A6 Option Switch Settings (S.T.D pulse)

Supported bill SRIs 1 1bill.

A6 dip-switch settings and functions:

FUNCTION	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW1	SW2	SW3	SW4
Reject SRIs 1	ON											
Accept SRIs 1	OFF											
Reserved		ON										
Reserved		OFF										
Reserved			ON									
Reserved			OFF									
Reserved				ON								
Reserved				OFF								
Reserved					ON							
Reserved					OFF							
Reserved						ON						
Reserved						OFF						
Harness disable							ON					
Harness enable							OFF					
Inhibit Active High								ON				
Inhibit Active Low								OFF				
1 pulse / one dollar									OFF	OFF		
2 pulse / one dollar									ON	OFF		
4 pulse / one dollar									OFF	ON		
20 pulse / one dollar									ON	ON		
Pulse Speed	50ms on / 50ms off										OFF	OFF
	60ms on / 300ms off										ON	OFF
	30ms on / 50ms off										OFF	ON
	150ms on / 150ms off										ON	ON

◈ Factory configuration has all switches in the OFF position.

Telepoint Vending Solutions
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Email: almadani1@anet.net.sa

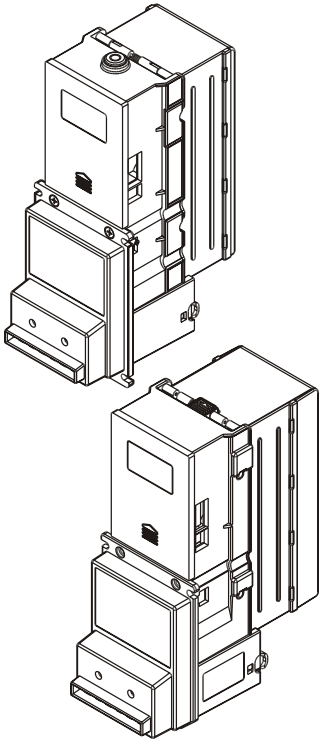
telepoint@yahoo.com

Part Number : SW0SA110
Version 1.0

Bill Validator

A6/V6 Series
Installation Guide

- 4 - Way Acceptance
- Low Maintenance
- Easy Installation
- Re - Programmable Flash ROM
- Auto Self -Adjusting Sensor System



Part Number : H4458D
Version 5.0

International Currency Technologies
43010 Osgood Rd. Fremont, CA 94539
Tel : (510) 353-0289
Fax : (510) 353-0399
E-mail : sales@ict-america.com
Website : www.ict-america.com

Contents

A6/V6 Bill Validator Specifications

Acceptance Rate

96% or greater

Bill insertion

4-way Acceptance

Acceptance Speed

Approx. 3 seconds (including bill stacking)

Interfaces

S.T. D. Pulse
M.D.B. (Multi-Drop Bus)
Multipulse

Bill box Capacity

Approx. 300 bills (200~300)
500 bills (300~500)
800 bills (750~850)

Weight

Approx. 2kg (shipping)

Power Sources

34V DC 1.5Amp (M.D.B)
12V DC 3 Amp
117V AC 0.2Amp (60HZ)
24V AC 1.5Amp (60HZ)

