



Bill Acceptor

PA7/PV7

Installation Guide



International Currency Technologies Corp.

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1. Introduction

1-1. Overview

PA7/PV7 is a bill acceptor which features as high-security with acceptance rate up to 96% or even greater.

1-2. Features

- Four-way bill insertion acceptance.
- Auto-calibrating.
- Easy Maintenance.

2. Specifications

General

Acceptance Rate 96% or greater
Note: The acceptance rate excludes notes that are dirty, wet, broken or wrinkled.

Interface **PA7/PA7-U:** Pulse, ICT Protocol, NISR, 5V ENABLE, single price-**PA7-U**.
PV7: MDB, Pulse, ICT Protocol
*USB is only compatible with model PA7-UXXXX-XXXX.

Transaction Speed Approx. 3 seconds to stack

Bill Insertion Four-way acceptable

 **Installation: Indoor use only!!**

Electrical

Power Source	12V DC(10.8~13.2V DC) 117V AC(105.3~128.7V AC)
Power Consumption	12V DC- Standby: 0.28A, 3.4W Operation: 0.9A, 11W Maximum: 2.5A, 30W 117V AC- Standby: 0.045A, 5W Operation: 0.1A, 11W Maximum: 0.2A, 22W
Operation Environment	Operation Temperature: 0°C~55°C Storage Temperature: -30°C~70°C Humidity: 30%~85% RH (no condensation)

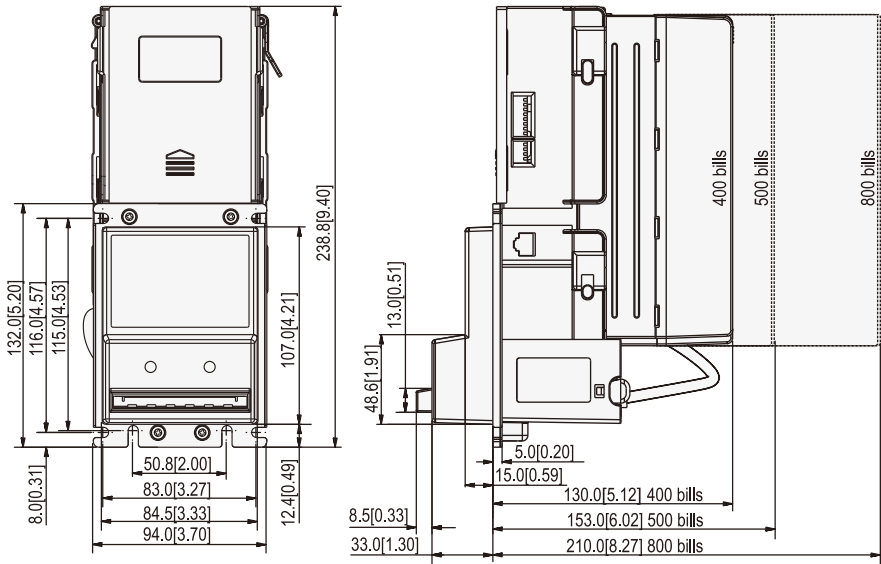
Mechanical

Bill Capacity	Approx. 400 bills(300~400) 500 bills(400~500) 800 bills(700~800)
Outline Dimension	Refer to page.4
Weight	Approx. 1.3kg

3. Packing List

Main	Bill Acceptor
Accessory	Harness: Refer to 5-1 PA7/PV7 Installation Guide PA7/PV7 DIP Switch Setting Guide

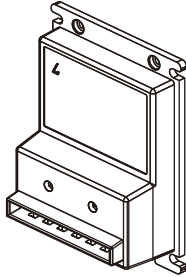
4. Dimension



Unit:mm[inch]

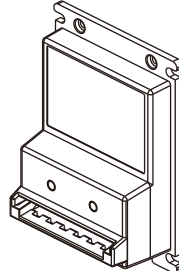
4 FIG.01

4-1. Bezel Style



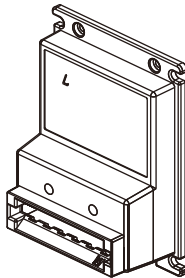
4-1 FIG.01

Compact Bezel
Part Number: A2209A00-R



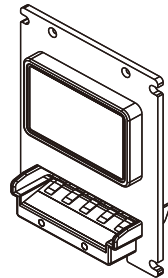
4-1 FIG.02

Bezel (Step Style)
Part Number: A3025000-R



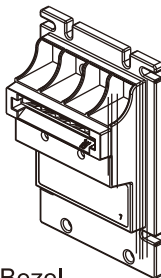
4-1 FIG.03

Two Sided Bezel
Part Number: A2422B00-R



4-1 FIG.04

Horizontal Stacker Bezel
Part Number: A24260-R



4-1 FIG.05

TOB Bezel
Part Number: A2582000-R

5. Installation

5-1. Harness Application

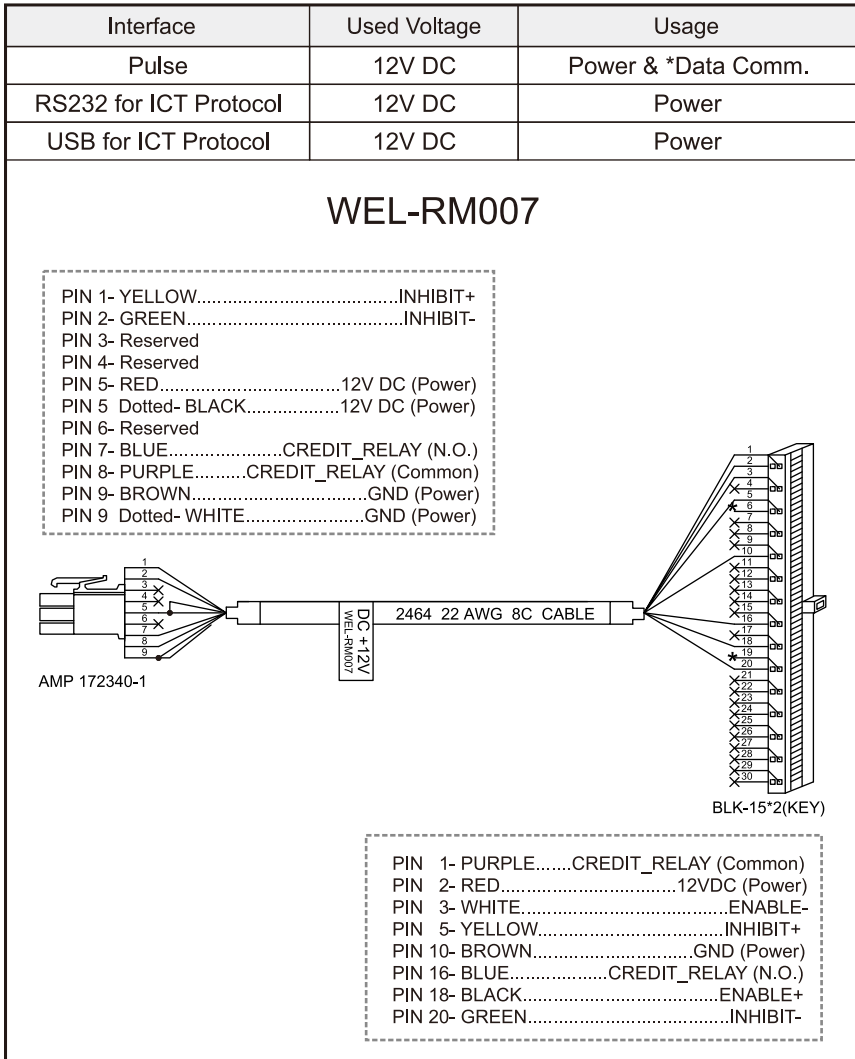
5-1 TABLE 01

Model	Interface		Used Voltage	Usage	Harness	Page
PA7/ PA7-U	Pulse		12VDC	Power & *Data Com.	WEL-RM007	7
				Extension Wire	CU-R961-1	8
			117VAC	Power & *Data Com.	WEL-RM008	9
				Extension Wire	WEL-RM012	10
	Pulse + 5V Enable		117VAC	Power & *Data Com.	WEL-RM017	11
				Extension Wire	WEL-RM018	12
	NISR		117VAC	Power & *Data Com.	WEL-RM023	13
	ICT Protocol	RS232	12V DC	Power	WEL-RM007	7
			117V AC	Power	WEL-RM008	9
			+5V to ±12V	*Data Com.	WEL-RV706-1	15
		**USB	12V DC	Power	WEL-RM007	7
			117V AC	Power	WEL-RM008	9
			5V DC	*Data Com.	WEL-RU1180 (Optional)	14
PA7-U	Single Price		117V AC	Power & *Data Com.	WEL-RM031	20
PV7	Pulse		12V DC	Power & *Data Com.	WEL-RV701	16
				Extension Wire	CU-R961-1	8
			24V AC	Power & *Data Com.	WEL-RV703	17
				Extension Wire	WEL-RV702	18
	MDB		34V DC	Power & *Data com.	WEL-RM006	19
	ICT Protocol (RS232)		12V DC	Power	WEL-RV701	16
			24V AC	Power	WEL-RV703	17
			34V DC	Power	WEL-RM006	19
+5V to ±12V			*Data Com.	WEL-RV706-1	15	

