



**MF1-V**



**MF1-C**

Smart Card Reader

# MF1-C MF1-V

Installation Guide

**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.

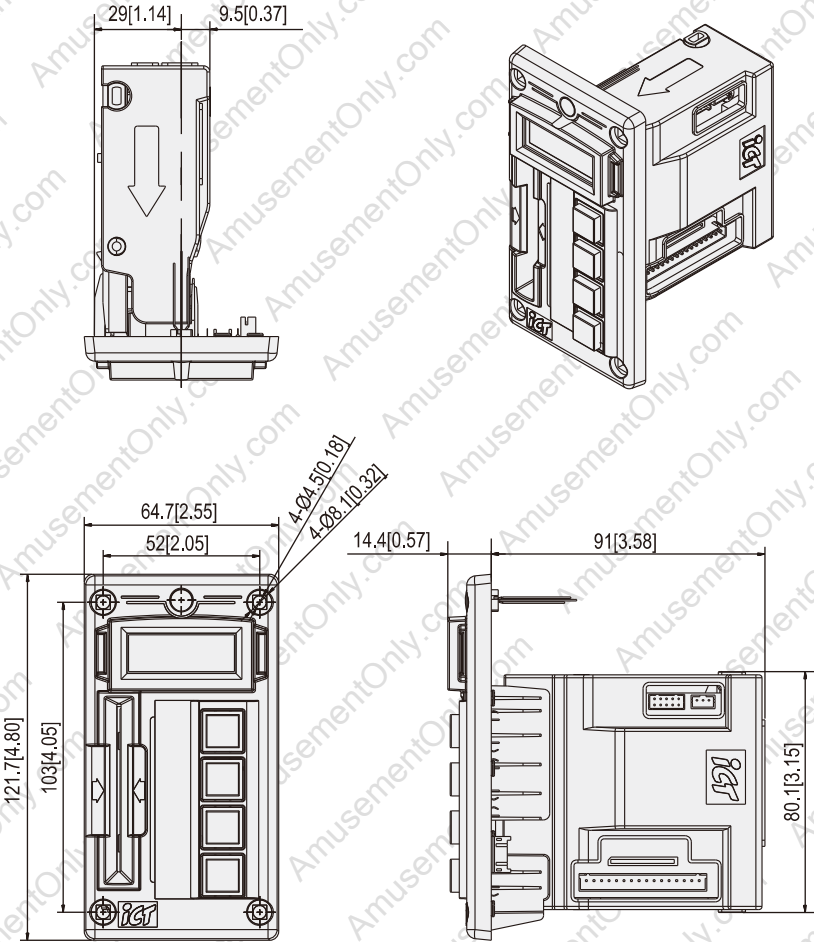
## 2. Specifications

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

