



MF1-V

Smart Card Reader

MF1-C MF1-V

Installation Guide



MF1-C

International Currency Technologies Corp.

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1. Introduction

1-1. Features

CMAG Card Station can add/delete credit on the G Card and store daily transactions up to one month.

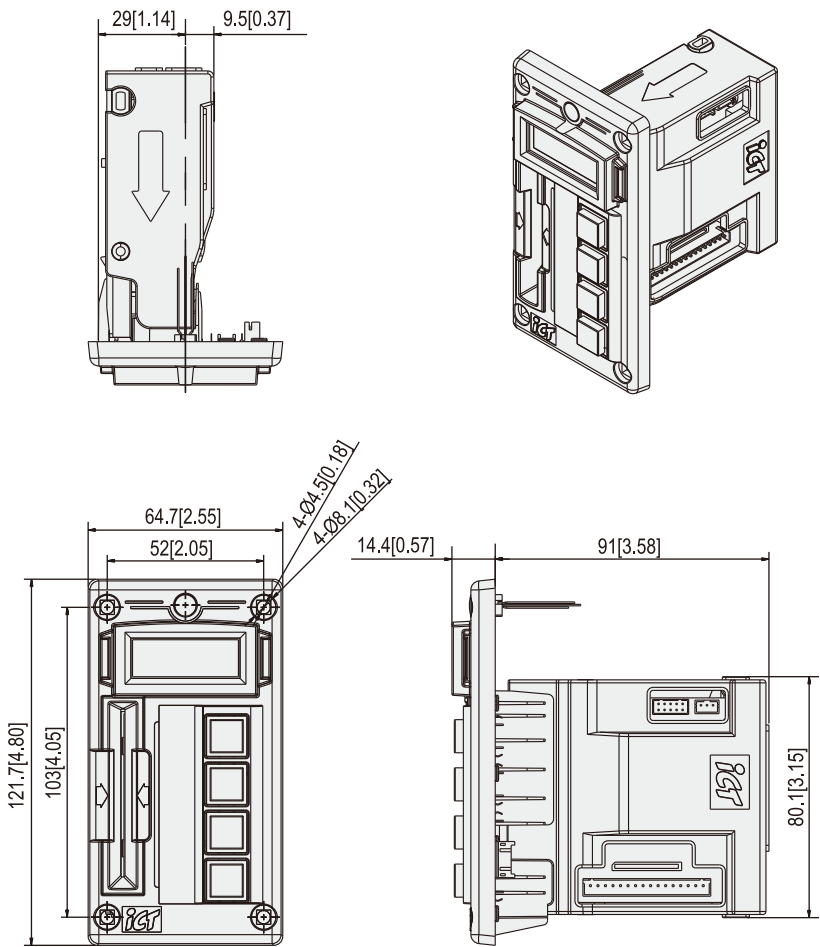
- ◆ Open Card functions available for easy operation management.
- ◆ Pulse specifications can be set.
- ◆ User ID and password are necessary when adding value.
- ◆ Hopper mode available for payout.
- ◆ Capable of setting availability date for user cards.

2. Specifications

Card	Mifare S50
Power Input	DC 12V±5%
Power Consumptions	RFID for CA Bezel: <300mA CMAG Card Station :<1A
Read Card Speed(Insert/Leave)	≤0.3sec.
Clock Module	Build in Clock Function for Record Trade List
FRAM	Record Business Transaction and Setup Parameter
Button	MF1-C/ MF1-V: Four Credit Button (Ex: US\$ 1,5,10,20) CMAG Card Station: Setup Credit (Keypad)
Interface	MF1-C: Pulse, RS232 MF1-V: VCCS (VCCS box)
Credit Operating	Send Different Credit (Four Push-Button)
Environment	Operating Temperature: 0°C~55°C Storage Temperature:-20°C~70°C Humidity: 30%~85%RH (no condensation)
ESD	10KV(A Class); 15KV(B Class)
Write endurance	100000 cycles
Product Warranty	1 year

