ICT

Bill Acceptor

A6 / V6

Installation Guide *Series*

International Currency Technologies Corp.

Use of Materials Limitations

Contents

1. Introduction

1-1. Overview

A6/V6 Series is a bill acceptor which features not only high-security module with bill box but also outstanding recognition, acceptance rate up to 96% or even greater.

1-2. Features

- Four way bill insertion acceptance.
- Auto-calibrating.
- Numerous interfaces available.
- Easily Install & Maintain.

2. Specifications

General

Acceptance Rate	96 % or greater
Bill Insertion	Four way acceptable
Transaction Speed	Approx. 3 seconds to stack
Interface	**A6-** STD Pulse, 5V ENABLE, ICT Protocol, Single price. **V6-** MDB

Electrical

Power Source	**A6-** 12V DC(11.4~12.6V DC) 117V AC(105.3~128.7V AC) **V6-** 24V/34V DC(20V~42.5V DC)

Power Consumption	**A6-** 12V DC	Standby : 0.3A, 4W Operation: 0.9A, 11W Maximum: 2.6A, 32W
	117V AC	Standby : 0.06A, 7W Operation: 0.112A, 14W Maximum: 0.4A, 47W
	V6- 24V/34V DC	Standby : 0.15A, 6W Operation: 0.4A, 14W Maximum: 1.35A, 46W
Operation Environment	Operation Temperature: 0°C~55°C Storage Temperature : -30°C~70°C Humidity: 30%~85% RH(no condensation)	

Mechanical

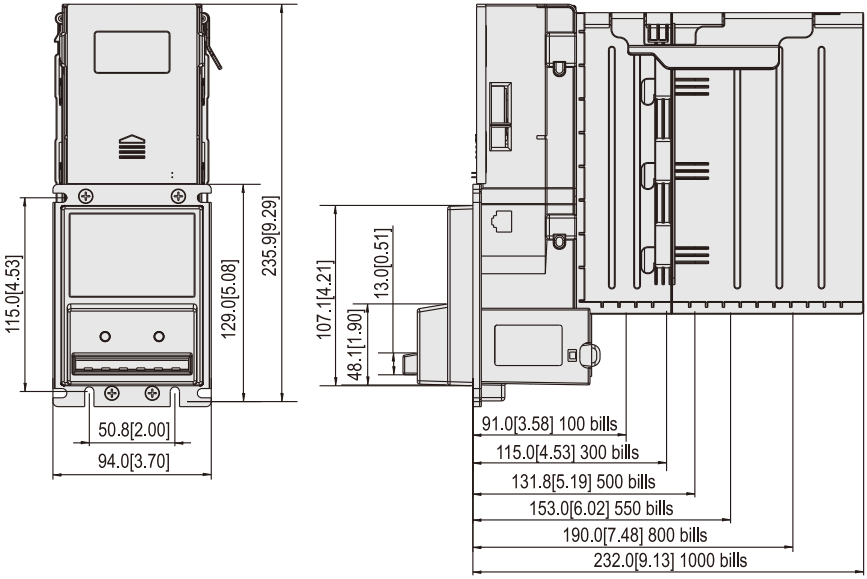
Bill Capacity	Approx. 100 bills(40~ 140) 300 bills(200~ 300) 500 bills(300~ 500) 550 bills(440~ 640) 800 bills(750~ 850) 1000 bills(1000~1140)
Bill Width Accepted	60~67 mm
Weight	Approx. 2kg(shipping)
Installation	Indoor

3. Packing List

Main	Bill Acceptor
Accessory	Harnesses: Refer to 5-1 A6/V6 Installation Guide A6/V6 Switches Setting Guide

4. Dimension

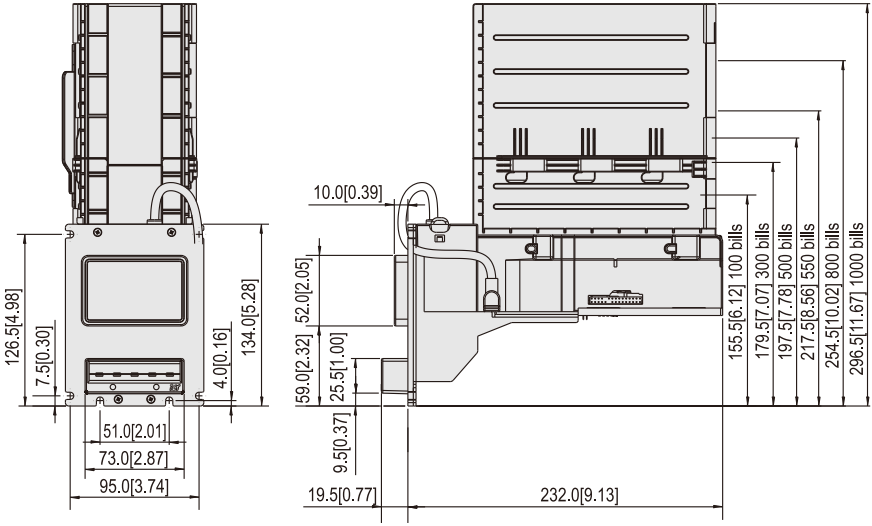
Vertical



Unit : mm [inch]