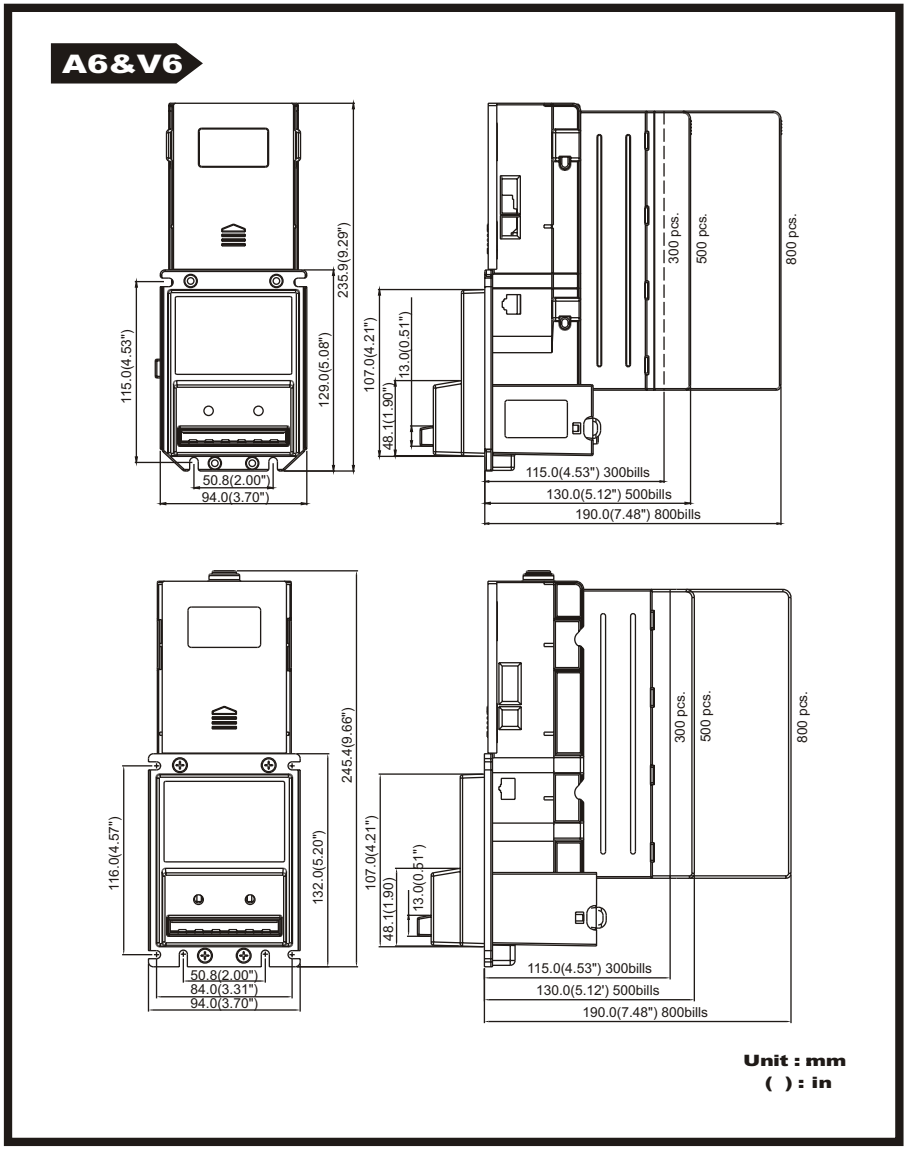
Power Consumption

Max 50 watts

Environment Range

Operating Temperature -15°C~60°C
Storage Temperature -30°C~70°C
Humidity：30%~85% RH (no condensation)

◈ **This guide contains all A6/V6 specs, but the actual machine matches only one of the specs.**



LED Display

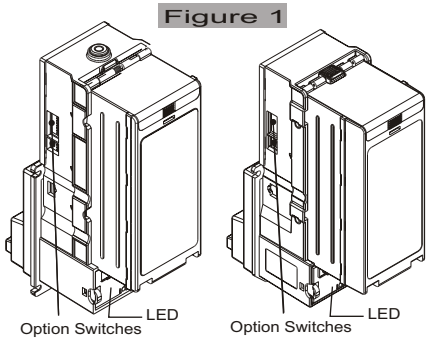
The two LED lights located at the front of the unit will show the operational status of the bill validator. The LED lights will flash ON and OFF (in 500ms intervals) when the unit is ready to accept bills. The LED lights will be OFF if the unit is disabled or out of service, in which case the unit will not accept any bills.

The bill validator can only accept one bill at a time. The LED lights will be OFF and will not accept another bill while a bill is being validated in the unit. The LED lights will start to flash normally when the bill validator is ready to accept the next bill.