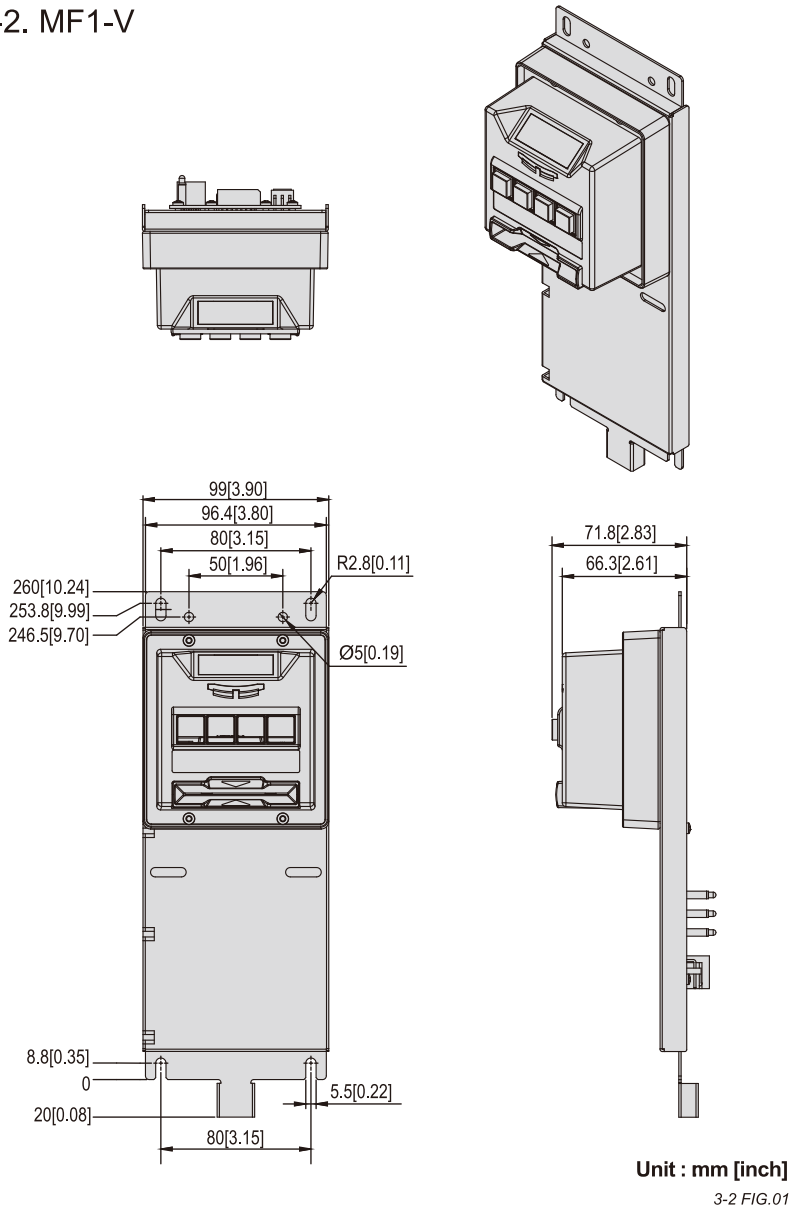
3. Dimension

3-1. MF1-C

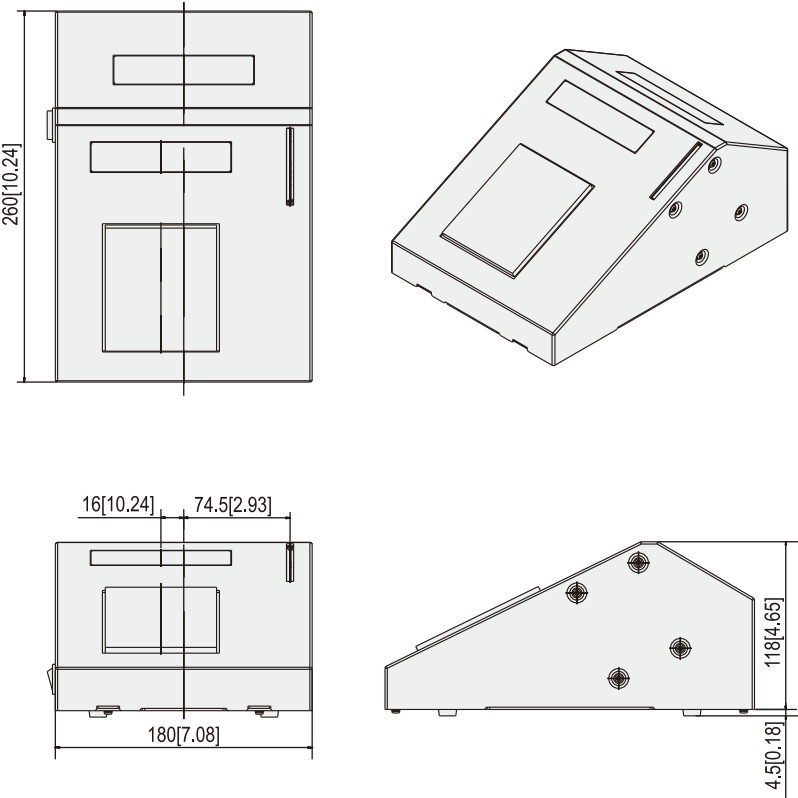


Unit : mm [inch]