# MF1-C/MF1-V

## 3. Dimension

### 3-1. MF1-C

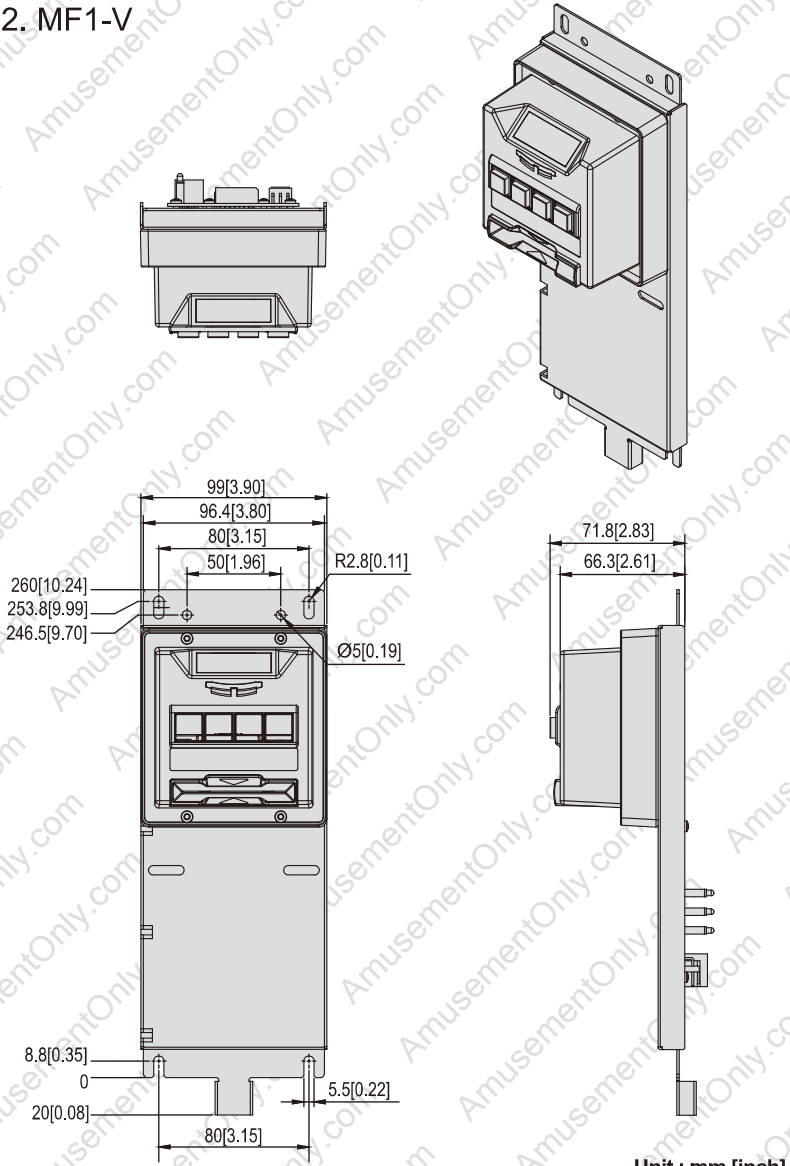


Unit : mm [inch]

3-1 FIG.01

# MF1-C/MF1-V

## 3-2. MF1-V

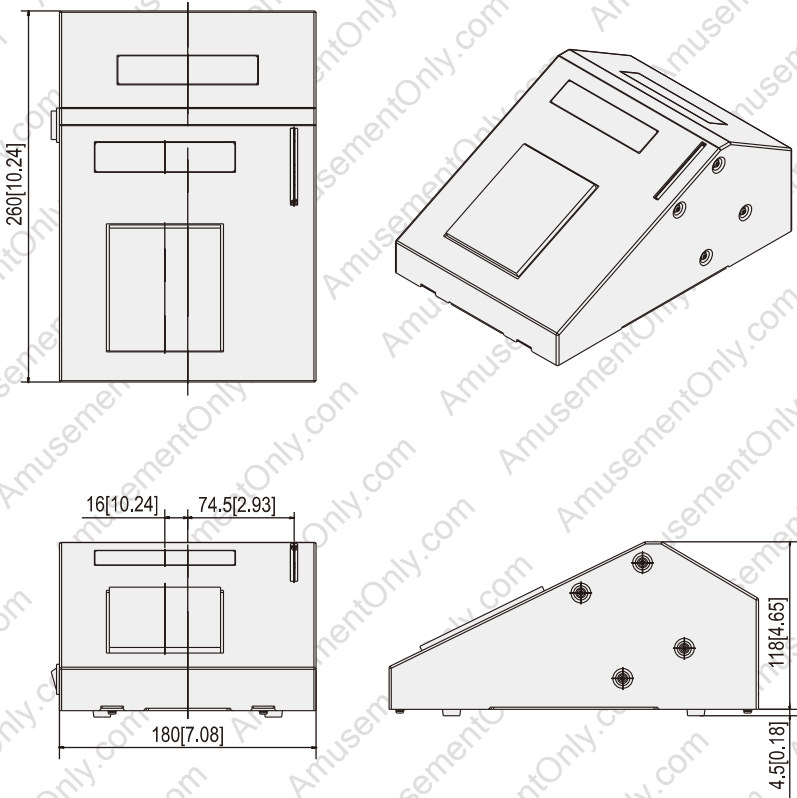


Unit : mm [inch]