LED Status

DIAGNOSTICS LED ON =OK FLASHES	〔GREEN LED〕 LED OFF =POWER OFF STATUS
1	bill jammed
2	disabled from system
3	sensor problem
4	reserved
5	bill box is removed
6	bill box is full of money

Figure 1



Note:

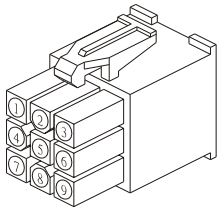
In addition to the 30-pin connector, there is also an 8-pin RJ-45 connector on the side of the bill validator designed for the purpose of downloading programs and updating validation software. The connector will be kept open under normal operation of the bill validator. It will only be used when new software or programs need to be downloaded into the flash ROM. The pin-out assignments of the 8-pin RJ-45 connector are as follows:

Pin 1 - GND	Pin 5 - /RESET
Pin 2 - TXD2	Pin 6 - VCC
Pin 3 - RXD2	Pin 7 - RXD1
Pin 4 - PROGRAM	Pin 8 - TXD1

A6 Pin-out Assignments (S.T.D. Pulse for 12V DC)

For the ***12V DC*** version of the A6 bill validator,the harness***(part no. WEL-M007)*** has a dual-in-line 30-pin peripheral connector at one end and a 9-pin mating connector at the other end. Connect the 30-pin connector to the side of the bill validator and the 9-pin mating connector to the 12V DC power cable (part no. CU-961-1, see pg. 10 for pin-out info).

◈ 9-pin mating connector pin-out assignments:



Pin 1 INHIBIT +	Pin 6 Reserved
Pin 2 INHIBIT -	Pin 7 CREDIT + (N.O.)
Pin 3 Reserved	Pin 8 CREDIT - (Common)
Pin 4 Reserved	Pin 9 GND (Power)
Pin 5 12V DC (Power)	

◈ Dual-in-line 30-pin peripheral connector (A6, 12V DC) pin-out assignments:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Pin 1 - CREDIT(-)(Common)	Pin 16 - CREDIT(+)(N.O.)
Pin 2 - 12VDC (Power)	Pin 17 - Reserved
Pin 3 - ENABLE(-)	Pin 18 - ENABLE (+)
Pin 4 - Reserved	Pin 19 - KEY
Pin 5 - INHIBIT (+)	Pin 20 - INHIBIT (-)
Pin 6 - KEY	Pin 21 - Reserved
Pin 7 - Reserved	Pin 22 - Reserved
Pin 8 - Reserved	Pin 23 - Reserved
Pin 9 - Reserved	Pin 24 - Reserved
Pin 10 - GND (Power)	Pin 25 - Reserved
Pin 11 - Reserved	Pin 26 - Reserved
Pin 12 - Reserved	Pin 27 - Reserved
Pin 13 - Reserved	Pin 28 - Reserved
Pin 14 - Reserved	Pin 29 - Reserved
Pin 15 - Reserved	Pin 30 - Reserved

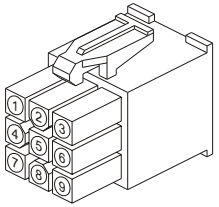
◈ **CAUTION:** Turn off the power before connecting or disconnecting the bill validator.

A6 Pin-out Assignments (S.T.D Pulse for 117V AC)

For the 117V AC version of the A6 bill validator, connect the 30-pin peripheral connector on one end of the harness (part no. WEL-M008) to the side of the unit and the 9-pin mating connector to the 117V AC power cable (WEL-M012, see pg. 12 for pin-out info).

◈ 9-pin mating connector pin-out assignments:

Pin 1 NEUTRAL INHIBIT
Pin 2 NEUTRAL ENABLE
Pin 3 HOT ENABLE
Pin 4 117VAC HOT (Power)
Pin 5 **Earth - Ground**
Pin 6 117VAC NEUTRAL(Power)
Pin 7 CREDIT RELAY (N.O.)
Pin 8 CREDIT RELAY (Common)
Pin 9 Reserved



IMPORTANT: On 117V AC units, the Earth Ground must be located inside the machine.

