



(ccTalk) SCA1

Coin Acceptor

Installation Guide



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1. Introduction

1-1. Overview

SCA 1 is designed as a reliable coin acceptor which is able to work steadily for high-security with acceptance rate up to 96% or greater and high accepting speed to provide you the most convenient service.

1-2. Features

- 16 channels available at once.
- Mechanical anti-string function.
- High acceptance rate up to 96%.
- High accepting speed up to 3 coins per second.

2. Specifications

General

Coin Parameters	Diameter : 17~29mm Thickness: 1.3~3.3mm
Accepting Speed	1 coin / 0.7 sec
Acceptance Rate	96% or greater
Interface	Parallel, ccTalk

**Note: For ccTalk information, please refer to Appendix.*

Electrical

Power Source	DC 10V~16V
Power Consumption	Standby : 0.03A, 0.36W Operation : 0.1A, 1.2W Maximum : 0.35A, 4.2W
Operation Environment	Operation Temperature: -10°C~55°C (Temperature Change: Max.0.2°C/min) Storage Temperature: -25°C~70°C Humidity: 30%~85%RH (no condensation)

Mechanical

Outline Dimension	Refer to Page.5 & 6
Installation	Vertical, Max. Deviation: ±2°
Weight	Approx. 0.25kg (Net Weight)

3. Packing List

Main

SCA1 Coin Acceptor

Accessory

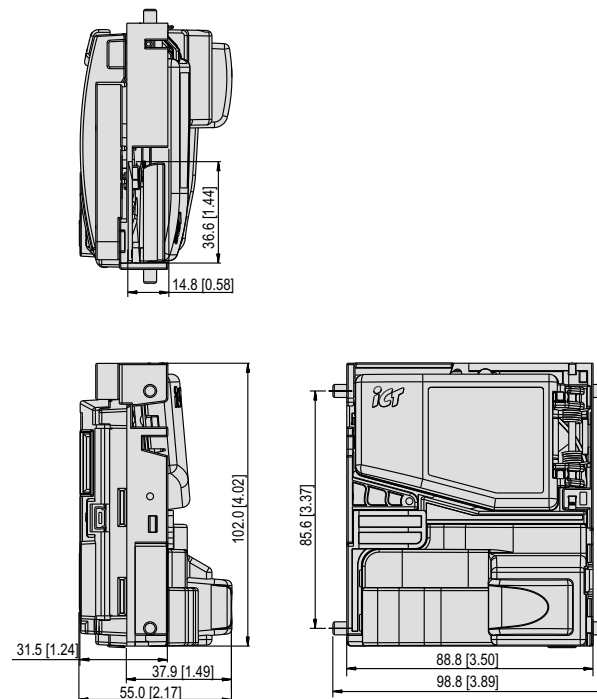
Harness: Refer to Page.13

SCA1 Installation Guide

4. Dimension

<Flow Type>

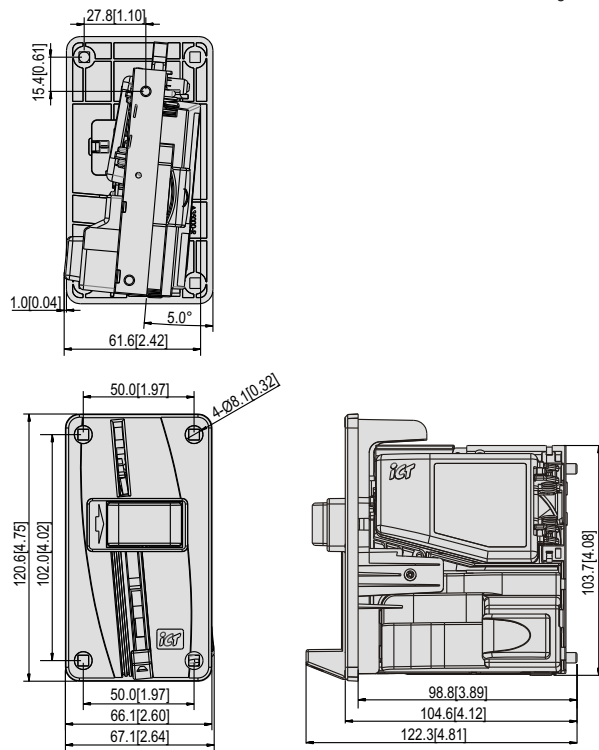
Figure 1



Unit : mm [inch]

<Front Type>

Figure 2



Unit : mm [inch]

5. Installation

5-1. How to Install SCA1 in the machine?