4 FIG. 01

Horizontal



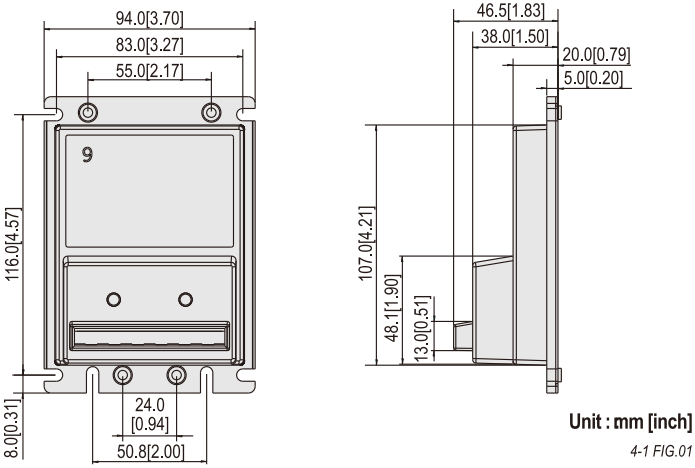
Unit : mm [inch]

4 FIG. 02

4-1. Bezel Styles

Standard bezel

Part Number: 3RMB-FAC01001

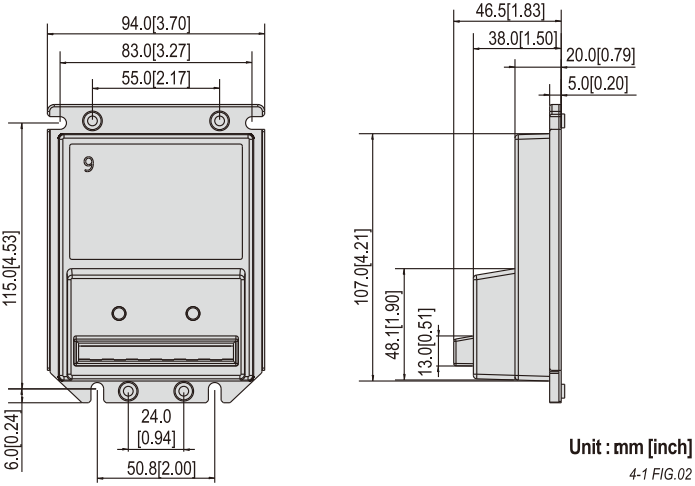


Unit : mm [inch]

4-1 FIG.01

Fitted bezel

Part Number: 3RMB-FAC02000

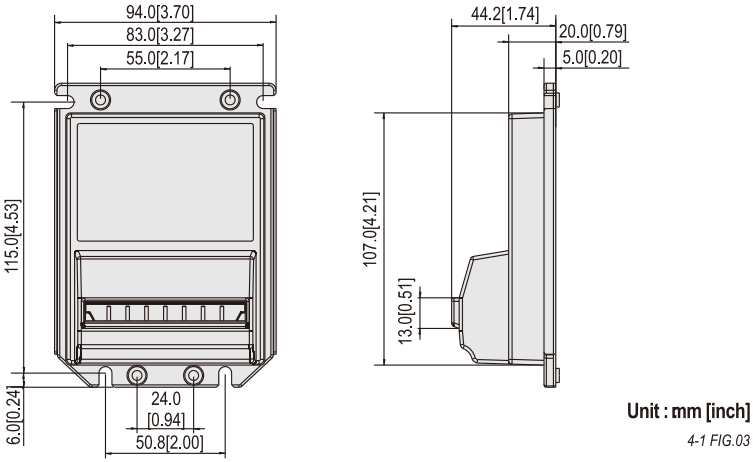


Unit : mm [inch]

4-1 FIG.02

Anti-coin Bezel

Part Number: 3RMB-FAC16002

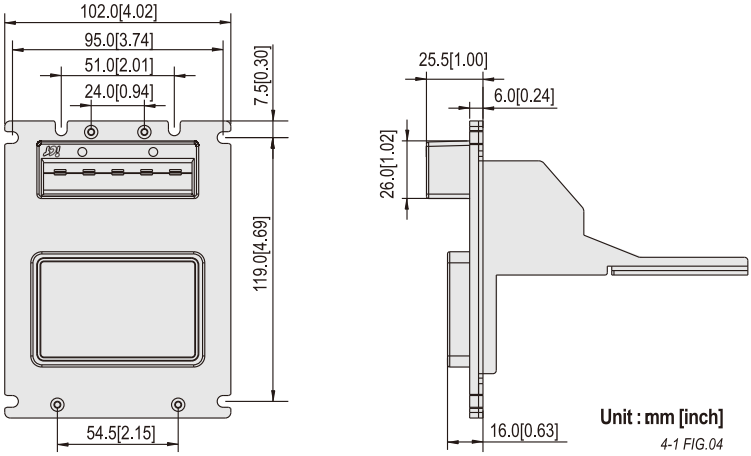


Unit : mm [inch]

4-1 FIG.03

Horizontal Bezel

Part Number: 3RMB-FAC10000

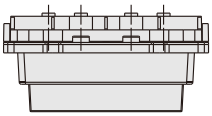


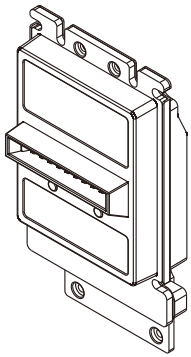
Unit : mm [inch]