3-1 FIG.01

3-2. MF1-V



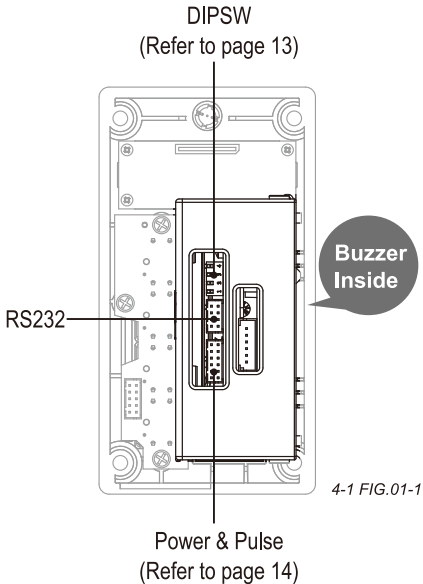
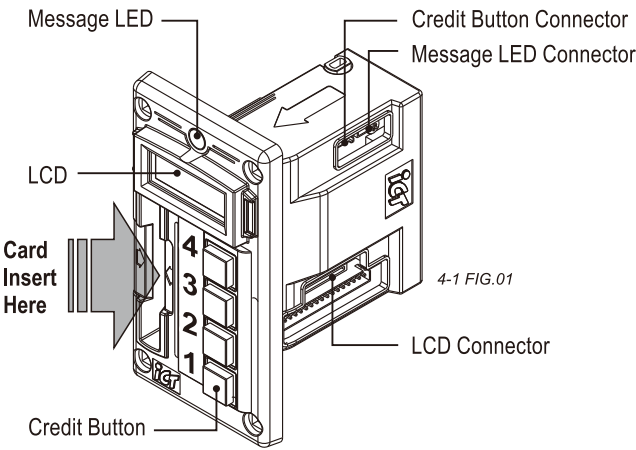
3-3. CMAG Card Station