◈ Dual-in-line 30-pin peripheral connector (A6, 117V AC) pin-out assignments:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Pin 1 - CREDIT_ RELAY(COM)
Pin 2 - Reserved
Pin 3 - NEUTRAL ENABLE
Pin 4 - 117VAC NEUTRAL(Power)
Pin 5 - NEUTRAL INHIBIT
Pin 6 - KEY
Pin 7 - Reserved
Pin 8 - Reserved
Pin 9 - Reserved
Pin 10 - Reserved
Pin 11 - Reserved
Pin 12 - Reserved
Pin 13 - Reserved
Pin 14 - Reserved
Pin 15 - Reserved
Pin 16 - CREDIT RELAY(N.O.)
Pin 17 - Reserved
Pin 18 - HOT ENABLE
Pin 19 - KEY
Pin 20 - 117VAC HOT(Power)
Pin 21 - EARTH GROUND
Pin 22 - Reserved
Pin 23 - Reserved
Pin 24 - Reserved
Pin 25 - Reserved
Pin 26 - Reserved
Pin 27 - Reserved
Pin 28 - Reserved
Pin 29 - Reserved
Pin 30 - Reserved

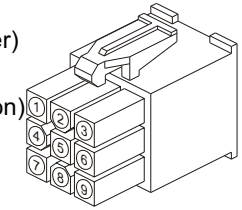
◈ **CAUTION:** Turn off the power before connecting or disconnecting the bill validator.

A6 Pin-out Assignments (Multipulse for 117V AC)

18 PIN Connector : Protocol Interface .
9 PIN Connector : Power for AC 117V + 5% .

◈ 9-pin mating connector pin-out assignments:

Pin 1 Reserved
Pin 2 Reserved
Pin 3 Reserved
Pin 4 117VAC HOT (Power)
Pin 5 Reserved
Pin 6 117VAC NEUTRAL(Power)
Pin 7 CREDIT RELAY (N.O.)
Pin 8 CREDIT RELAY (Common)
Pin 9 Reserved



◈ Dual-in-line 30-pin peripheral connector (A6, 117V AC) pin-out assignments:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Pin 1 - CREDIT_RELAY_COM
★ Pin 2 - +12V
★ Pin 3 - NEUTRAL ENABLE
Pin 4 - 117 VAC NEUTRAL(Power)
★ Pin 5 - NEUTRAL INHIBIT
★ Pin 6 - KEY
★ Pin 7 - /$1_CREDIT
Pin 8 - /INTERRUPT
★ Pin 9 - /$5_CREDIT
Pin 10 - GND
Pin 11 - /DATA
★ Pin 12 - ESCROW_HIGH
★ Pin 13 - $5_ENABLE_HIGH
★ Pin 14 - $2_ENABLE_HIGH
★ Pin 15 - $1_ENABLE_HIGH
Pin 16 - CREDIT REALY (N.O.)
★ Pin 17 - Reserved
★ Pin 18 - HOT ENABLE
★ Pin 19 - KEY
Pin 20 - 117 VAC HOT (Power)
★ Pin 21 - EARTH GROUND
Pin 22 - /OUT_OF_SERVICE
★ Pin 23 - Reserved
Pin 24 - /ACCEPT_ENABLE
★ Pin 25 - /$2_CREDIT
Pin 26 - /SEND
★ Pin 27 - $1_ENABLE_LOW
★ Pin 28 - $2_ENABLE_LOW
★ Pin 29 - $5_ENABLE_LOW
★ Pin 30 - ESCROW_LOW

《★》 NOT USED.

◈ **CAUTION:** Turn off the power before connecting or disconnecting the bill validator.

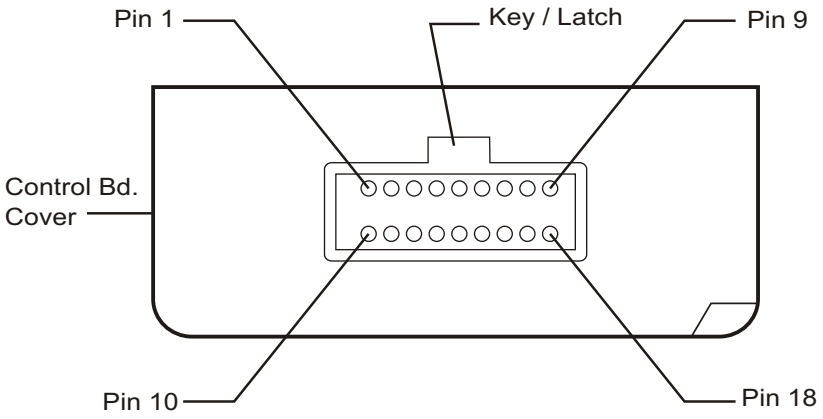
CONNECTOR

INTERFACE CONNECTOR :

