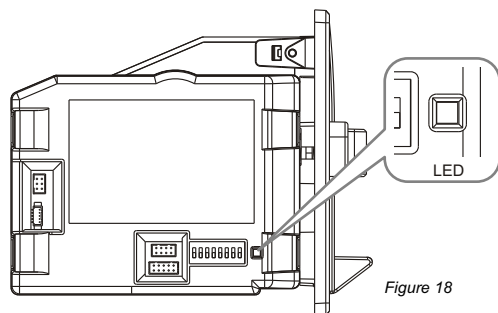


Figure 18

Table 3

LED Flashes			Status	Corrective Actions
Green	Orange	Red		
ON	N/A	N/A	Power ON	N/A
N/A	ON	N/A	INHIBIT	N/A
N/A	Flashes	N/A	I/O Test Mode	N/A
N/A	N/A	1	First coil set error	Call ICT or agents for technical support.
N/A	N/A	2	Second coil set error	
N/A	N/A	3	Fish sensor error	Inspect for foreign objects in coin path and clean.
N/A	N/A	4	Drop sensor error	
N/A	N/A	5	Return sensor error	
N/A	N/A	6	IR sensor error	
N/A	N/A	7	Program error	Call ICT or agents for technical support.
N/A	N/A	Fast 2	A Stringing attempt has been detected.	Inspect for foreign objects in coin path and clean.



If the error can not be solved after corrective actions or happen again, please contact ICT or agents for technical support.

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