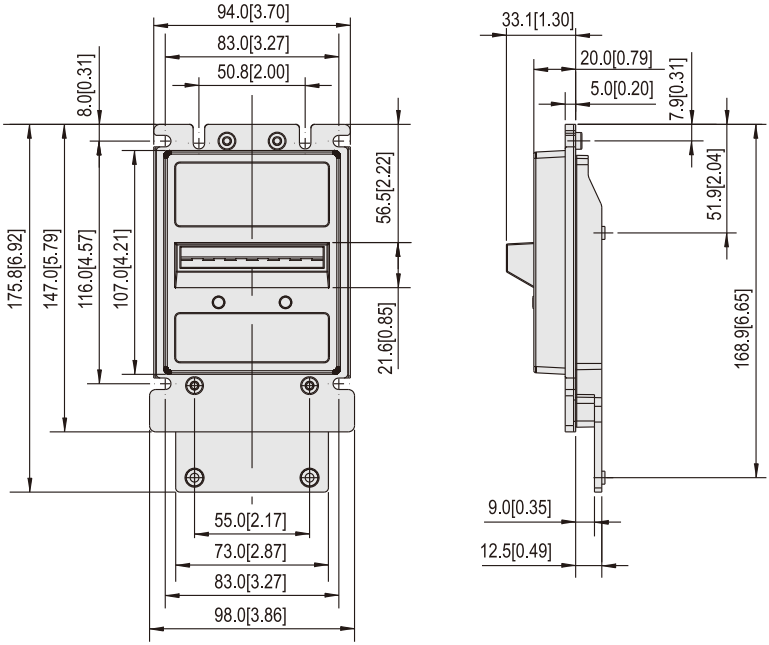
4-1 FIG.04

For VFM bezel

Part Number: 3RMB-FAC23000







Unit : mm [inch]

4-1 FIG.05

5. Installation

5-1. Harness Application

5-1 TABLE 01

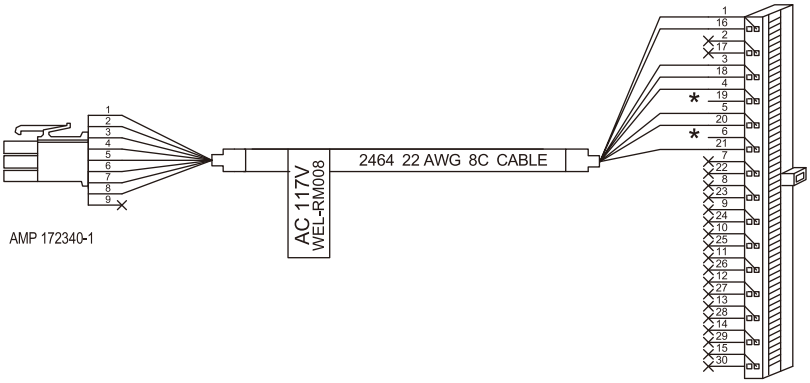
Model	Interface	Used Voltage	Usage	Harness	Page
A6	STD Pulse	117V AC	Power & *Data Comm.	WEL-RM008	10
			Extension Wire	WEL-RM012	11
		12V DC	Power & *Data Comm.	WEL-RM007	12
			Extension Wire	CU-R961-1	13
	5V Enable	117V AC	Power & *Data Comm.	WEL-RM017	14
			Extension Wire	WEL-RM018	15
	ICT Protocol (RS232)	12V DC	Power	WEL-RM007	12
			Extension Wire	CU-R961-1	13
			*Data Comm.	WEL-RV706-1 or 2-BA-RV706	16
		117V AC	Power	WEL-RM008	10
			Extension Wire	WEL-RM012	11
			*Data Comm.	WEL-RV706-1 or 2-BA-RV706	16
	Single Price	117V AC	Power & *Data Comm.	WEL-RM031	18
V6	MDB	24V/34V DC	Power & *Data Comm.	WEL-RM006	17

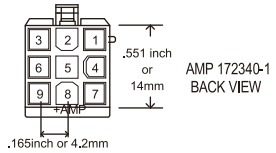
*Data Comm. : Data Communication.

5-1 FIG.01

Interface	Used Voltage	Usage
STD Pulse	117V AC	Power & *Data Comm.
ICT Protocol (RS232)	117V AC	Power

WEL-RM008





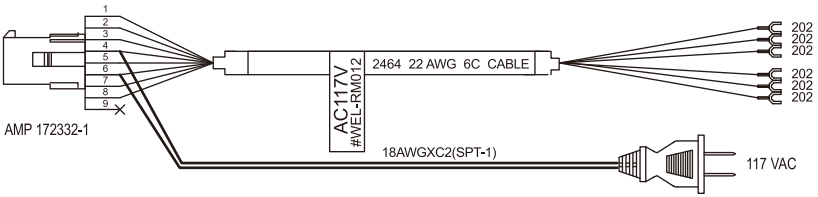
PIN 1- YELLOW.....NEUTRAL INHIBIT
PIN 2- RED.....NEUTRAL ENABLE
PIN 3- BROWN.....HOT ENABLE
PIN 4- BLACK.....117VAC HOT(Power)
PIN 5- GREEN.....Earth-Ground
PIN 6- WHITE.....117VAC NEUTRAL(Power)
PIN 7- BLUE.....CREDIT_RELAY(N.O.)
PIN 8- PURPLE.....CREDIT_RELAY(Common)

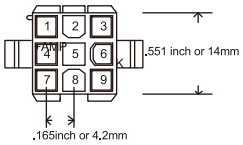
PIN 1- PURPLE.....CREDIT_RELAY(Common)
PIN 3- RED.....NEUTRAL ENABLE
PIN 4- WHITE.....117VAC NEUTRAL(Power)
PIN 5- YELLOW.....NEUTRAL INHIBIT
PIN 16- BLUE.....CREDIT_RELAY(N.O.)
PIN 18- BROWN.....HOT ENABLE
PIN 20- BLACK.....117VAC HOT (Power)
PIN 21- GREEN.....EARTH GROUND