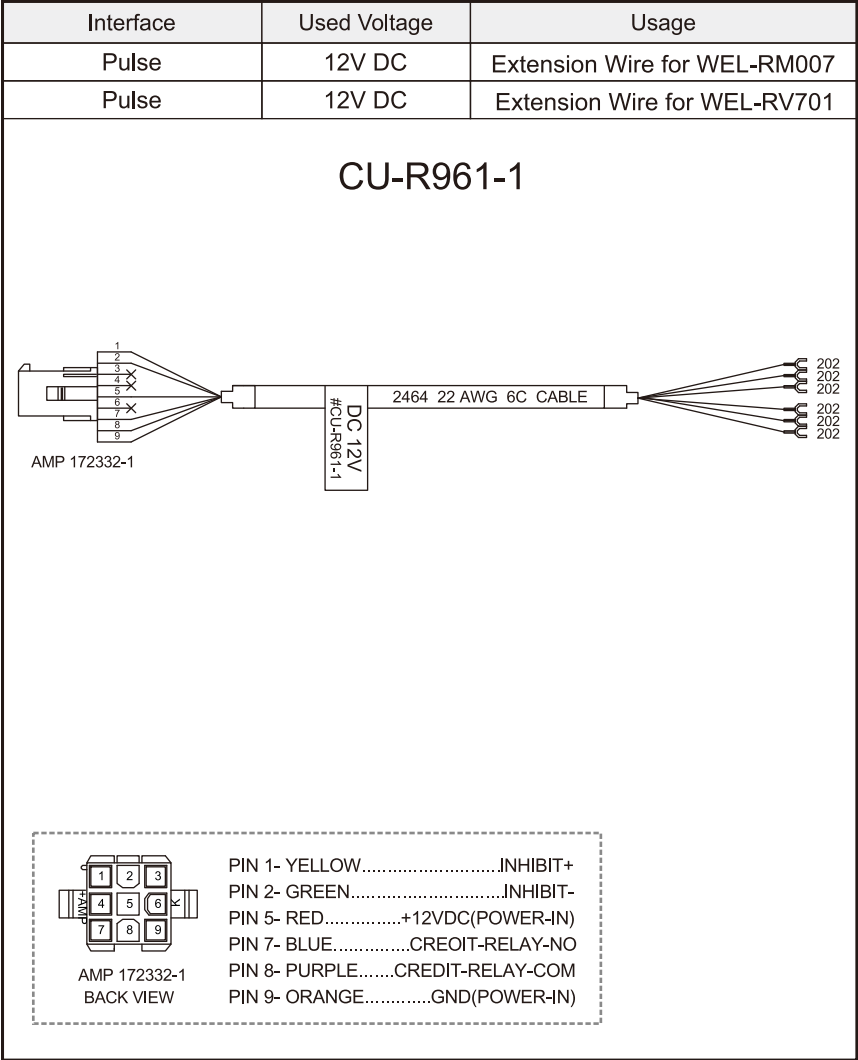
*Data Com. : Data Communication.