5-1-1. Flow Type

To install SCA1 in the machine, we suggest you to hang SCA1 in the machine (as Figure 3) using the lateral mounting studs (as Figure 3-1).

Figure 3

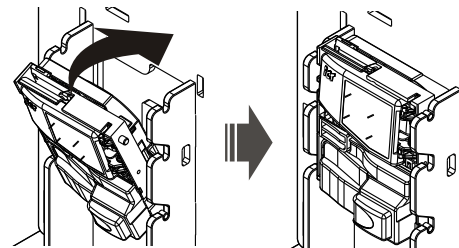
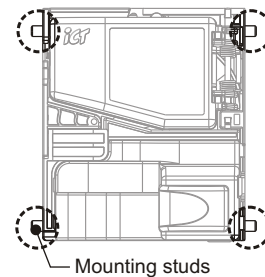


Figure 3-1

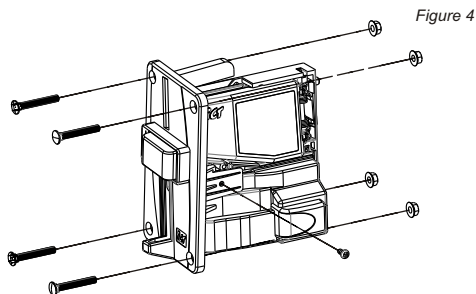


Mounting studs

5-1-2. Front Type

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.

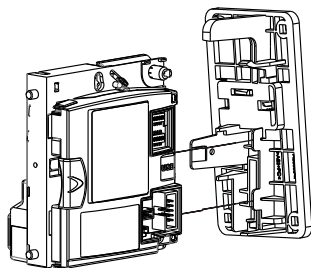


Figure 5

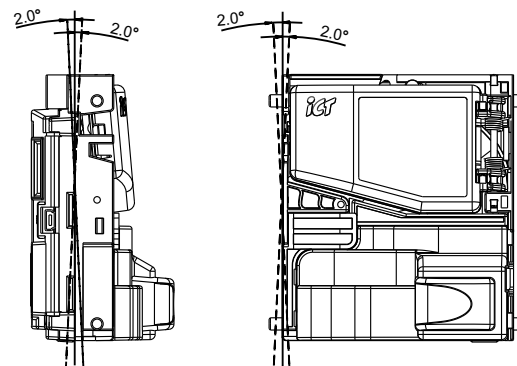


Figure 6

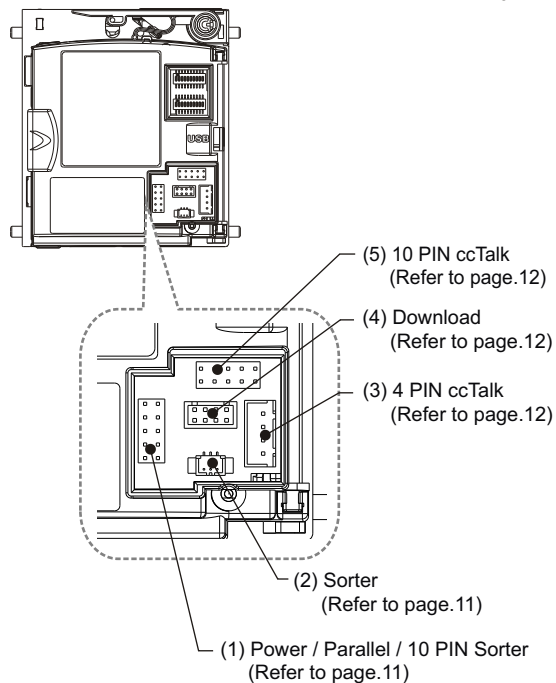


The deviation of SCA1 should be less than 2° (as Figure 6).