3-2 FIG.01

# MF1-C/MF1-V

## 3-3. CMAG Card Station

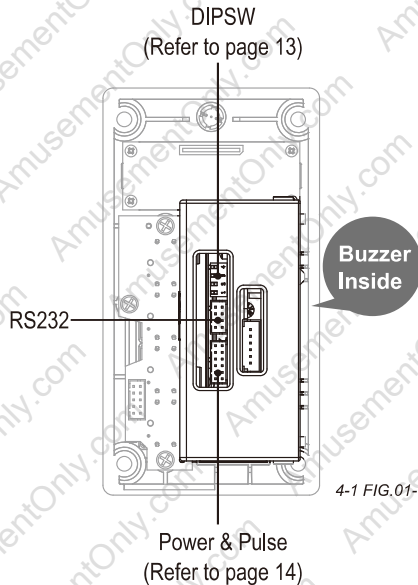
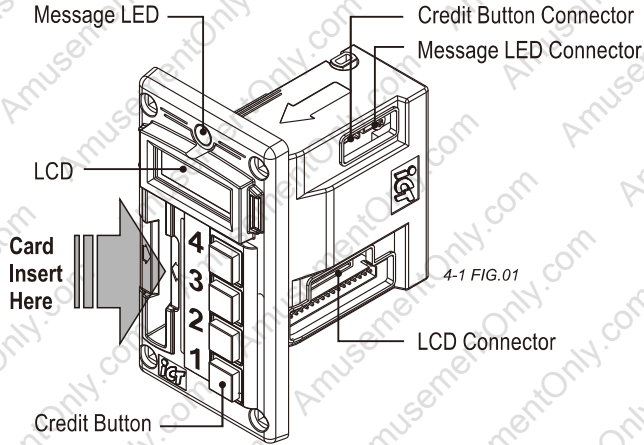


Unit : mm [inch]

3-3 FIG.01

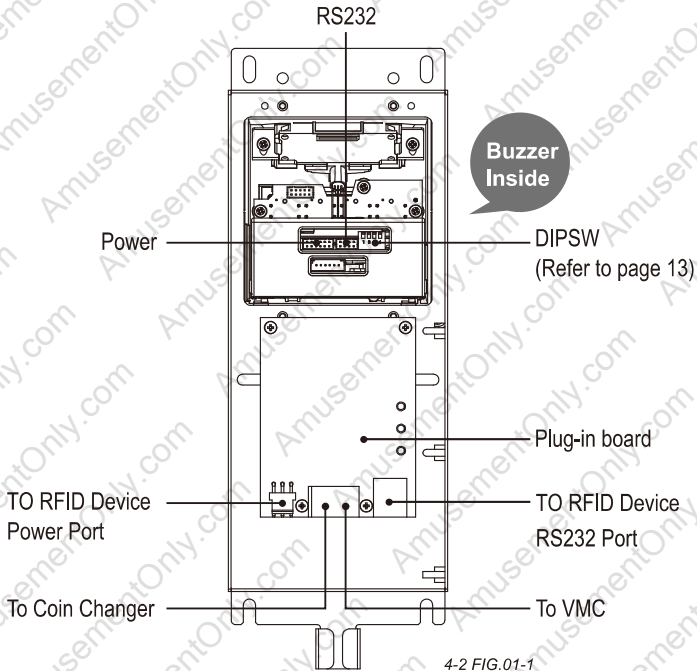
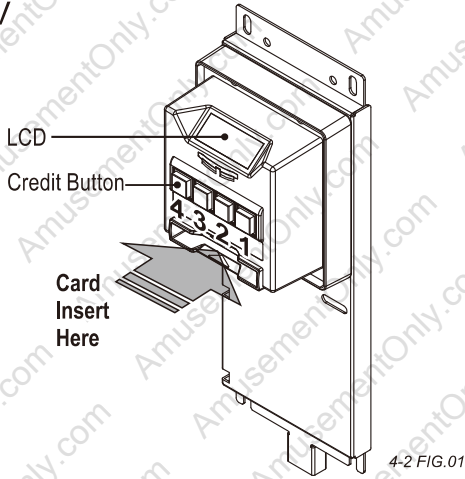
## 4. Components