**USB is only compatible with model PA7-UXXXX-XXXX.

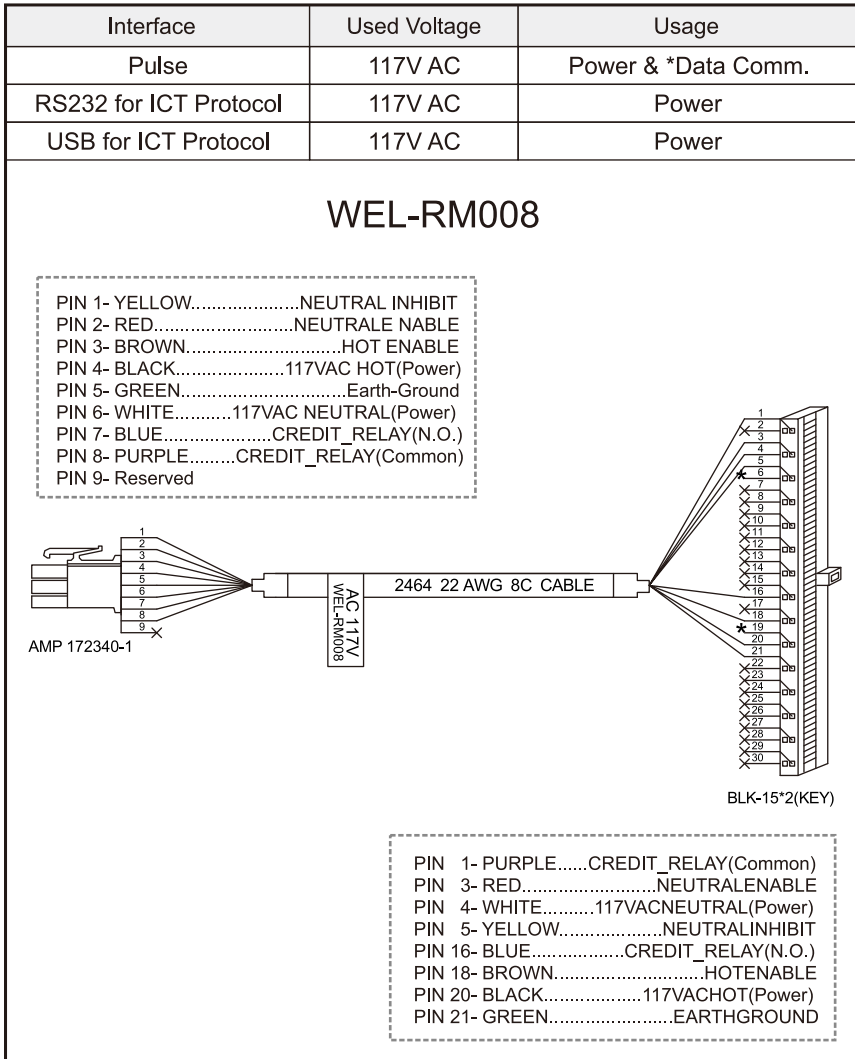
5-1 FIG.01



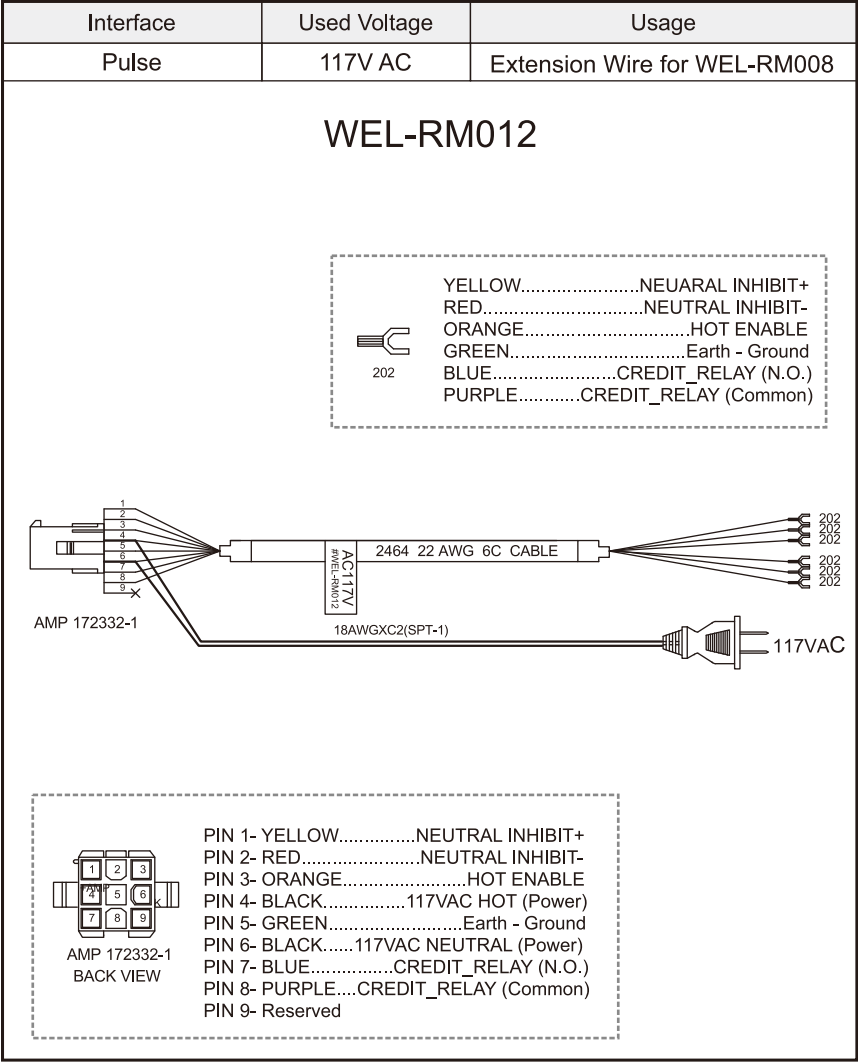
5-1 FIG.02



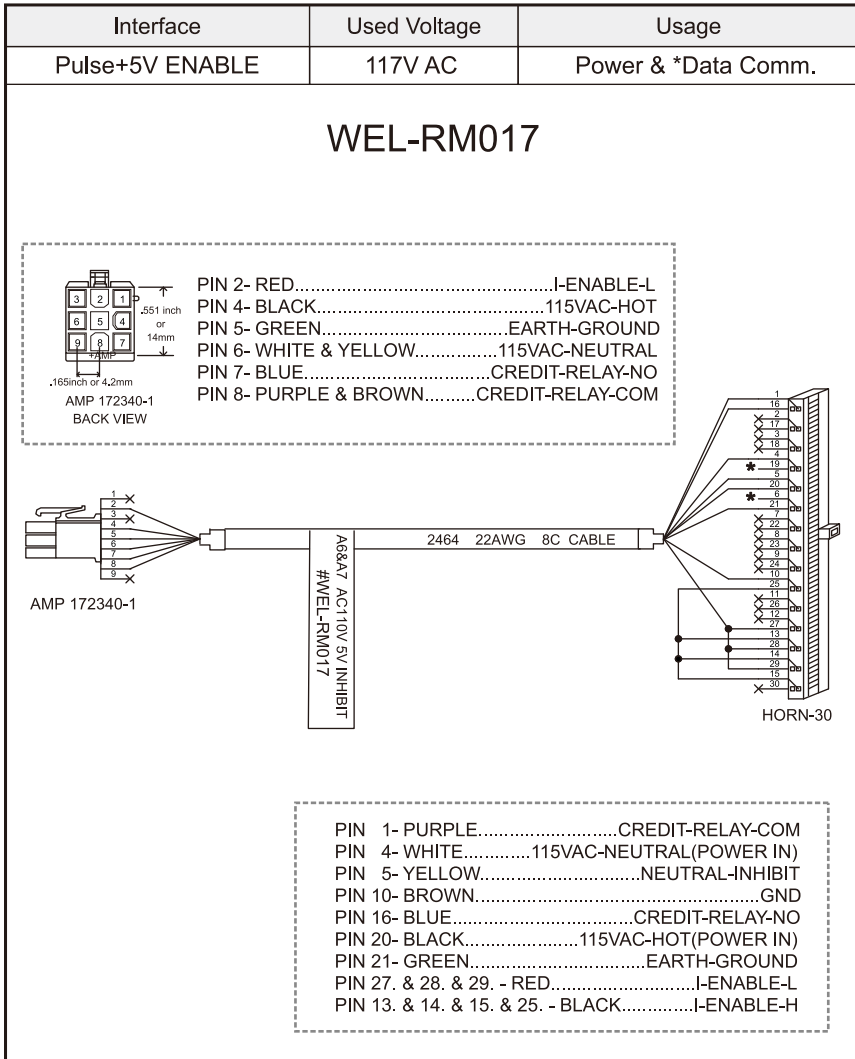
5-1 FIG.03