5-1 FIG.02

Interface	Used Voltage	Usage
STD Pulse	117V AC	Extension Wire for WEL-RM008
ICT Protocol (RS232)	117V AC	Extension Wire for WEL-RM008

WEL-RM012





AMP 172332-1 BACK VIEW

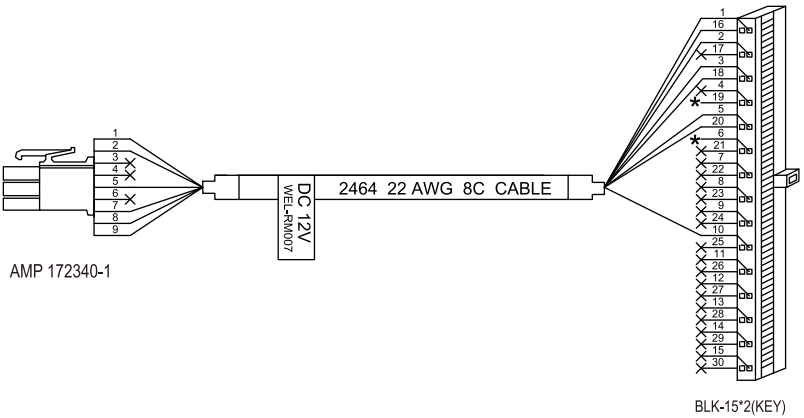
PIN 1- YELLOW.....NEUTRAL INHIBIT
PIN 2- RED.....NEUTRAL ENABLE
PIN 3- ORANGE.....HOT ENABLE
PIN 4- BLACK.....17VAC HOT (Power)
PIN 5- GREEN.....Earth - Ground
PIN 6- BLACK.....117VAC NEUTRAL (Power)
PIN 7- BLUE.....CREDIT_RELAY (N.O.)
PIN 8- PURPLE..CREDIT_RELAY (Common)
PIN 9- Reserved

YELLOW.....NEUARAL INHIBIT
RED.....NEUTRAL ENABLE
ORANGE.....HOT ENABLE
GREEN.....Earth - Ground
BLUE.....CREDIT_RELAY (N.O.)
PURPLE.....CREDIT_RELAY (Common)

5-1 FIG. 03

Interface	Used Voltage	Usage
STD Pulse	12V DC	Power & *Data Comm.
ICT Protocol (RS232)	12V DC	Power

WEL-RM007



AMP 172340-1

BLK-15*2(KEY)

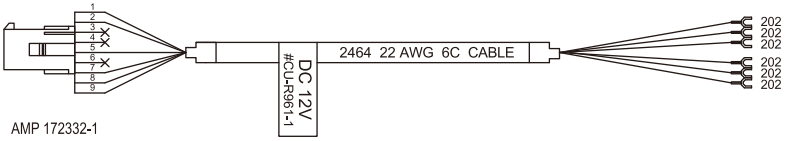
PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 3- RESERVED
PIN 4- RESERVED
PIN 5- RED.....12V DC (POWER)
PIN 5 DOTTED- BLACK.....12V DC (POWER)
PIN 6- RESERVED
PIN 7- BLUE.....CREDIT_RELAY (N.O.)
PIN 8- PURPLE.....CREDIT_RELAY (COMMON)
PIN 9- BROWN.....GND (POWER)
PIN 9 DOTTED- WHITE.....GND (POWER)

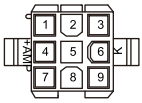
PIN 1- PURPLE.....CREDIT_RELAY (COMMON)
PIN 2- RED.....12VDC (POWER)
PIN 3- WHITE.....ENABLE-
PIN 5- YELLOW.....INHIBIT+
PIN 10- BROWN.....GND (POWER)
PIN 16- BLUE.....CREDIT_RELAY (N.O.)
PIN 18- BLACK.....ENABLE+
PIN 20- GREEN.....INHIBIT-

5-1 FIG. 04

Interface	Used Voltage	Usage
STD Pulse	12V DC	Extension Wire for WEL-RM007
ICT Protocol (RS232)	12V DC	Extension Wire for WEL-RM007

CU-R961-1



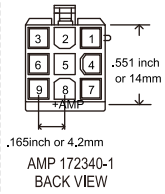


PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 5- RED.....+12VDC(POWER-IN)
PIN 7- BLUE.....CREOIT-RELAY-NO
PIN 8- PURPLE.....CREDIT-RELAY-COM
PIN 9- ORANGE.....GND(POWER-IN)

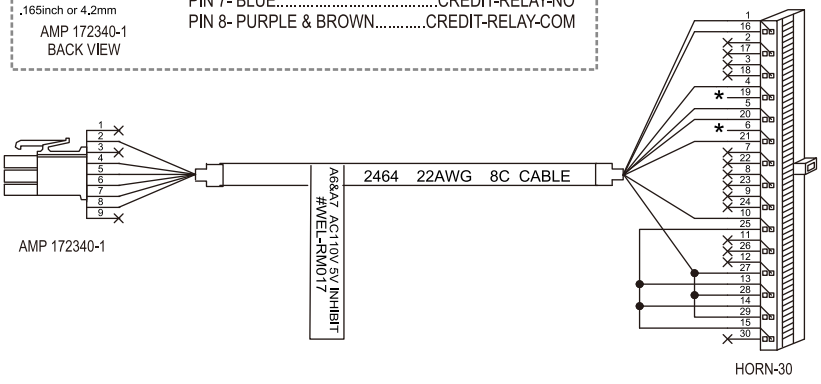
5-1 FIG. 05

Interface	Used Voltage	Usage
5V Enable	117V AC	Power & *Data Comm.