5-2. Connector & PIN Assignment

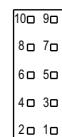
◆ Connector

Figure 7



◆ PIN Assignment

(1) Power / Parallel / 10 PIN Sorter



Power & Parallel

PIN 1- I_GND	PIN 6- INHIBIT_LINE
PIN 2- +12V IN	PIN 7- COIN_LINE1
PIN 3- COIN_LINE5	PIN 8- COIN_LINE2
PIN 4- COIN_LINE6	PIN 9- COIN_LINE3
PIN 5- RETURN	PIN 10- COIN_LINE4

10 PIN Sorter

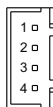
PIN 1- I_GND	PIN 6- N/A
PIN 2- +12V IN	PIN 7- N/A
PIN 3- COIN_LINE5	PIN 8- N/A
PIN 4- COIN_LINE6	PIN 9- N/A
PIN 5- N/A	PIN 10- N/A

(2) Sorter



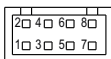
PIN 1- SORTER_SOL1
PIN 2- SORTER_SOL2
PIN 3- SORTER

(3) 4 PIN ccTalk



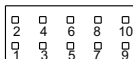
PIN 1- +12V_I
PIN 2- N/A
PIN 3- I_GND
PIN 4- DATA

(4) Download



PIN 1- GND	PIN 5- /RESET
PIN 2- TX22	PIN 6- +5V
PIN 3- RX22	PIN 7- RX11
PIN 4- PROGRAM	PIN 8- Tx11

(5) 10 PIN ccTalk

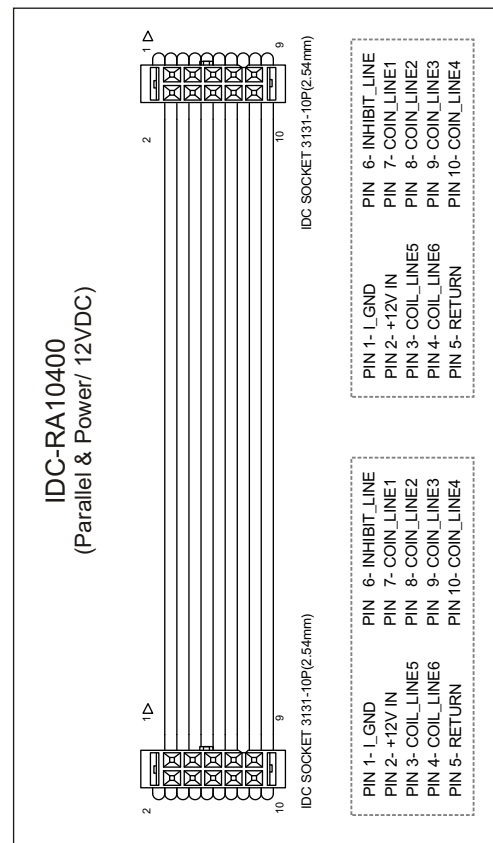


PIN 1- DATA	PIN 6- N/A
PIN 2- N/A	PIN 7- +12V_I
PIN 3- N/A	PIN 8- I_GND
PIN 4- N/A	PIN 9- N/A
PIN 5- N/A	PIN10- N/A



Please contact ICT FAE for more detail.

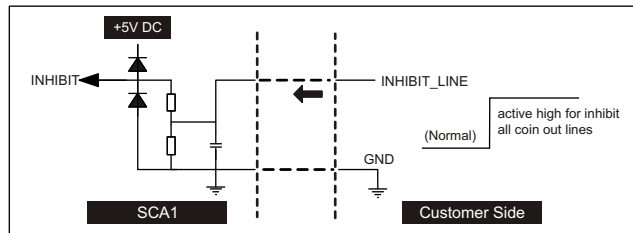
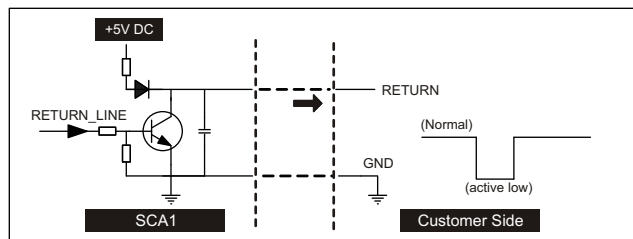
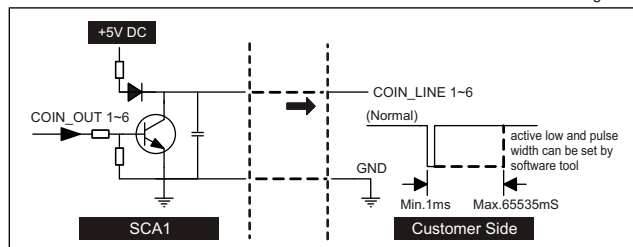
Figure 8