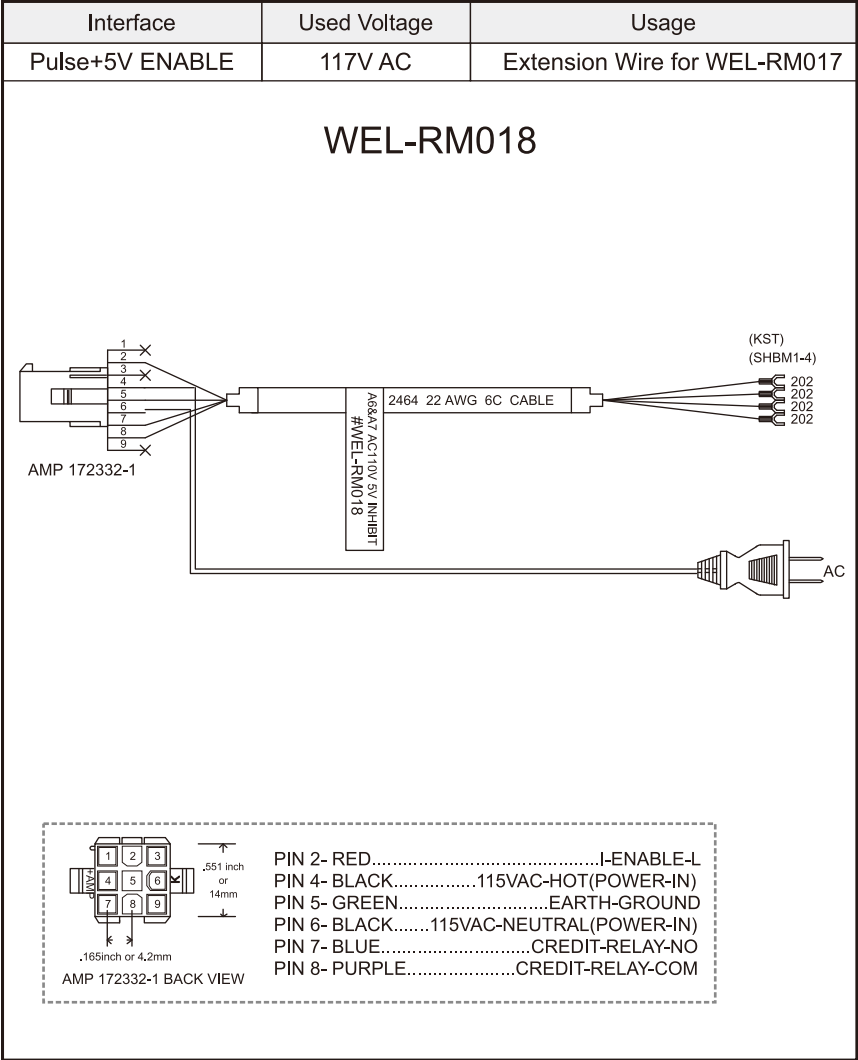
5-1 FIG.04



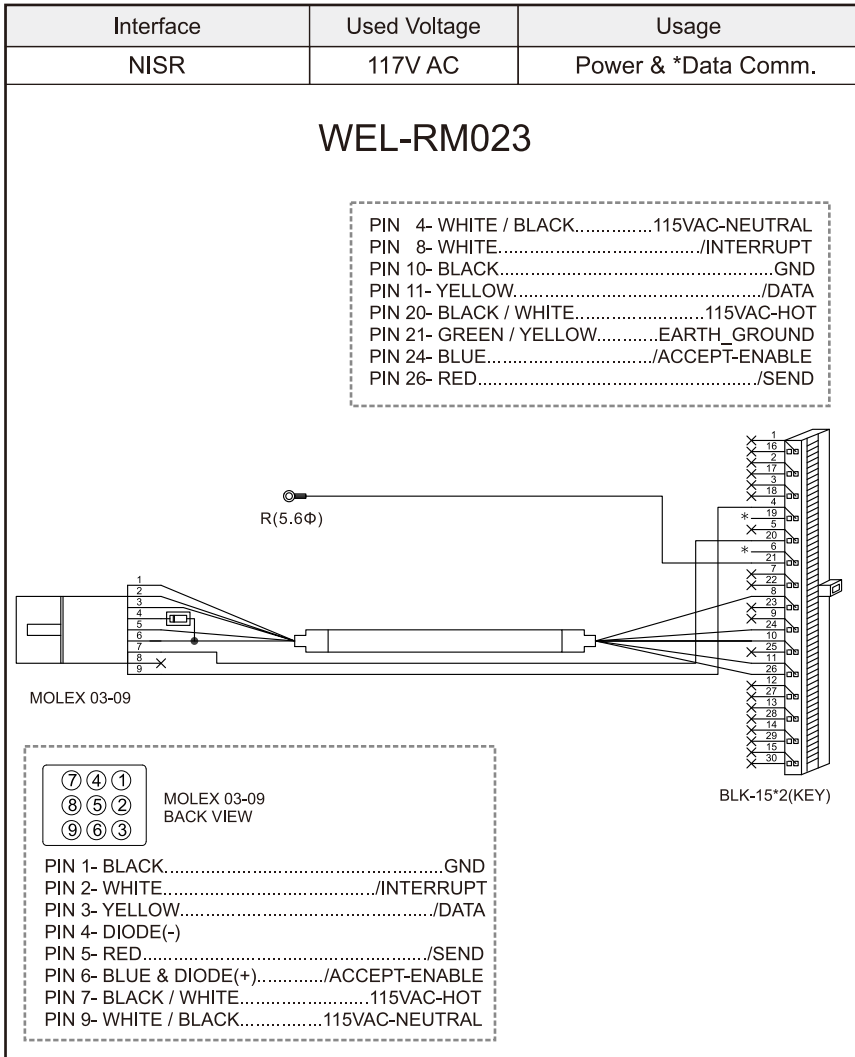
5-1 FIG.05



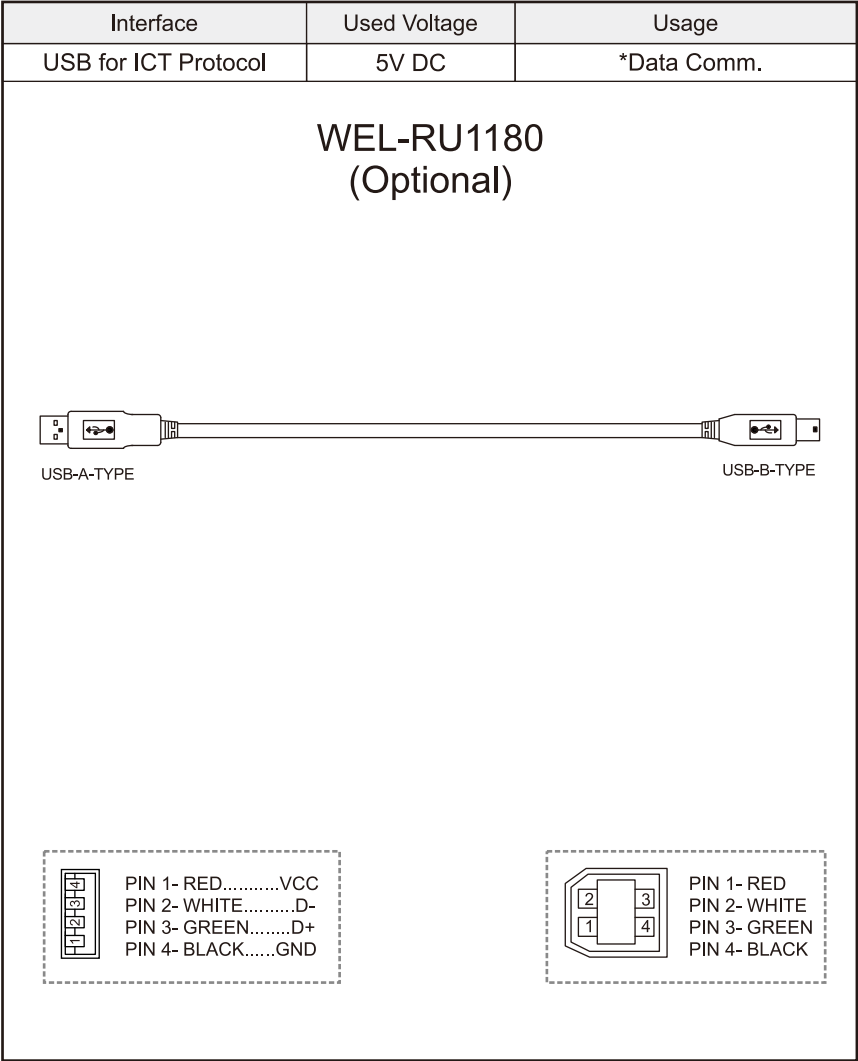
5-1 FIG.06



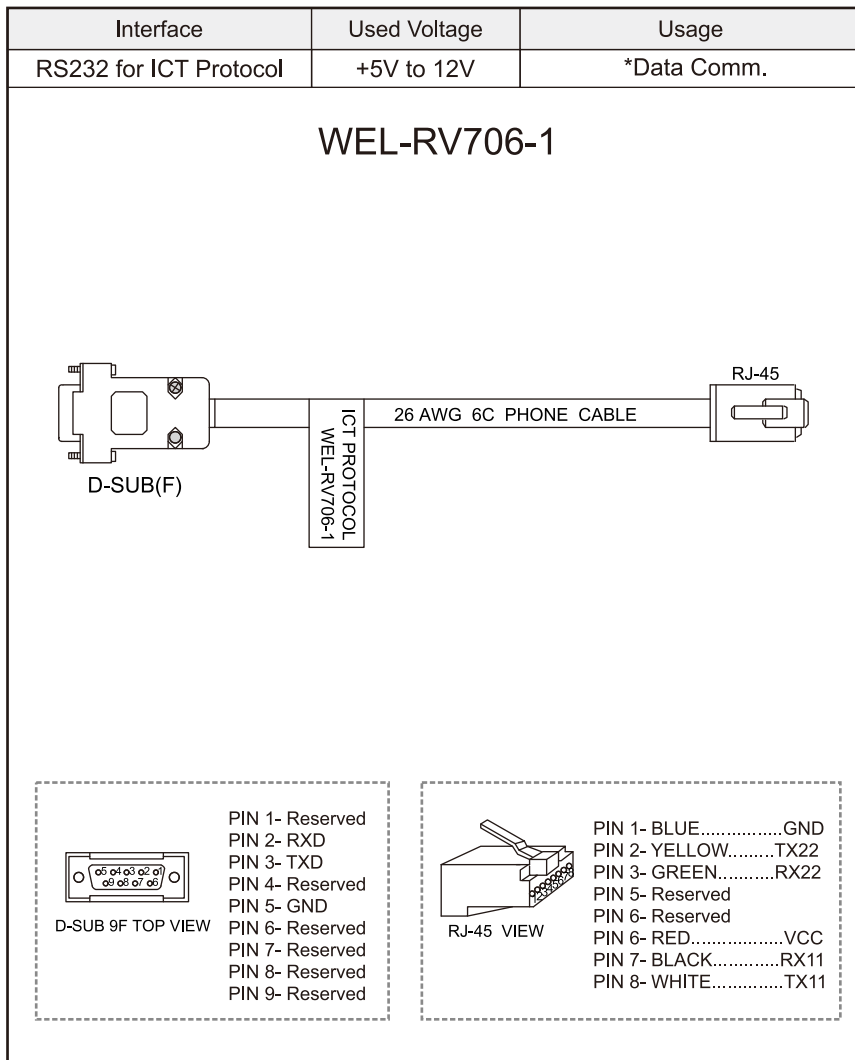