### 4-1. MF1-C



# MF1-C/MF1-V

## 4-2. MF1-V



## 5. Installation

### 5-1. Harness Application

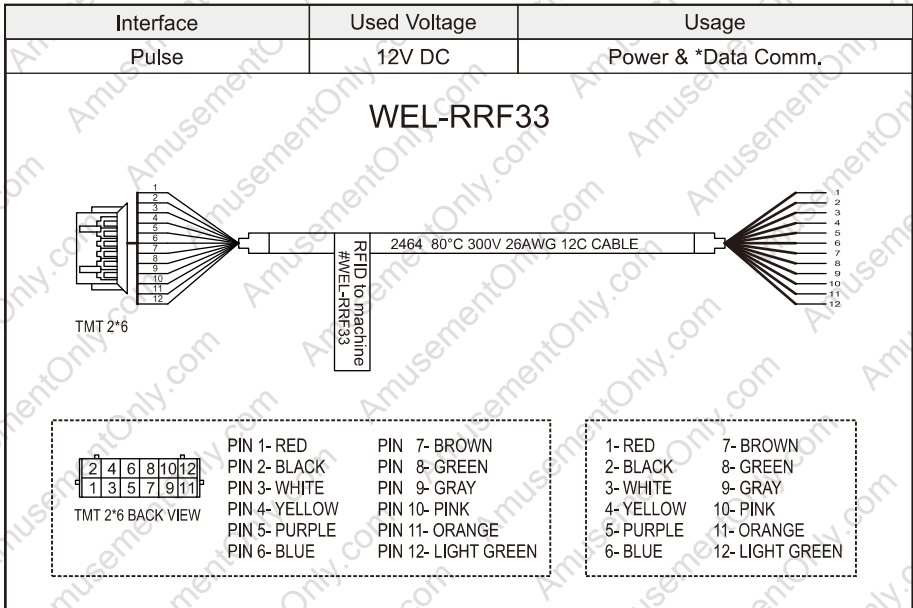
5-1 TABLE 01

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.

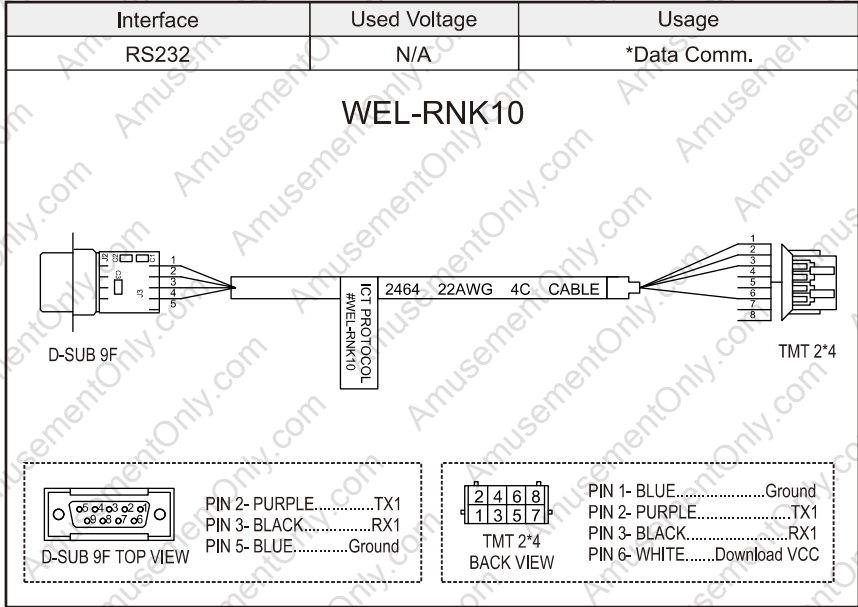
X: PCA, PCB version, will update if need.

