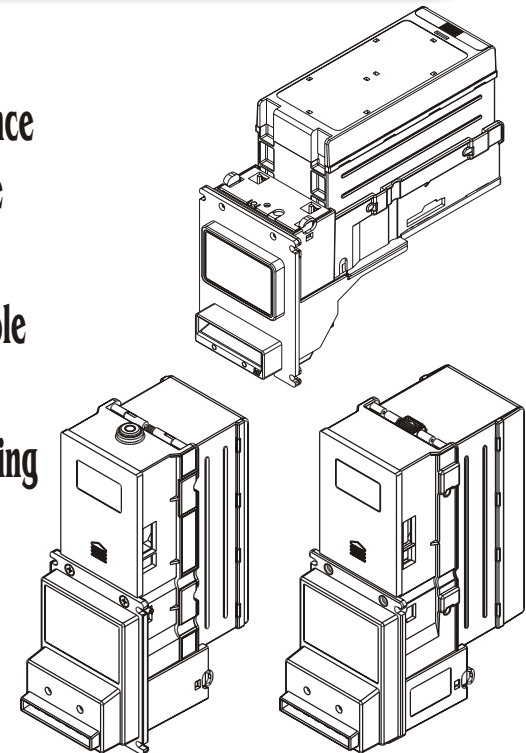


# Bill Validator

## N6 Series Installation Guide

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



## Contents

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## (1) N6 Bill Validator Specifications

### Acceptance Rate

96% or greater

### Bill insertion

4-way Acceptance

### Acceptance Speed

Approx. 3 seconds  
(including bill stacking)

### Interfaces

N.I.S.R

### Bill box Capacity

Approx. 300 bills (200~300) 3M-SBX03005  
500 bills (300~500) 3M-SBX04005  
800 bills (750~850) 3M-SBX08005

### Weight

Approx. 2kg (shipping)

### Power Sources

117V AC 0.2Amp (60HZ)

### Power Consumption

Max 50 watts

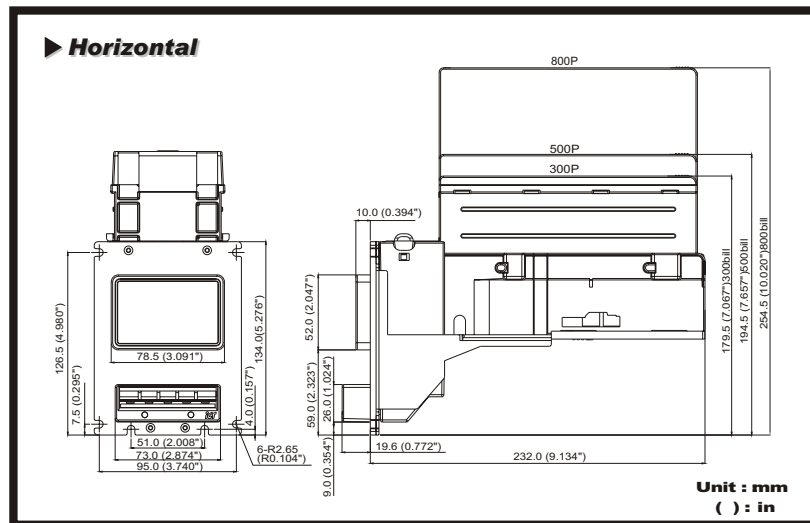
### Environment Range

Operating Temperature 0°C~55°C

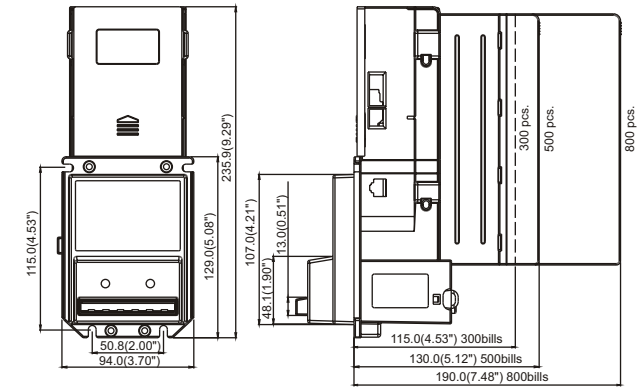
Storage Temperature -30°C~70°C

Humidity : 30%~85% RH (no condensation)