WEL-RM017



PIN 2- RED.....I-ENABLE-L
PIN 4- BLACK.....115VAC-HOT
PIN 5- GREEN.....EARTH-GROUND
PIN 6- WHITE & YELLOW.....115VAC-NEUTRAL
PIN 7- BLUE.....CREDIT-RELAY-NO
PIN 8- PURPLE & BROWN.....CREDIT-RELAY-COM

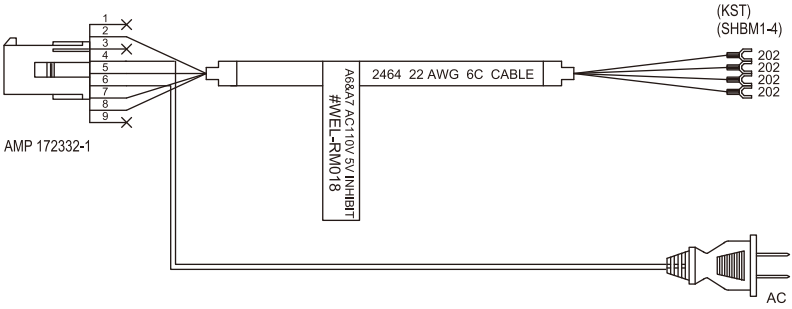


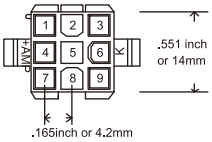
PIN 1- PURPLE.....CREDIT-RELAY-COM
PIN 4- WHITE.....115VAC-NEUTRAL(POWER IN)
PIN 5- YELLOW.....NEUTRAL-INHIBIT
PIN 10- BROWN.....GND
PIN 16- BLUE.....CREDIT-RELAY-NO
PIN 20- BLACK.....115VAC-HOT(POWER IN)
PIN 21- GREEN.....EARTH-GROUND
PIN 27.& 28. & 29- RED.....I-ENABLE-L
PIN 13. & 14. & 15. & 25- BLACK.....I-ENABLE-H

5-1 FIG. 06

Interface	Used Voltage	Usage
5V Enable	117V AC	Extension Wire for WEL-RM017

WEL-RM018





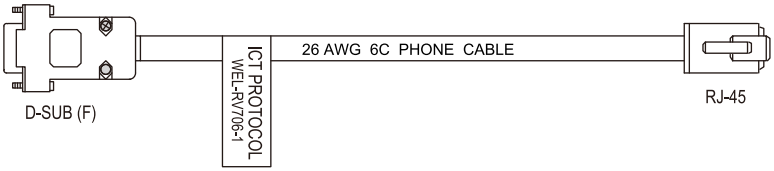
AMP 172332-1 BACK VIEW

PIN 2- RED.....I-ENABLE-L
PIN 4- BLACK.....115VAC-HOT(POWER-IN)
PIN 5- GREEN.....EARTH-GROUND
PIN 6- BLACK.....115VAC-NEUTRAL(POWER-IN)
PIN 7- BLUE.....CREDIT-RELAY-NO
PIN 8- PURPLE.....CREDIT-RELAY-COM

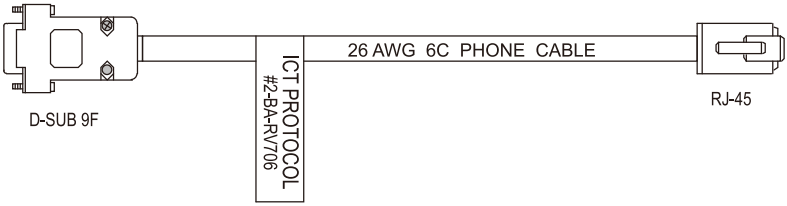
5-1 FIG. 07

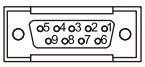
Interface	Used Voltage	Usage
ICT Protocol (RS232)	12V DC	*Data Comm.
	117V AC	*Data Comm.

WEL-RV706-1



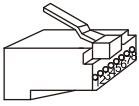
2-BA-RV706





D-SUB 9F TOP VIEW

PIN 1- RESERVED
PIN 2- RXD
PIN 3- TXD
PIN 4- RESERVED
PIN 5- GND
PIN 6- RESERVED
PIN 7- RESERVED
PIN 8- RESERVED
PIN 9- RESERVED



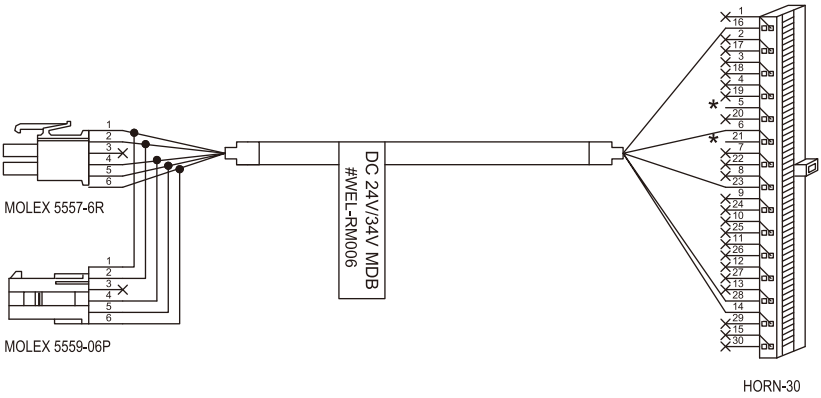
RJ-45 VIEW

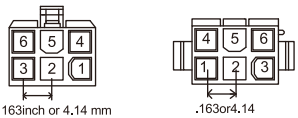
PIN 1- BLUE.....GND
PIN 2- YELLOW.....TX22
PIN 3- GREEN.....RX22
PIN 4- X.....RESERVED
PIN 5- X.....RESERVED
PIN 6- RED.....VCC
PIN 7- BLACK.....RX11
PIN 8- WHITE.....TX11

5-1 FIG. 08

Interface	Used Voltage	Usage
MDB	24V/34V DC	Power & *Data Comm.