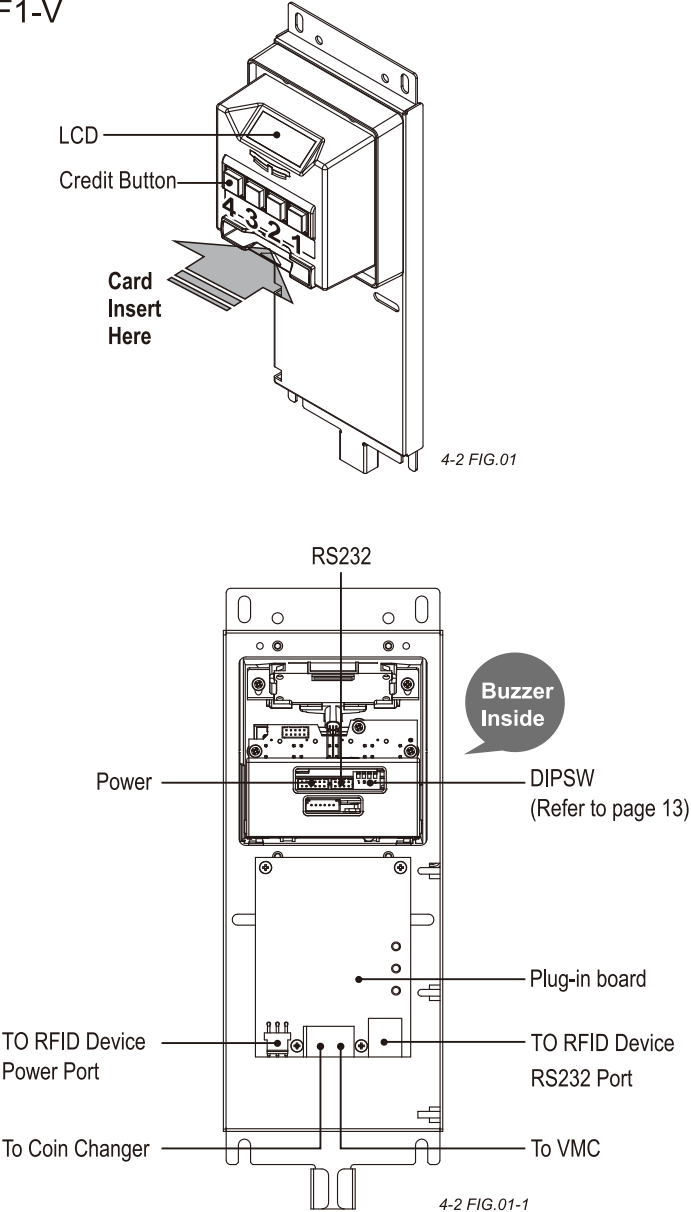
Unit : mm [inch]
3-3 FIG.01

4. Components

4-1. MF1-C



4-2. MF1-V



5. Installation

5-1. Harness Application

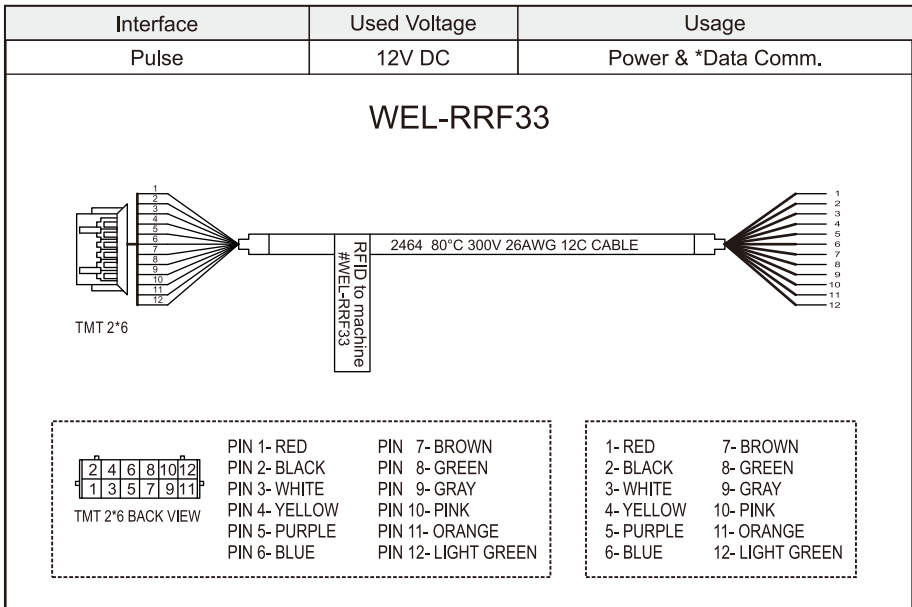
5-1 TABLE 01

Model	Interface board	Interface	Used Voltage	Usage	Harness	Page
MF1-C	N/A	Pulse	12V DC	Power & *Data Comm.	WEL-RRF33	9
		RS232	N/A	*Data Comm.	WEL-RNK10	10
MF1-V	3BA-RAA366-AX-0X (AA366XX)	VCCS	12V DC (Output)	Power & *Data Comm.	WEL-RRF37	11
			24V DC (Input)	Power & *Data Comm.	WEL-RRSVC03	12