5-1 FIG.07



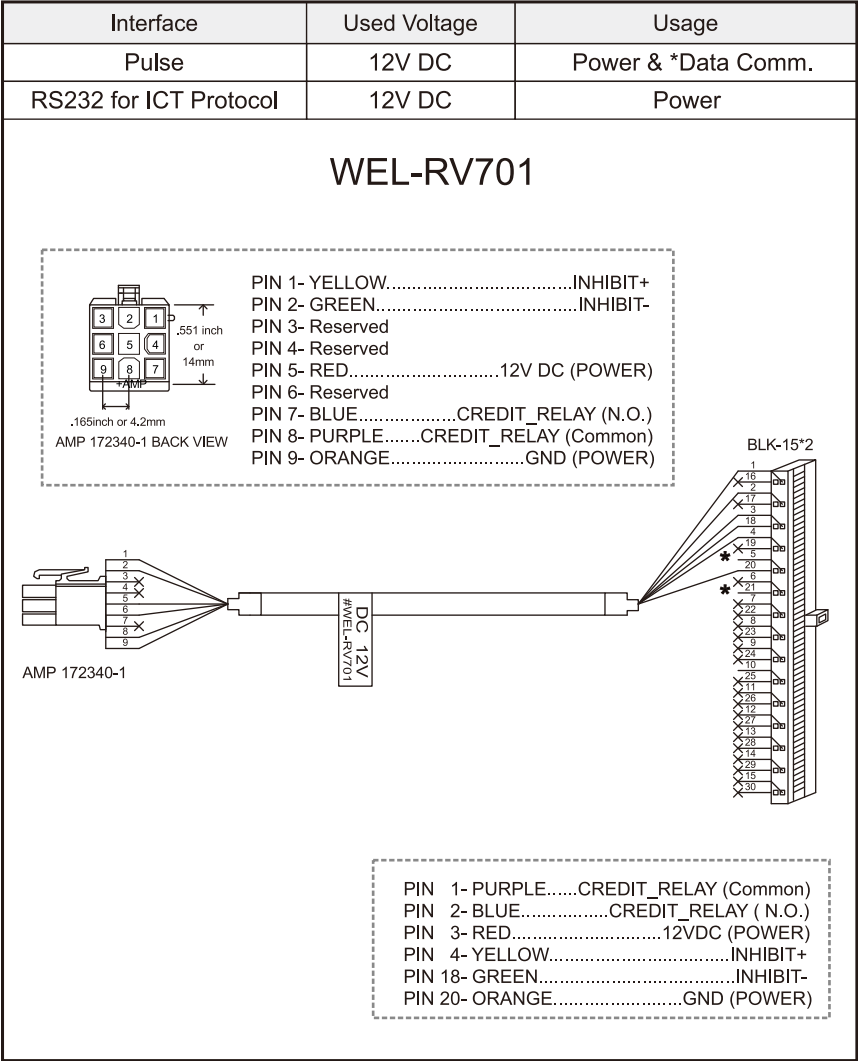
5-1 FIG.08



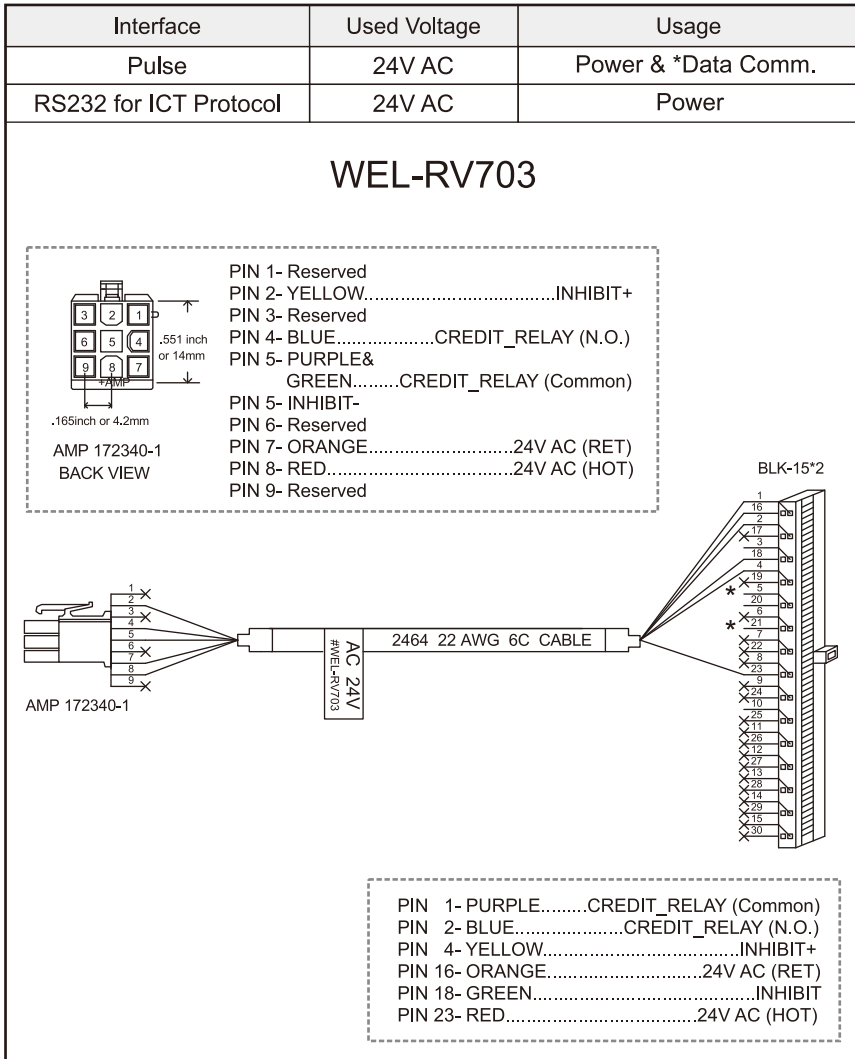
5-1 FIG.9



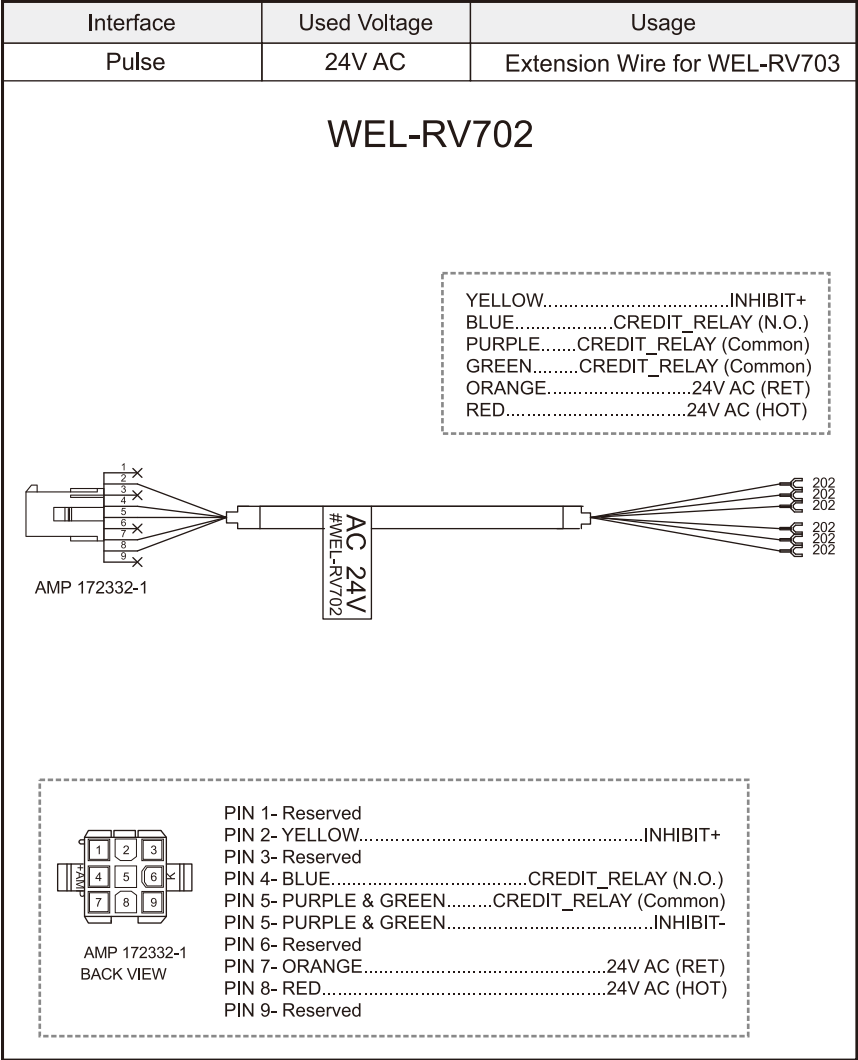
5-1 FIG.10



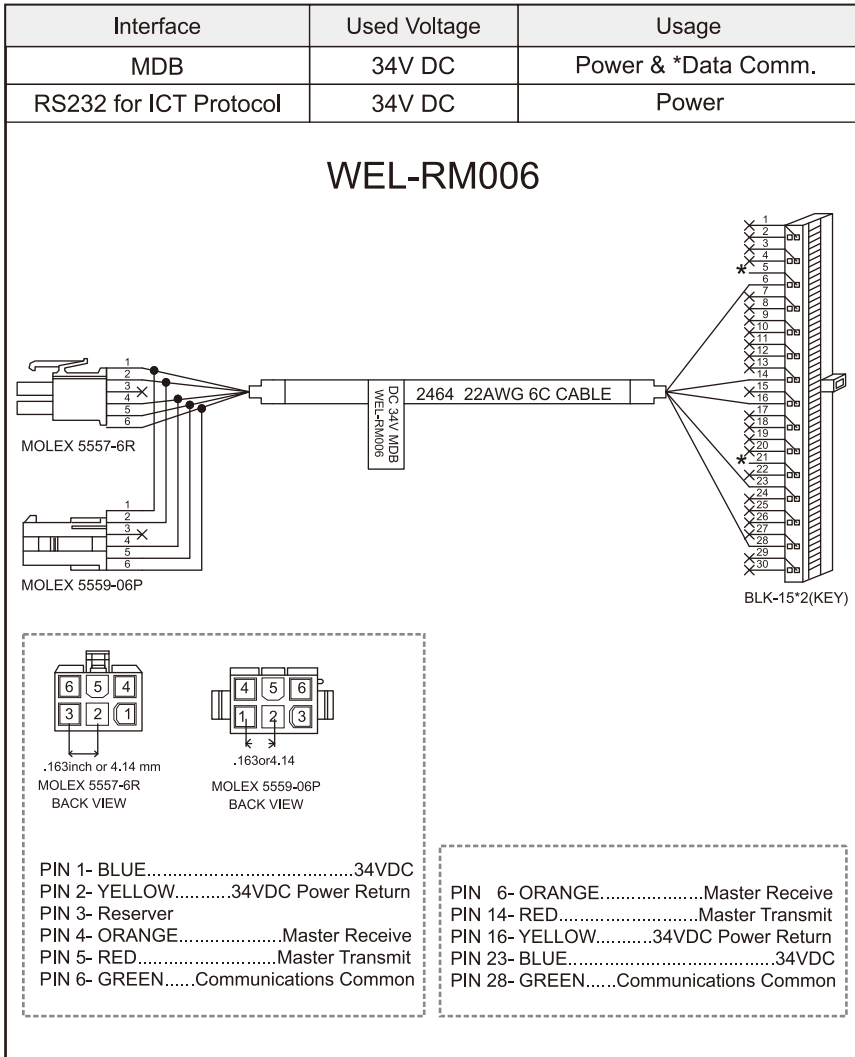