WEL-RM006





MOLEX 5557-6R
BACK VIEW

MOLEX 5559-06P
BACK VIEW

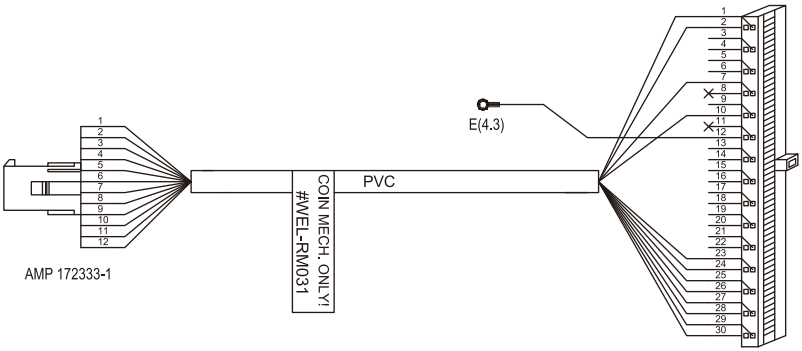
PIN 1- BLUE.....24V/34VDC
PIN 2- YELLOW.....POWER RETURN
PIN 3- N/C
PIN 4- ORANGE.....MDB_MASTER_RXD
PIN 5- RED.....MDB_MASTER_TXD
PIN 6- GREEN.....MDB GROUND

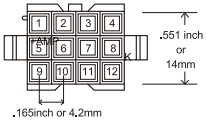
PIN 6- ORANGE.....MDB_MASTER_RXD
PIN 14- RED.....MDB_MASTER_TXD
PIN 16- YELLOW.....POWER RETURN
PIN 23- BLUE.....24V/34VDC
PIN 28- GREEN.....MDB GROUND

5-1 FIG. 09

Interface	Used Voltage	Usage
Single price	117V AC	Power & *Data Comm.

WEL-RM031





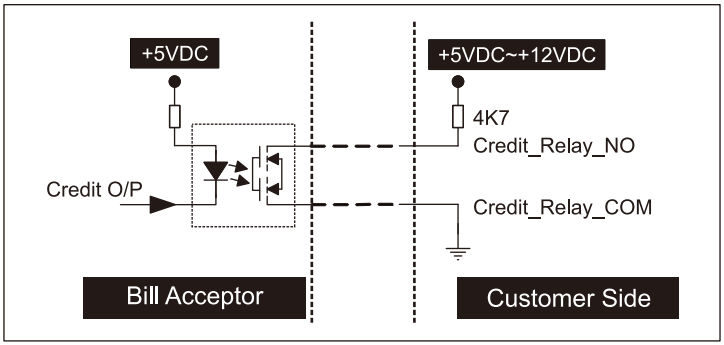
PIN 1- BLACK(20AWG).....115VAC-HOT
PIN 2- RED(20AWG).....115VAC-NEUTRAL
PIN 3- BLUE.....RESERVED
PIN 4- GREEN.....CREDIT-RELAY-NO
PIN 5- WHITE.....CREDIT-RELAY-COM
PIN 6- BLACK.....RESERVED
PIN 7- YELLOW.....1-ENABLE-H
PIN 8- PURPLE.....1-ENABLE-L
PIN 9- BROWN.....RESERVED
PIN 10- ORANGE.....RESERVED
PIN 11- GREY.....RESERVED
PIN 12- RED.....RESERVED

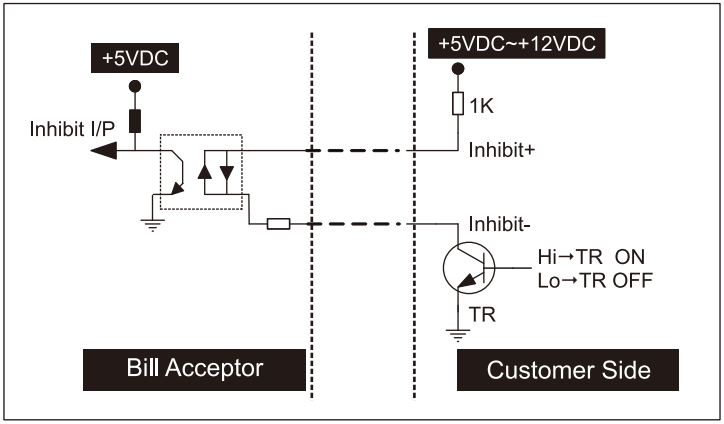
PIN 1- WHITE.....CREDIT-RELAY-COM
PIN 2- GREEN.....CREDIT-RELAY-NO
PIN 7- RED(20AWG).....115VAC-NEUTRAL
PIN 10- BLACK(20AWG).....115VAC-HOT
PIN 12- YELLOW/
GREEN(20AWG).....EARTHGND
PIN 23- BROWN.....RESERVED
PIN 24- PURPLE.....1-ENABLE-L
PIN 25- BLUE.....RESERVED
PIN 26- GREY.....RESERVED
PIN 27- ORANGE.....RESERVED
PIN 28- RED.....RESERVED
PIN 29- YELLOW.....1-ENABLE-H
PIN 30- BLACK.....RESERVED