◆ 18-pin mating connector pin-out assignments:

Pin 1	/ $ 1 CRETID	Pin 10	/OUT-OF-SERVICE
Pin 2	INTERRUPT	Pin 11	/DEBUG DATA
Pin 3	/ $ 5 CRETID	Pin 12	/ACCEPT ENABLE
Pin 4	GROUND	Pin 13	/$ 2 CRETID
Pin 5	/DATA	Pin 14	/SEND
Pin 6	ESCROW . High .	Pin 15	$ 1 ENABLE , Low
Pin 7	$ 5 ENABLE , High	Pin 16	$ 2 ENABLE , Low
Pin 8	$ 2 ENABLE , High	Pin 17	$ 5 ENABLE , Low
Pin 9	$ 1 ENABLE , High	Pin 18	ESCROW , Low

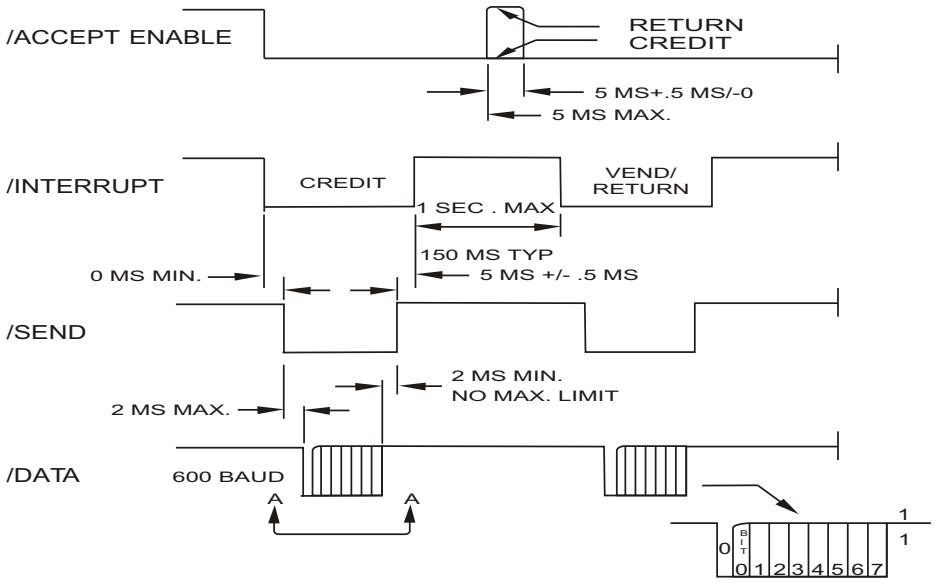
PIN LOCATIONS



SERIAL INTERFACE

DATA TRANSMISSION TIMING

SINGLE MESSAGE TRANSMISSION



SERIAL INTERFACE STATUS MASSAGE

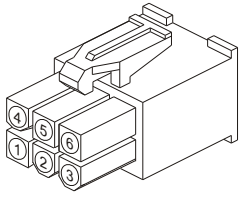
	MSB	7	6	5	4	3	2	1	0	LSB
		"1"	RESVRVED CODES			STATUS	BILL VALUE			HEX CODE
	$ 1 CREDIT	1	0	0	0	0	0	0	1	81
	RESERVED	1	0	0	0	0	0	1	0	82
	$ 5 CREDIT	1	0	0	0	0	0	1	1	83
	$ 10 CREDIT	1	0	0	0	0	1	0	0	84
	RESERVED	1	0	0	0	0	1	0	1	85
	$ 50 CREDIT	1	0	0	0	0	1	1	0	86
	RESERVED	1	0	0	0	0	1	1	1	87
	VEND	1	0	0	0	1	0	0	1	89
	RESERVED	1	0	0	0	1	0	1	0	8A
	SLUG	1	0	0	0	1	0	1	1	8B
	FAILURE	1	0	0	0	1	1	0	0	8C
*1	STACKER FULL/ STACKERLESS JAM	1	0	0	0	1	1	0	1	8D

V6 Pin-out Assignments (M.D.B. System for 34V DC)

For the MDB interface V6 bill validator, connect the 30-pin peripheral connector on one end of the harness ***(part no. WEL-M006)*** to the side of the unit and the standard 6-pin MDB connector to the power/interface connector.