5-1 FIG.11



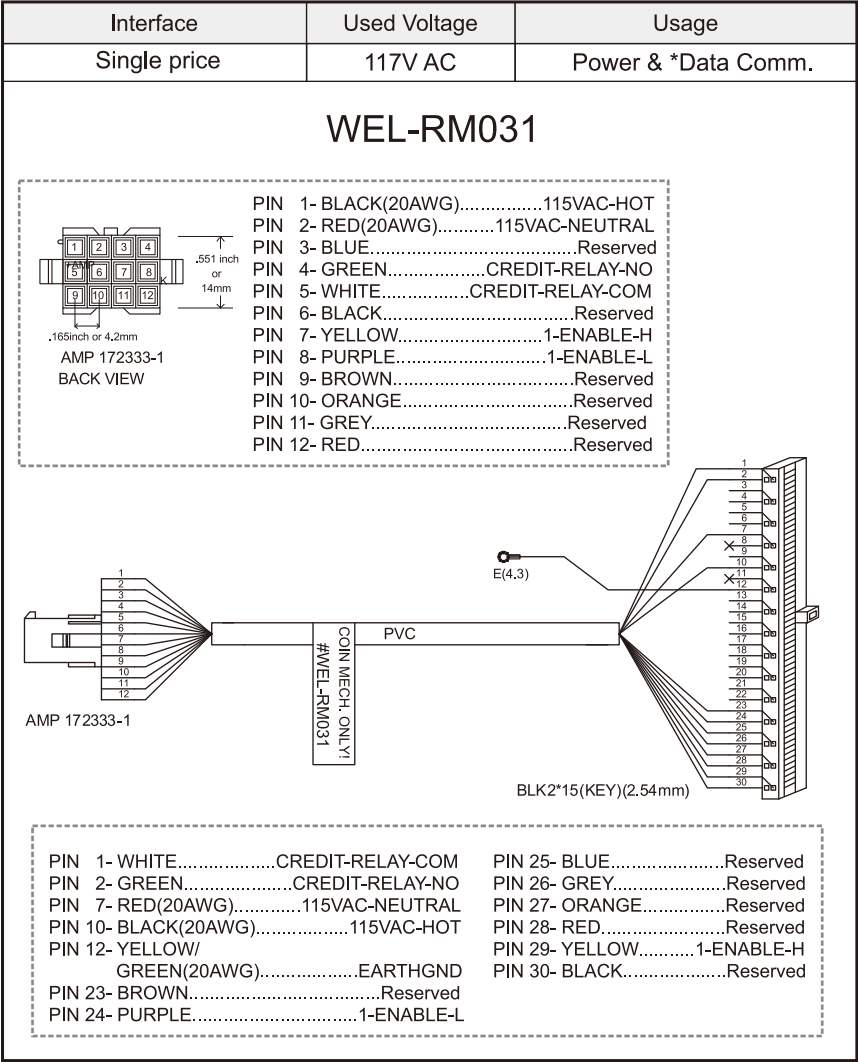
5-1 FIG.12



5-1 FIG.13



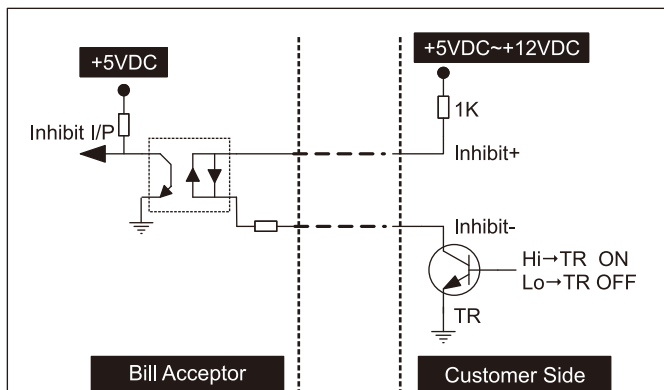
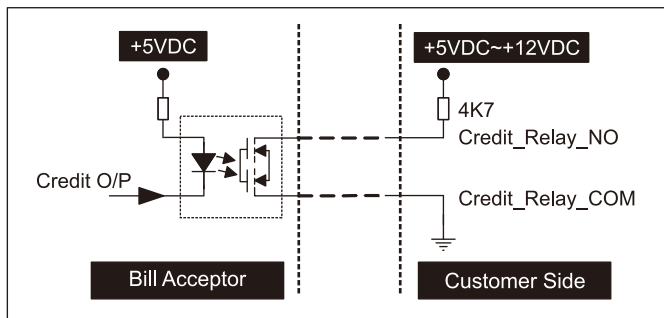
5-1 FIG.14



5-1-1. I/O Circuit

Pulse Interface.