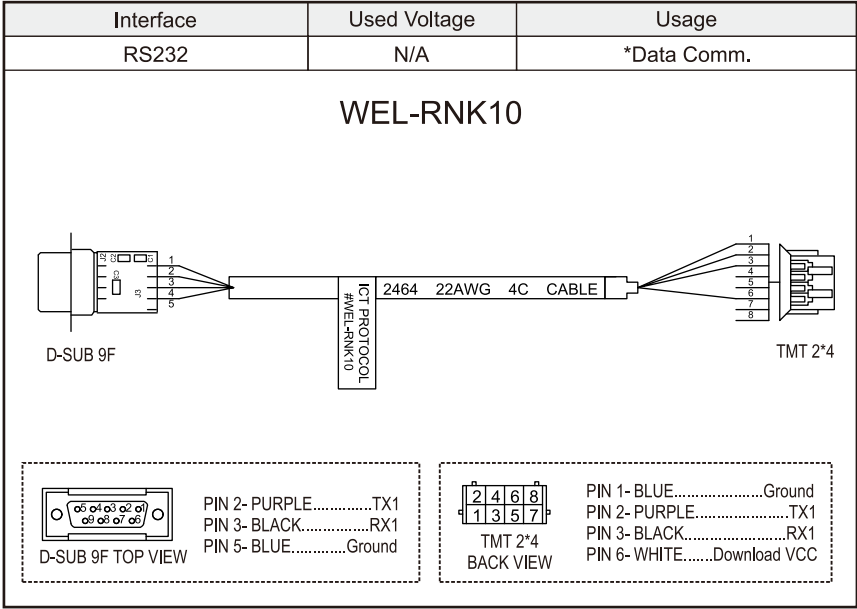
* Data Comm. : Data Communication.

X: PCA, PCB version, will update if need.