◈ The standard 6-pin MDB connector pin-out assignments:

Pin 1 - 34 VDC
Pin 2 - 34 VDC Power Return
Pin 3 - N/C
Pin 4 - Master Receive
Pin 5 - Master Transmit
Pin 6 - Communications Common



◈ Dual-in-line 30-pin peripheral connector (V6, MDB) pin-out assignments:

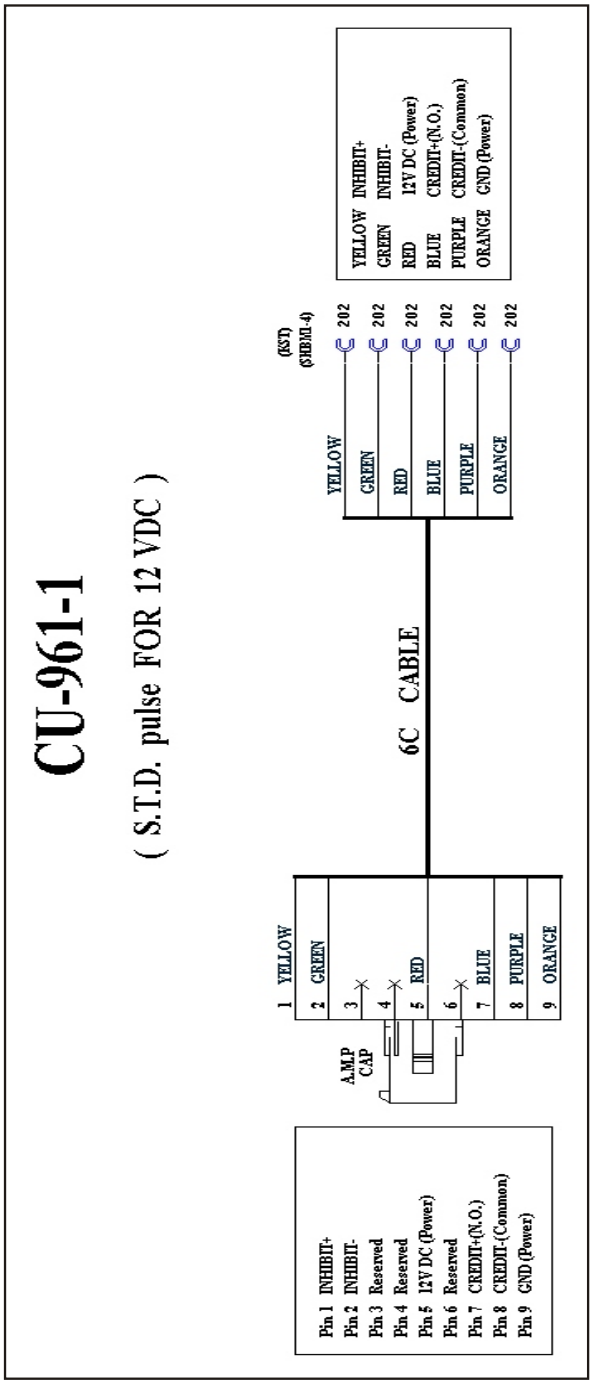
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Pin 1 - Reserved
Pin 2 - Reserved.
Pin 3 - Reserved
Pin 4 - Reserved
Pin 5 - KEY
Pin 6 - MDB_MASTER_RXD
Pin 7 - Reserved
Pin 8 - Reserved
Pin 9 - Reserved
Pin 10 - Reserved
Pin 11 - Reserved
Pin 12 - Reserved
Pin 13 - Reserved
Pin 14 - MDB_MASTER_TXD
Pin 15 - Reserved