5-1-1 FIG.01

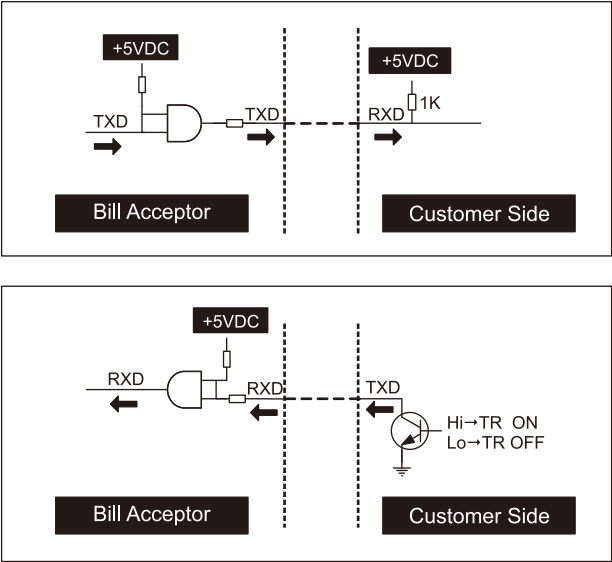


BA Status	*DIP SW Setting	Control Signal
Inhibit	Inhibit Active	Low
		High
Enable	Inhibit Active	Low
		High

*Note: Please refer to DIP Switch Setting Guide for detail.

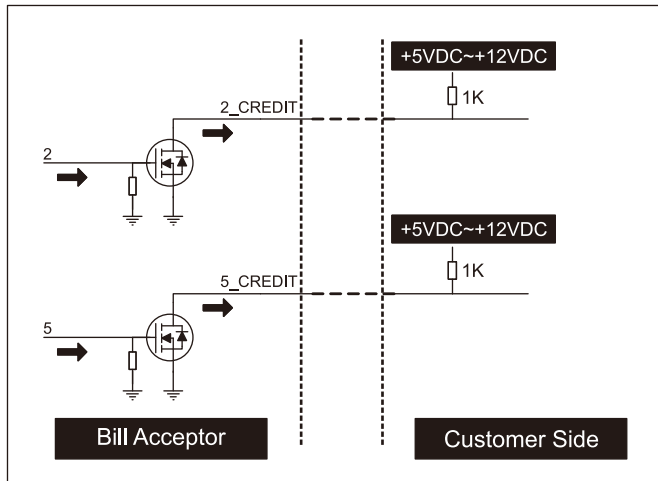
ICT Protocol Interface.

5-1-1 FIG.02



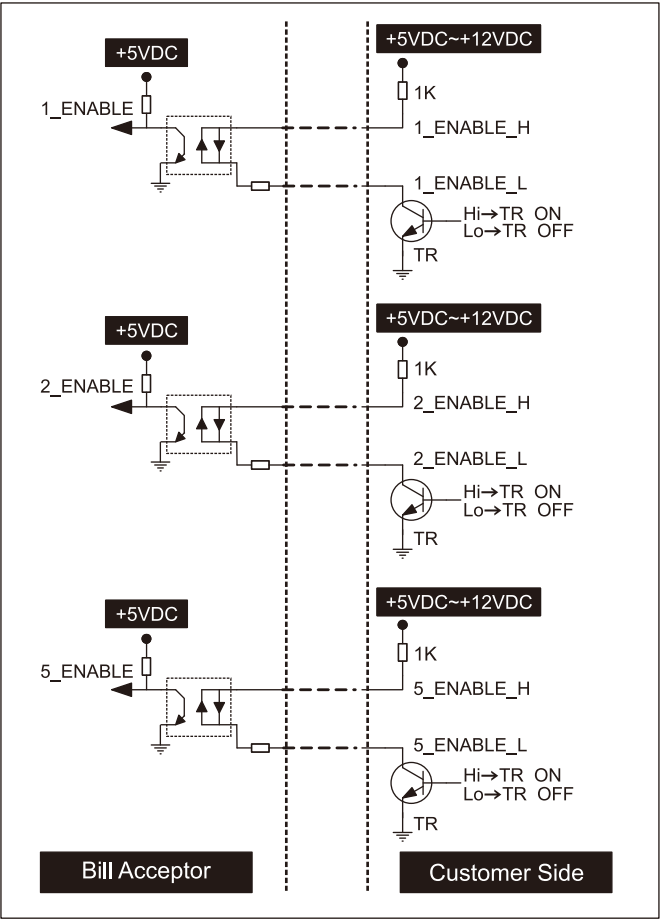
5V Enable Interface-1.

5-1-1 FIG.03-1



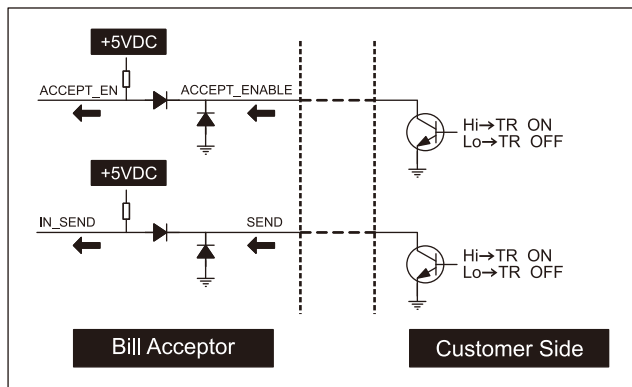
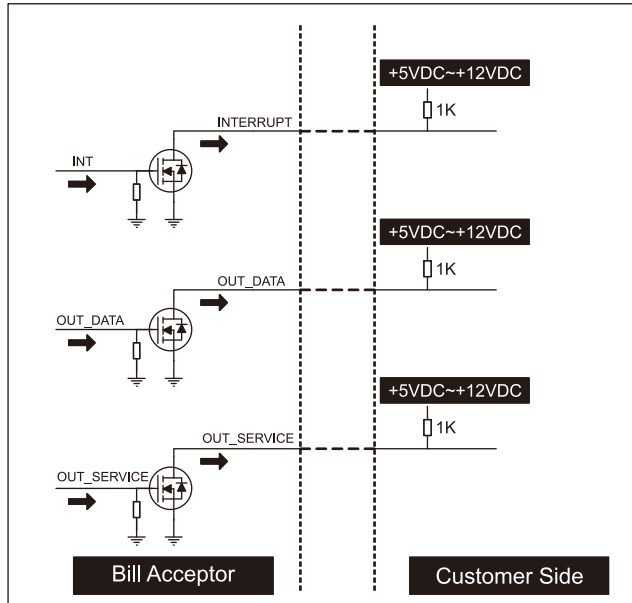
5V Enable Interface-2.

5-1-1 FIG.03-2



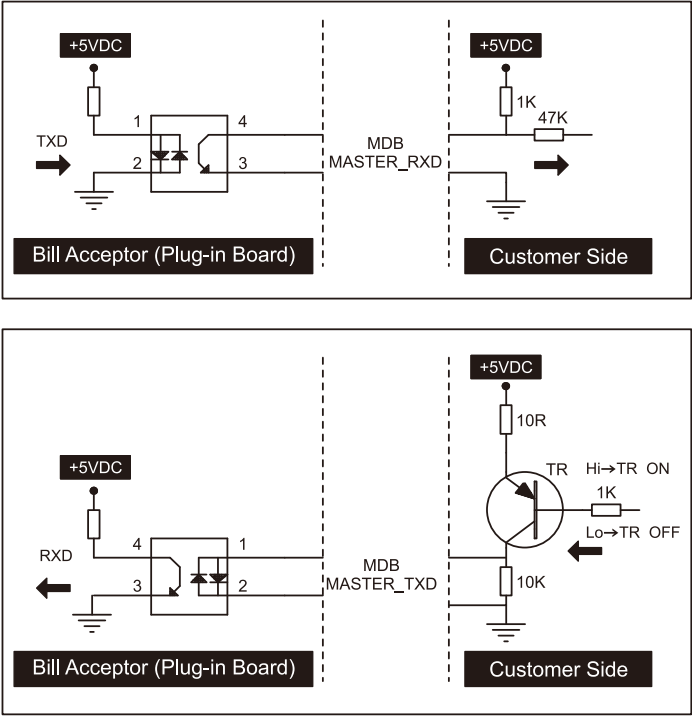
NISR Interface.