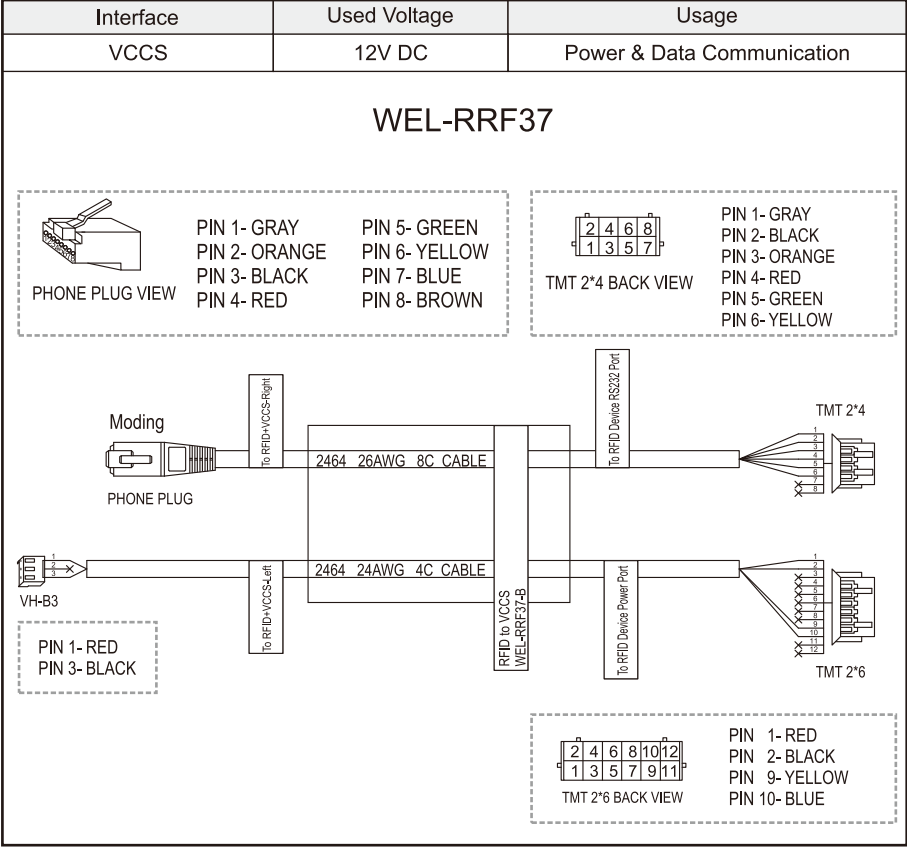
5-1 FIG.01



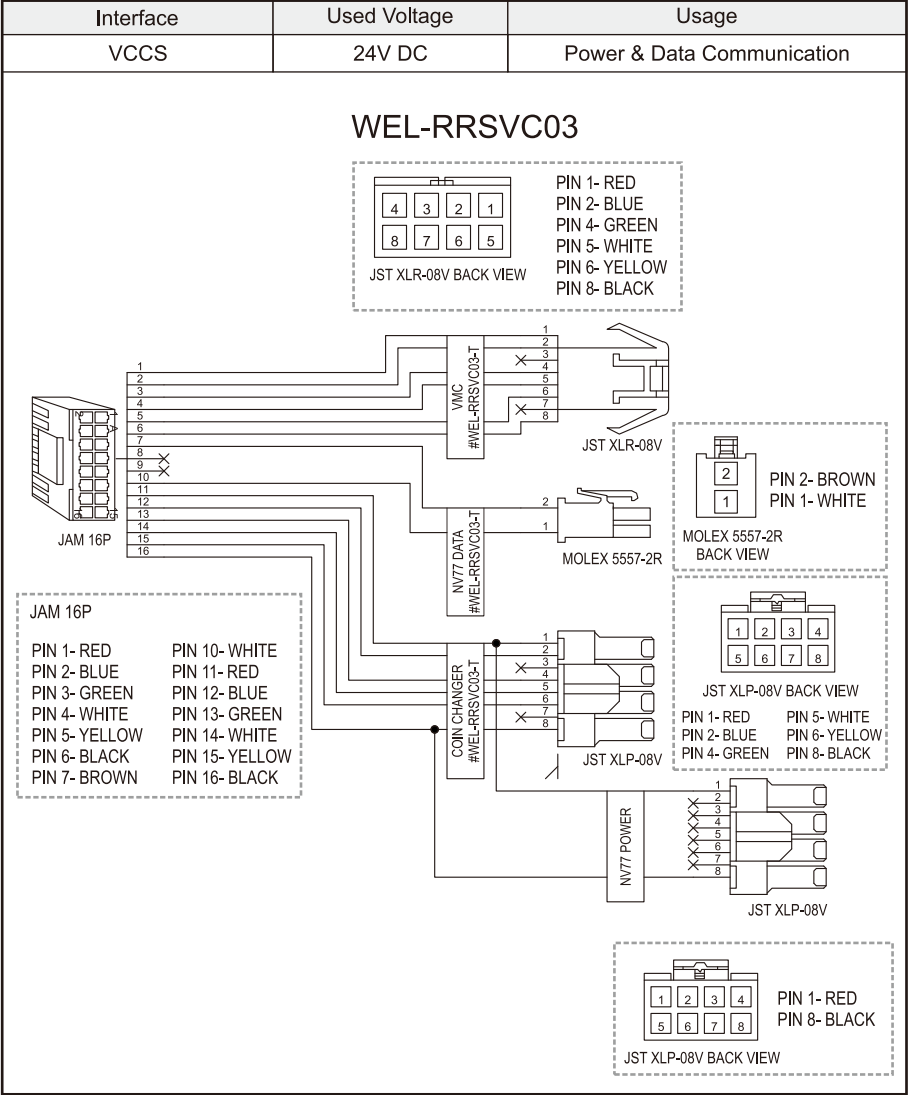
5-1 FIG.02



5-1 FIG.03



5-1 FIG.04



5-2. Operation

5-2-1. DIP SW Setting

5-2-1 TABLE 01

Status	SW1	SW2	SW3	SW4
RFID Credit Output N.C	OFF			
RFID Credit Output N.O	ON			
Hopper Credit Output N.C		OFF		
Hopper Credit Output N.O		ON		
Interface Pulse+Hopper Mode			OFF	
Interface ICT Mode (MF1-V default)			ON	
By Cup				OFF
By Credit				ON

5-2-2. Instructions

(1) Idling.

Welcome
18:28:06

(2) Inhibit by Game Machine.