Pin 16 - 34VDC_RETURN
Pin 17 - Reserved
Pin 18 - Reserved
Pin 19 - Reserved
Pin 20 - GND
Pin 21 - KEY
Pin 22 - Reserved
Pin 23 - MDB +34VDC
Pin 24 - Reserved
Pin 25 - Reserved
Pin 26 - Reserved
Pin 27 - Reserved
Pin 28 - MDB_GND
Pin 29 - Reserved
Pin 30 - Reserved

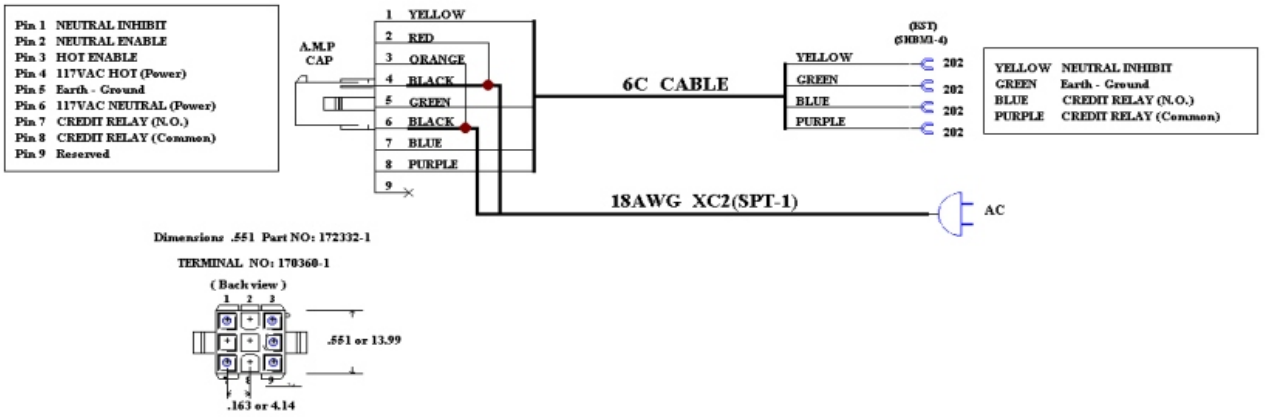
◈ **CAUTION:** Turn off the power before connecting or disconnecting the bill validator.

Cable



WEL-M010

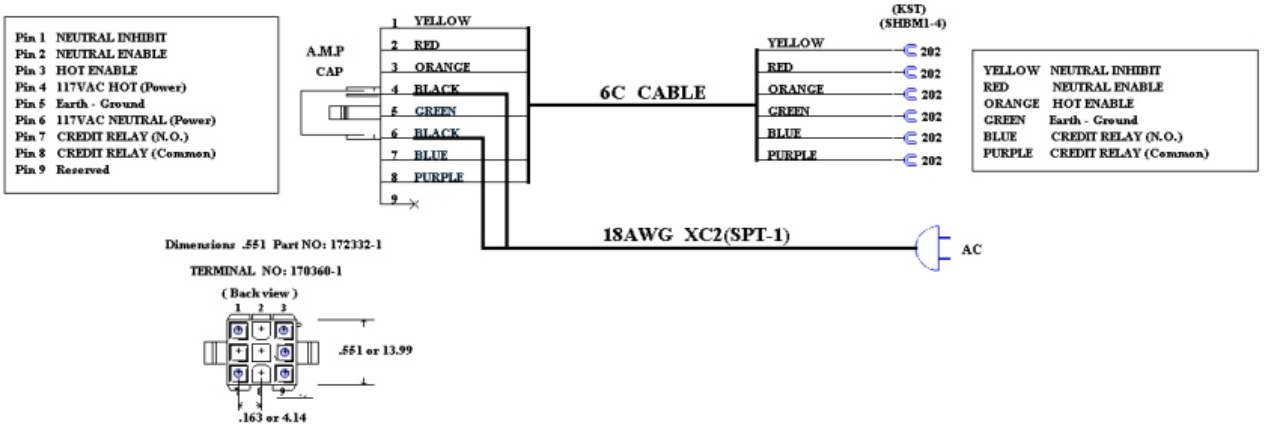
(S.T.D pulse FOR 117 VAC)



(Option)

WEL-M012

(S.T.D pulse FOR 117 VAC)



WEL-M013

(Multipulse FOR 117 VAC)