5-1 FIG.01



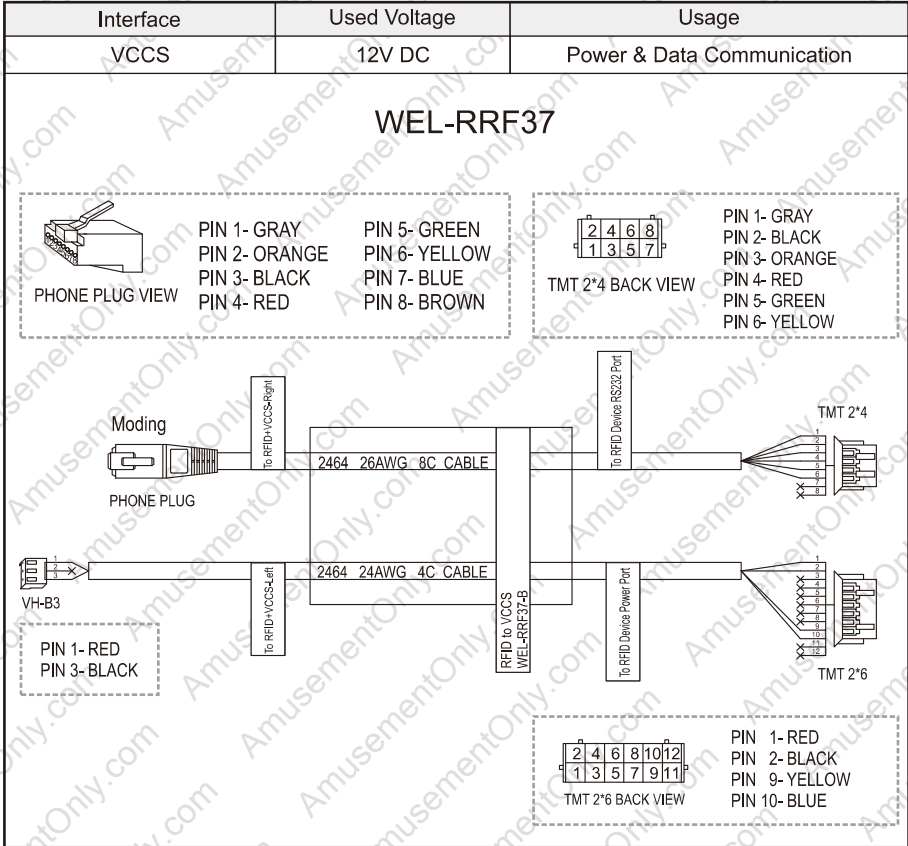
# MF1-C/MF1-V

5-1 FIG.02



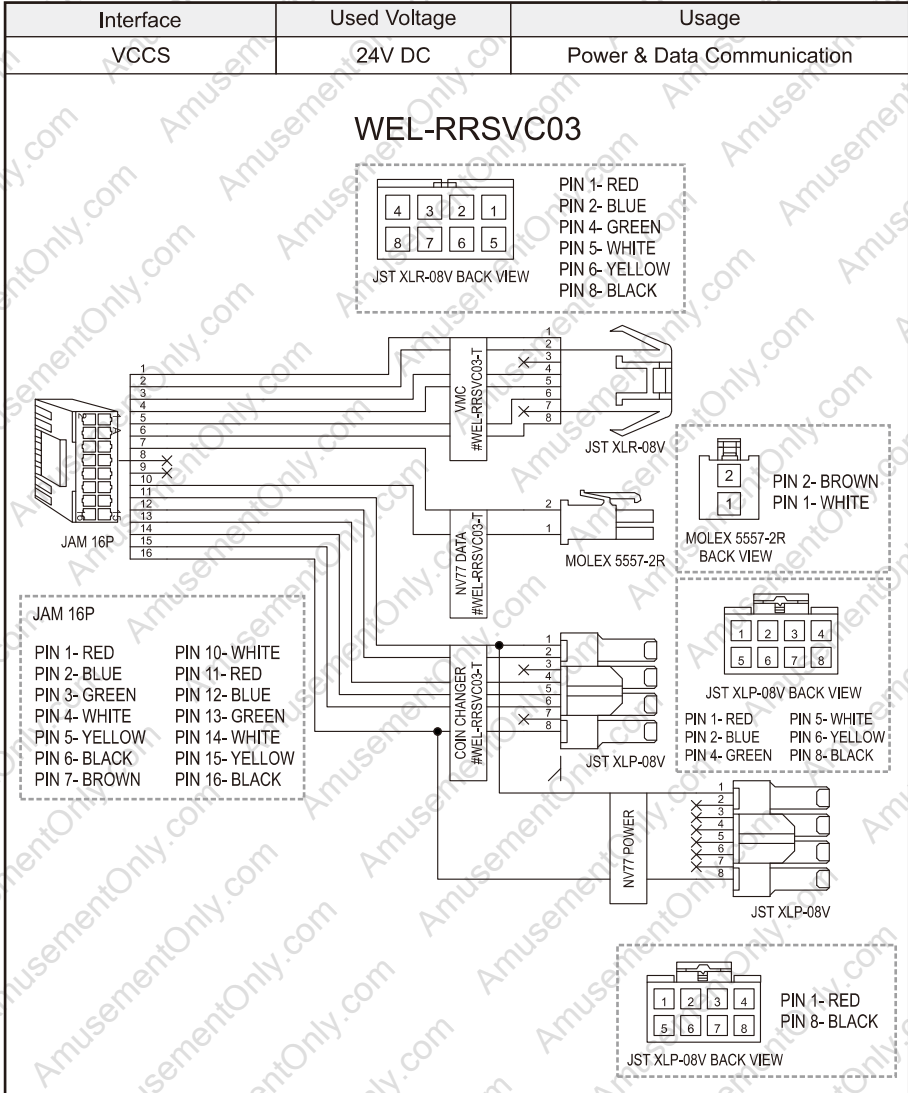
# MF1-C/MF1-V

5-1 FIG.03



# MF1-C/MF1-V

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 ( <b>MF1-V default</b> )			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