Function Disable
By Controller

(3) Insert Correct Card.

Credit:
5000

(4) Insert Wrong Card.

Store PW ERROR
Check The Card

Money CheckSum
Confirm Error!!

(5) Deduct Credit from card
to Game Machine.

Credit:
4999

5-2-3. Connector (Power & Pulse)

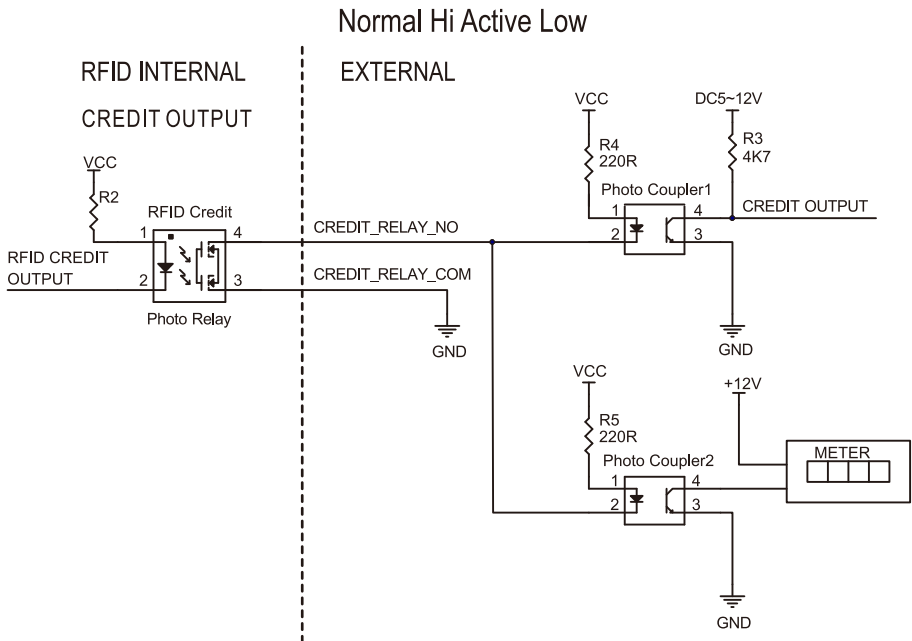
2	4	6	8	10	12
1	3	5	7	9	11

5-2-3 FIG.01

5-2-3 TABLE 01

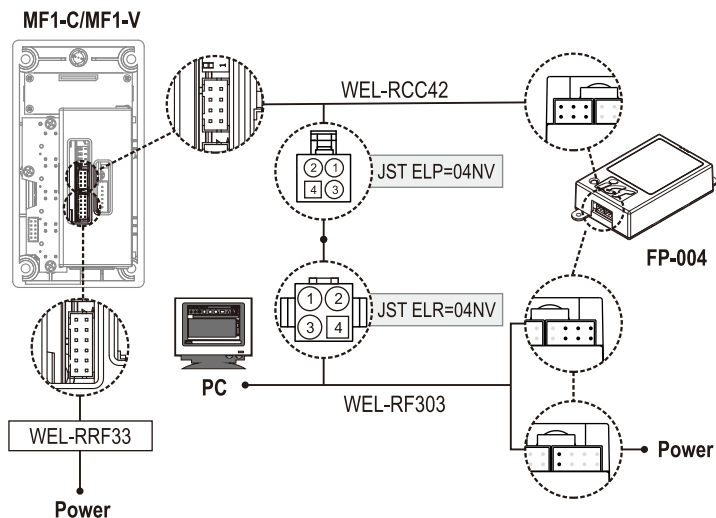
PIN No.	Name	Pulse Mode	Hopper Mode	RS232 Mode
1	Power IN +12VDC	IN	IN	IN
2	Power IN GND	IN	IN	IN
3	Payout_Credit_IN+	IN		N/A
4	Payout_Credit_IN-	IN		N/A
5	Credit_Relay_NO	OUT		N/A
6	Credit_Relay_COM	OUT		N/A
7	Inhibit+	IN		N/A
8	Inhibit-	IN		N/A
9	ADJUST RTC Time			N/A
10	Hopper_Credit_NO		OUT	N/A
11	Hopper_Credit_COM		OUT	N/A
12	SSR (Active Low)		IN (Hopper Trigger)	N/A

5-2-4. Connection-Credit Relay



5-3. Software Downloading

Step 1. Connection



Step 2. Launch software FP-004.