5-1-1 FIG.04



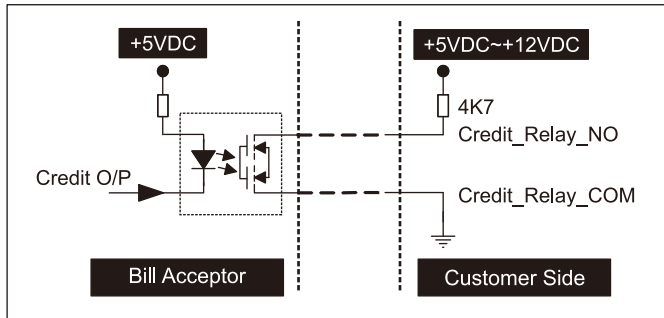
MDB Interface.

5-1-1 FIG.05



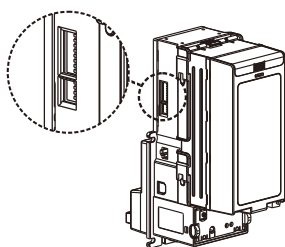
Single Price Interface.

5-1-1 FIG.06

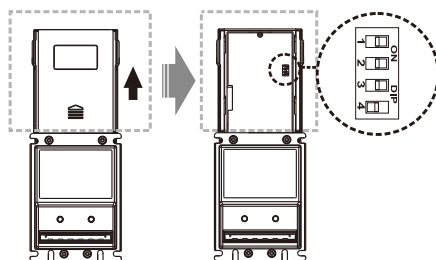


5-2. DIP Switch Setting

There are two serial DIP switches which are located on the side of PA7/PV7(as FIG.01). According to different currencies which are used by users, DIP switch settings could be varied to fit users' needs. Besides, there's also a serial DIP switches on CPU board inside of PA7/PV7 for interface settings (as FIG.02). Please refer to "PA7/PV7 DIP Switch Setting Guide" in the package for more details.



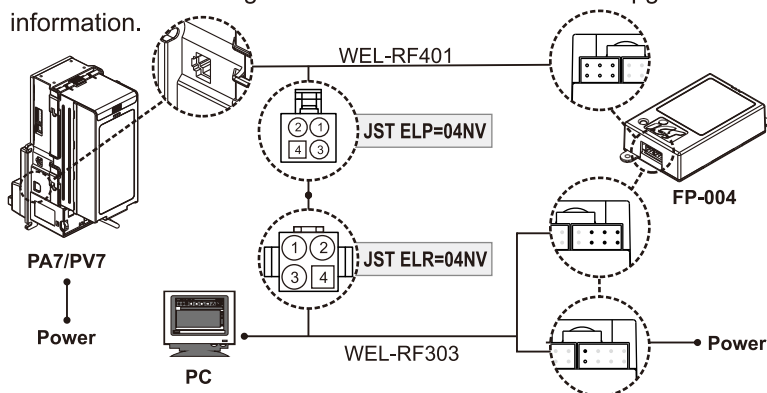
5-2 FIG.01



5-2 FIG.02

5-3. Software Download and Upgrade

To download and upgrade the software to PA7/PV7, 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.



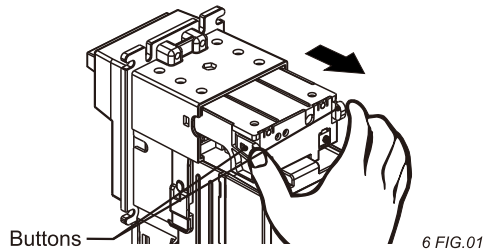
Power must be applied to Bill Acceptor **after** connecting.

6. Maintenance

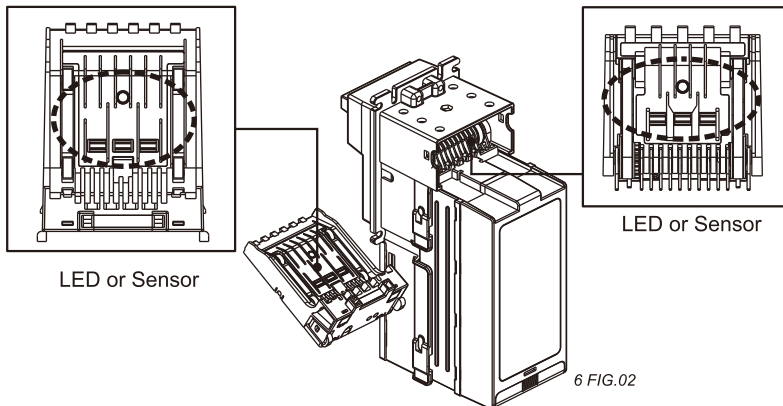
To make sure the bill acceptor always works smoothly, please clean the internal parts regularly.

To clean the internal parts:

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



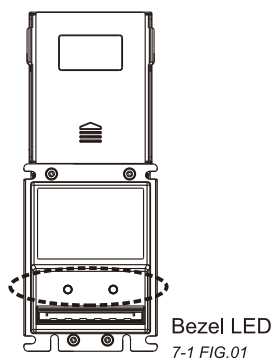
2. Use a soft, dry cloth, or towel to clean the bill path and LED/sensors.



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

7. Troubleshooting

7-1. Bezel LED Errors



LED	Status	Correct Actions
GREEN	White Card Calibration.	Please calibrate with ICT white calibration card.

LED Flashes	Status	Corrective Actions
RED		
1	Bill jammed.	Remove the bill box by sliding the top button(as 7-2 FIG.01) and the bill path unit, and then remove the jammed bill.
2	Inhibit on.	Inspect for right DIP switch settings.
3	Sensor error.	Inspect for foreign objects on sensor and hook then clean.
4	Stringing attempt has detected.	Inspect for foreign objects on sensor or bill path and clean.
5	Stacker has been removed.	Replace the bill box.
7	Motor error.	Inspect for foreign objects on bill path and clean.
8	Stacker error or Stacker full.	Inspect for foreign objects in bill box and clean or remove bills in bill box.

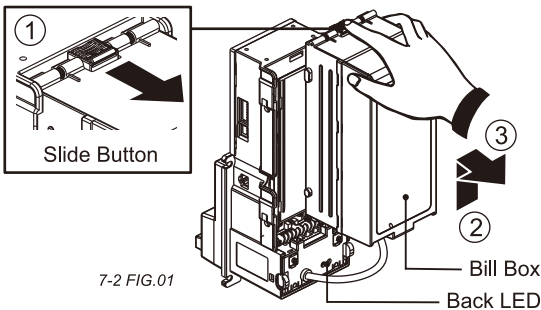


If the error can not be solved after corrective actions or happen again, please contact ICT for technical support.

7-2. Back LED Errors

LED	Status	Correct Actions
GREEN	White Card Calibration.	Please calibrate with ICT white calibration card.

LED Flashes	Status	Corrective Actions
GREEN		
1	Bill jammed.	Remove the bill box by sliding the top button(as 7-2 FIG.01) and the bill path unit, and then remove the jammed bill.
2	Inhibit on.	Inspect for right DIP switch settings.
3	Sensor error.	Inspect for foreign objects on sensor and hook then clean.
4	Stringing attempt has detected.	Inspect for foreign objects on sensor or bill path and clean.
5	Stacker has been removed.	Replace the bill box.
7	Motor error.	Inspect for foreign objects on bill path and clean.
8	Stacker error or Stacker full..	Inspect for foreign objects in bill box and clean or remove bills in bill box.



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



International Currency Technologies Corporation

No.28, Ln. 15, Sec. 6, Minquan E. Rd., Neihu Dist., Taipei City 114, Taiwan

sales@ictgroup.com.tw (For Sales)

fae@ictgroup.com.tw (For Customer Service)

Website: www.ictgroup.com.tw