# MF1-C/MF1-V

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

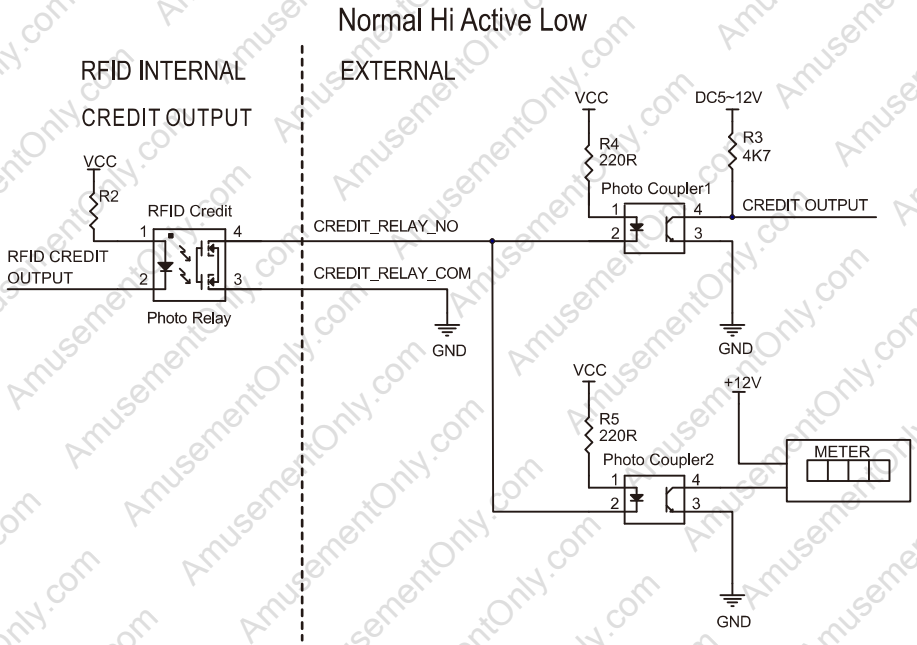
2	4	6	8	10	12
1	3	5	7	9	11

5-2-3 FIG.01

5-2-3 TABLE 01

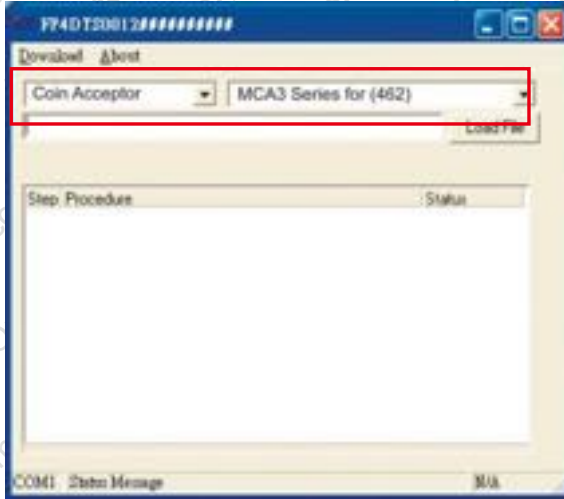
PIN No.	Name	Pulse Mode	Hopper Mode	RS232 Mode
1	Power IN +12VDC	IN	IN	IN
2	Power IN GND	IN	IN	IN
3	Payout_Credit_IN+	IN		N/A
4	Payout_Credit_IN-	IN		N/A
5	Credit_Relay_NO	OUT		N/A
6	Credit_Relay_COM	OUT		N/A
7	Inhibit+	IN		N/A
8	Inhibit-	IN		N/A
9	ADJUST RTC Time			N/A
10	Hopper_Credit_NO		OUT	N/A
11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

## 5-2-4. Connection-Credit Relay





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



5-3 FIG.01

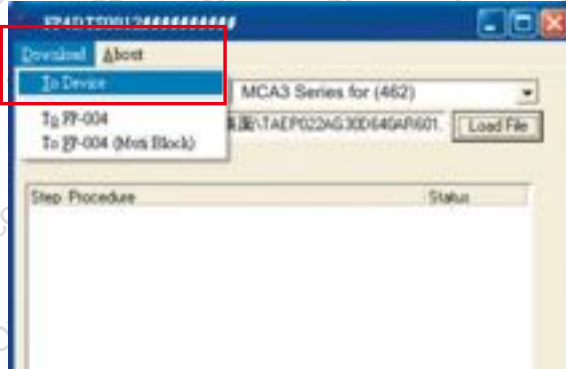
Step 5. Retrieve the firmware path.  
(Drag the firmware (hex file) into FP-004 window.)



5-3 FIG.02

# MF1-C/MF1-V

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

MF1-C/MF1-V

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MF1-CAMF1-V



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