5-3. I/O Circuits

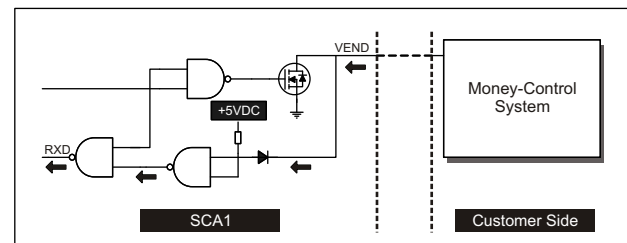
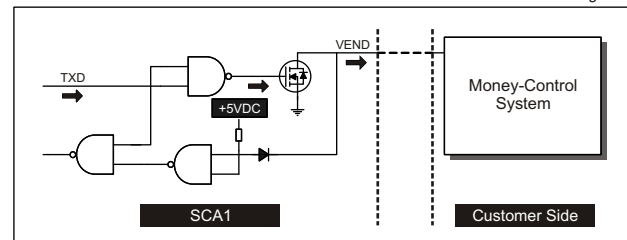
Parallel Interface

Figure 9



ccTalk Interface

Figure 10



5-4. DIP Switch Setting

The DIP switches are located on side of SCA1(as *Figure 11*) which are designed for coin channel setting, there are 32 channels memory available (16 channels at once), users can select coin accepting or rejecting by setup the DIP switches (as *Figure 11-1*).

For DIP switch setting which fits your need, please refer to the sticker next to DIP switches on SCA1 (as *Figure 11-2*).

Figure 11-2

SCA1 (ccTalk|Parallel)

Switching block S1 ON ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Note: 1. S1- 9→OFF (ccTalk) · S1- 9→ON (Parallel)
2. S1-10→OFF (bank 0) · S1-10→ON (bank 1)

Switch	OFF	ON
S1-1 Coin Channel 1 to S1-8 Coin Channel 8	free	Inhibited
	free	inhibited

Switching block S2 ON ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Switch	OFF	ON
S2-1 Coin Channel 9 to S2-8 Coin Channel 16	free	Inhibited
	free	inhibited

Mode	SW9	SW10	Mode	SW9	SW10
ICT Mode	OFF	OFF	Mode 1	ON	OFF
User Define	ON	ON	Mode 2	OFF	ON

◆ ccTalk for Sorter Setup.

Part Number : H6146C-R

Note: SW9 & SW10 are parameter setups for ccTalk.

Figure 11

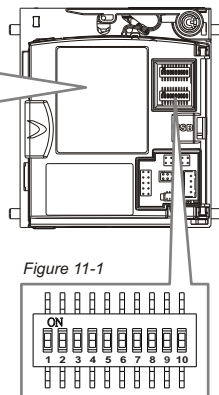


Figure 11-1

6. Maintenance

To make sure SCA1 coin acceptor always works smoothly, please clean the internal sensors regularly.

To clean the internal sensors:

1. Open upper base cover plate, hold it open, and then use a soft, dry cloth, or towel to clean sensors (as *Figure 12*).

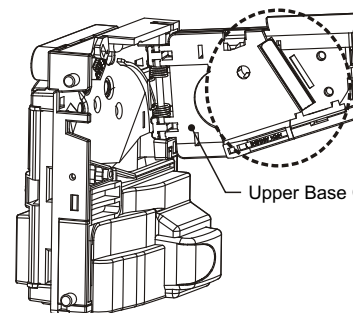


Figure 12

Upper Base Cover Plate

2. Release the mounting clip and remove the Solenoid Valve Mount, and then clean the internal parts with a soft, dry cloth, or towel (as *Figure 13*).