Download FP-004 from <http://www.ictgroup.com.tw/> ➡ support

Step 3. Use notepad to edit file "FP-004x.INI".

The com port setting varies according to the connection on PC.

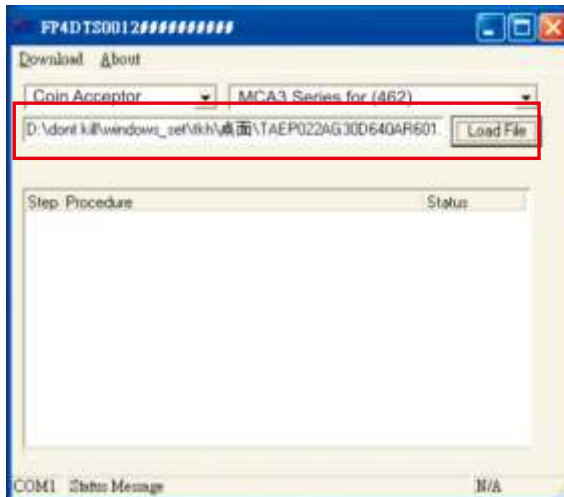
```
[COM PORT SETTING]
PORT=COM1
BAUD=115200
DATA=8
STOP=1
PARITY=E
```

Step 4. Select the appropriate model under bill acceptor type.



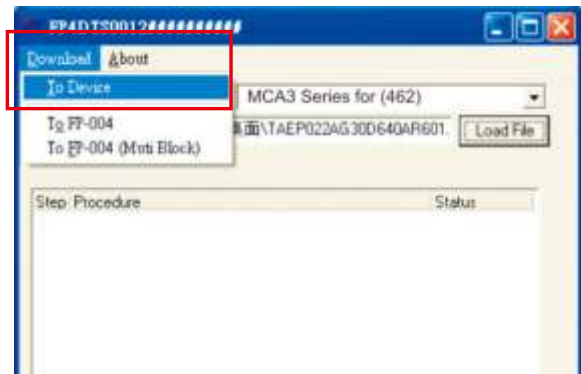
5-3 FIG.01

Step 5. Retrieve the firmware path.
(Drag the firmware (hex file) into FP-004 window.)

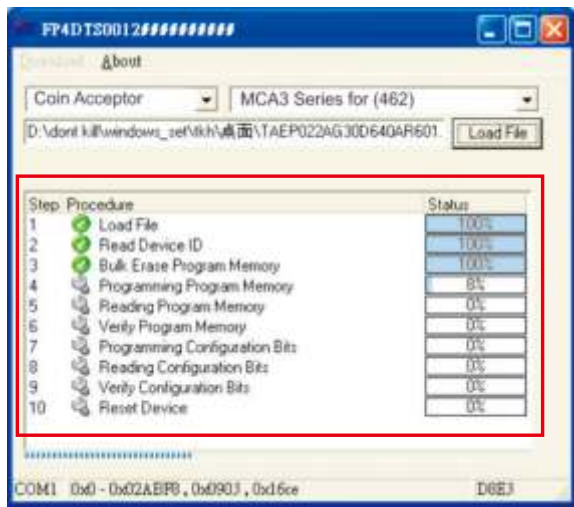


5-3 FIG.02

Step 6. Download firmware to target through FP-004.



5-3 FIG.03



5-3 FIG.04

Step 7. Complete downloading.
Firmware is saved in FP-004 now.

5-4. Indicate status

5-4 TABLE 01

Message LED			
Status	Green	Red	Buzzer
Power ON	OFF		NA
Recognize card	OFF		2 Beeps
Deal OK	ON		1 Beep
Deal NG		ON	3 Beeps

5-4 TABLE 02

LCD Display Display Format: 16 characters (W)×2 lines (H)			
	Backlight Color	Word	Qty
MF1-C/MF1-V	White	Gray	1
CMAG Card Station	White	Gray	2



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