5-1-1. I/O Circuit

Pulse Interface

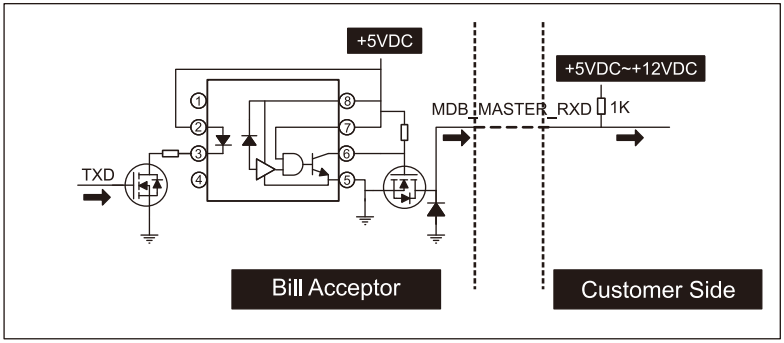
5-1-1 FIG. 01

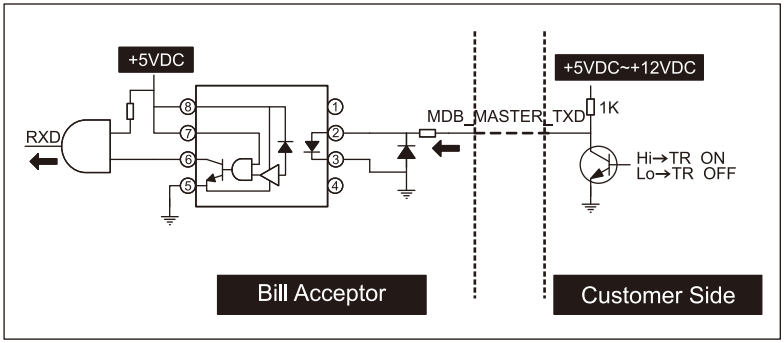




MDB Interface

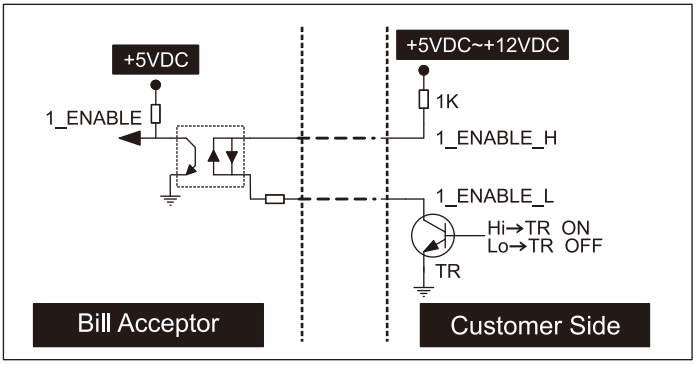
5-1-1 FIG. 02





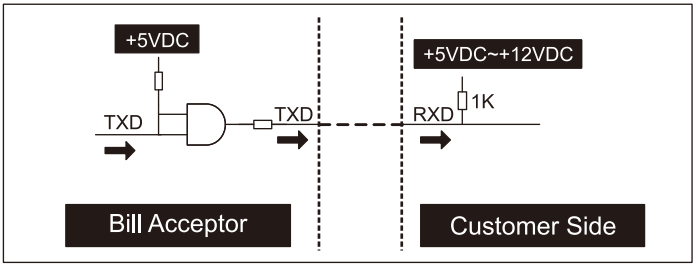
5V Enable Interface

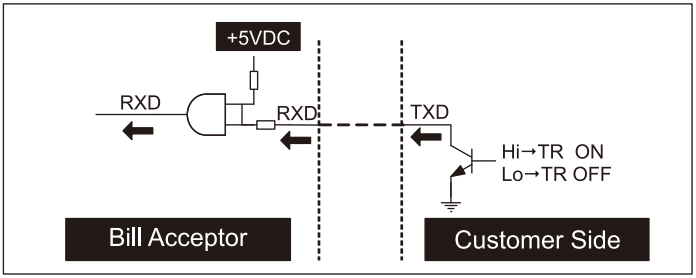
5-1-1 FIG. 03



ICT-Protocol Interface

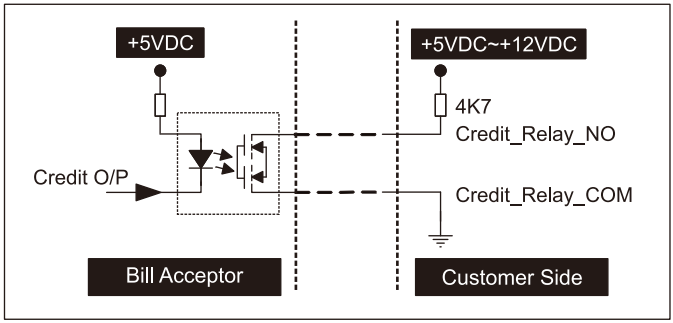
5-1-1 FIG. 04





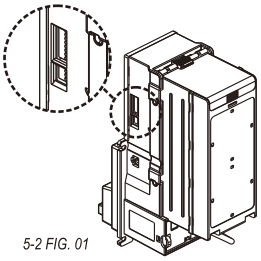
Single Price Interface.