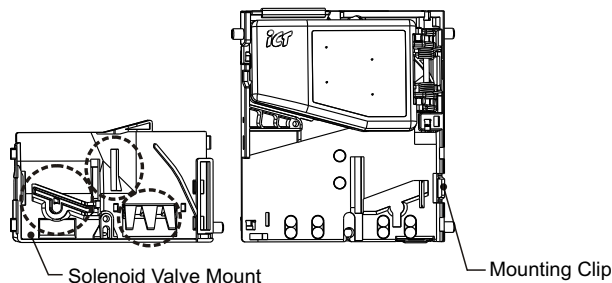


Figure 13

Maintenance Notice
(Any improper maintenance will result in invalid warranty.)

Recommended	Mild, non-abrasive, soap water.
DO NOT USE	Organic solvent, Alcohol, Volatility liquid.

7. Troubleshooting

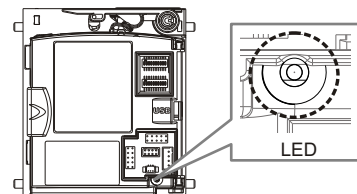


Figure 14

Table 1

LED Flashes			Status	Corrective Actions
Green	Orange	Red		
N/A	N/A	N/A	Power ON	N/A
N/A	ON	N/A	Inhibit	
N/A	Flashes	N/A	I/O Test Mode	
1	N/A	1	Coil 1 Error	Call ICT or agents for technical support.
2	N/A	1	Coil 2 Error	
3	N/A	1	Coil 3 Error	
N/A	N/A	2	A Stringing attempt has been detected.	Inspect for foreign objects in coin path and clean it.
1	N/A	2	Pierce 1 Sensor Error	
2	N/A	2	Pierce 2 Sensor Error	
1	N/A	3	Input Sensor Error	
2	N/A	3	Return Sensor Error	
1	N/A	4	Drop IN 1R Error	
2	N/A	4	Drop IN 2R Error	
3	N/A	4	Drop IN 1L Error	
4	N/A	4	Drop IN 2L Error	
N/A	N/A	5	Program Error	Call ICT or agents for technical support.



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

8. Coin Sorter for SCA1 Flow Type (Optional)

The coin sorter is designed for combining with SCA1 coin acceptor. It can sort up for four different coins at the same time while accepting multiple coins from SCA1.

For purchasing Coin Sorter for SCA1, please contact ICT.

Figure 15

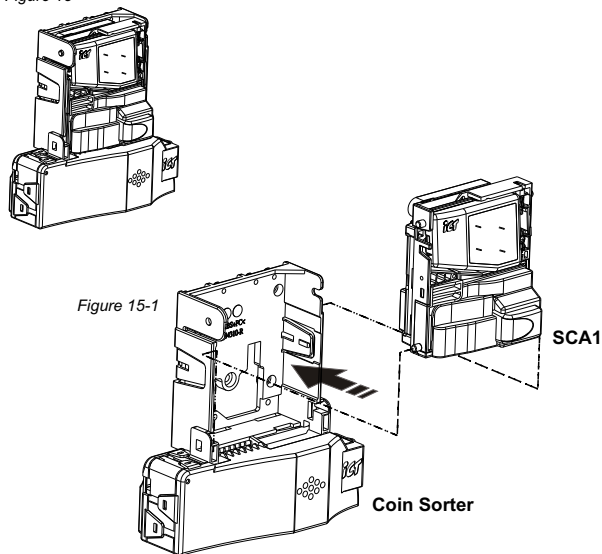


Figure 15-1

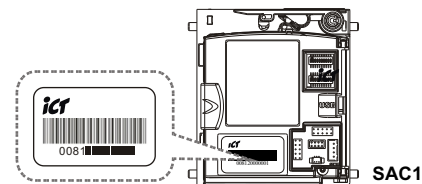


Please refer to "Coin Sorter for SCA1" Installation Guide for more information.

◆ ccTalk Information

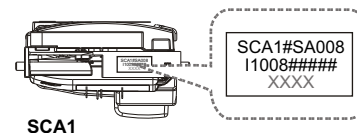
- Manufacturer ID: ICT
- Equipment Category ID: Coin Acceptor
- Product Code: SCA1
- Serial Number: According to last 8 digits of production serial number (Default: 12345678).

Figure.16



- Software Revision: According to the software revision number.
Ex. SCA1#SA008I1008#####

Figure.17



Please contact ICT for more information.



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