5-1-1 FIG.05

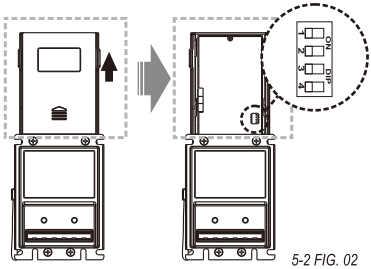


5-2. DIP Switch Setting

There are two serial DIP switches which are set on the side of A6/V6 series *(as FIG.01)*. According to different currencies which are used by users, DIP switch settings could be varied to fit users' needs. There is also a serial DIP switch on the base of the unit for inside interface settings *(as FIG.02)*. Please refer to "A6/V6 series DIP Switch Setting Guide" in the package for more details.



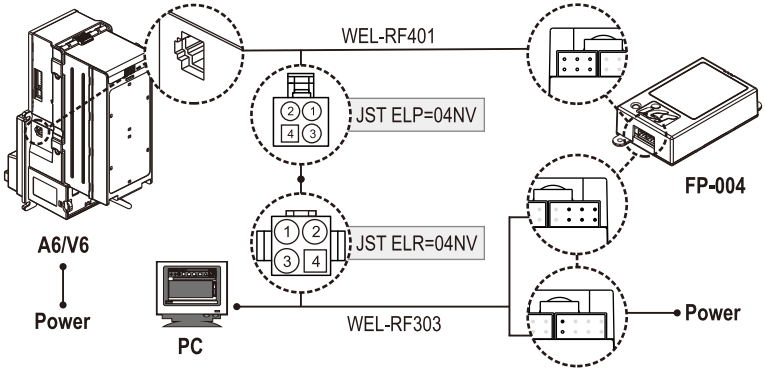
5-2 FIG. 01



5-2 FIG. 02

5-3. Software Download and Upgrade

To download and upgrade the software to A6/V6 Series, the programmer (FP-004) is needed. Please contact ICT to purchase FP-004 and refer to FP-004 user guide for software download and upgrade information.



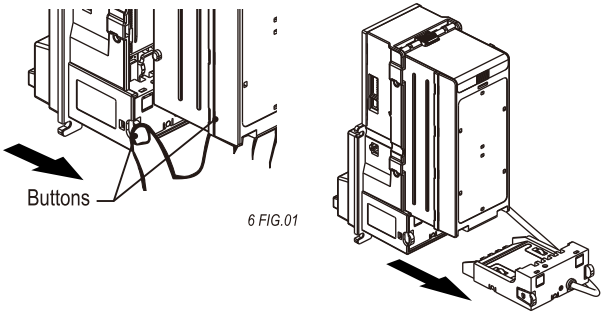
Power must be applied to Bill Acceptor **after** connecting.

6. Maintenance

To make sure the bill acceptor always works smoothly, please clean the internal parts every two weeks to every two months.

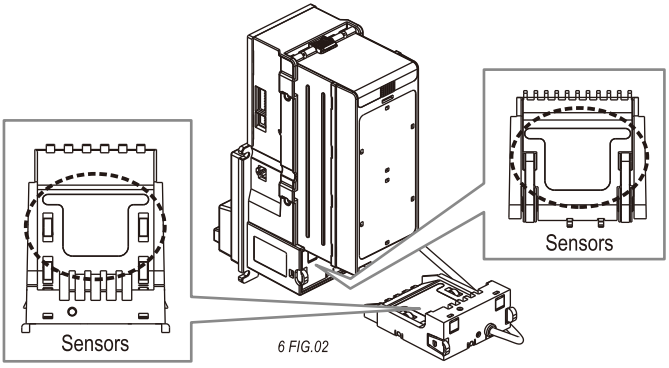
To clean the internal parts:

1. Press the buttons on the sides of bill path unit and pull the unit out.



6 FIG.01

2. Use a soft, dry cloth or towel to clean the bill path and sensors.



6 FIG.02

Maintenance Notice

(Any improper maintenance will invalidate the warranty.)

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

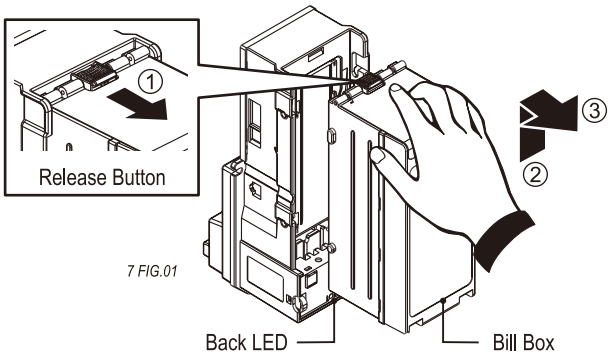
7. Troubleshooting

7 TABLE 01

LED	Status	Corrective Actions
Green	White Card Calibration.	Please calibrate with ICT white calibration card.

7 TABLE 02

LED Flashes (Green)	Status	Corrective Actions
1	Bill jammed.	Remove the bill box by sliding the top button and the bill path unit (*as 7 FIG.01)*, and then remove the jammed bill.
2	Disable	Inspect for right DIP switch setting.
3	Recognition sensor error.	Inspect for foreign objects on sensor or bill path and clean.
3+2	Hook sensor error.	Inspect for foreign objects on security hook and clean.
5	Bill box has been removed.	Replace the bill box.
6	Stacker error or stacker full.	Empty the bill box.
7	Motor error.	Inspect for foreign objects on bill path and clean.



7 FIG.01

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

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