## (2) Bill Validator Dimensions

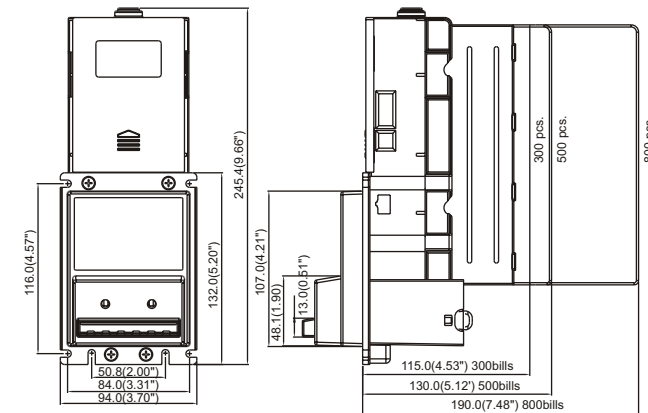


### ► Vertical (Sliding Block)



Unit : mm  
( ) : in

### (Push Button)



Unit : mm  
( ) : in

### (3) 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.

### (4) LED Status

| FLASHES | 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 |
| LED ON  | POWER ON                  |
| LED OFF | POWER OFF                 |

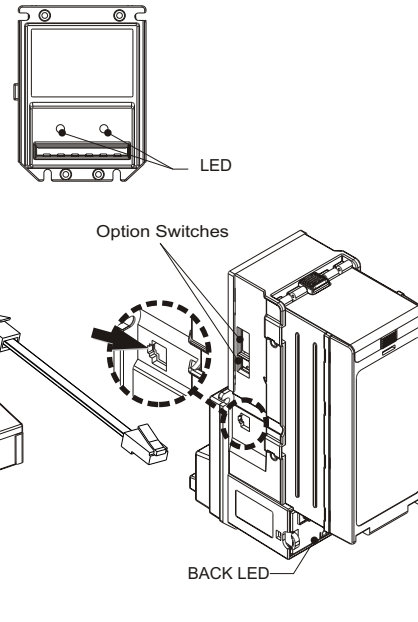
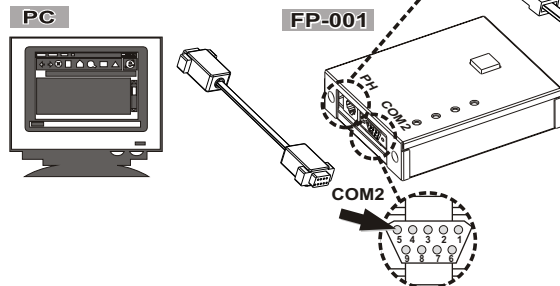


Figure 1



### (5) Download and Upgrade

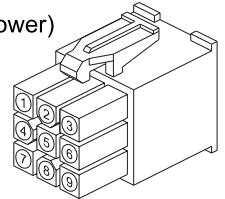
In addition to the 30-pin connector, there is also an 8-pin RJ-45 connector on the side of the bill validator designed for the purpose of downloading programs and updating validation software. The connector will be kept open under normal operation of the bill validator. It will only be used when a new software or program need to be downloaded into the flash ROM. (Figure 1)

### (6) N6 Pin-out Assignments (N.I.S.R for 117V AC)

For the 117V AC version of the N6 bill validator with NISR interface, the harness ( *part no. WEL-013*, see page.7 for pin-out information ) has a dual-in-line 30-pin peripheral connector that connects to the side of the B.A , a 9-pin mating connector for connecting to the 117V AC power harness , and a 18-pin interface connector see next page for pin-out information to connect to the controller.

#### ◆ 9-pin mating connector pin-out assignments:

|                          |                             |
|--------------------------|-----------------------------|
| Pin 1 Reserved           | Pin 6 117VAC NEUTRAL(Power) |
| Pin 2 Reserved           | Pin 7 Reserved              |
| Pin 3 Reserved           | Pin 8 Reserved              |
| Pin 4 117VAC HOT (Power) | Pin 9 Reserved              |
| Pin 5 Reserved           |                             |



#### ◆ Dual-in-line 30-pin peripheral connector (N6, 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 - Reserved                | Pin 16 - Reserved            |
| Pin 2 - DEBUG DATA OUTPUT       | Pin 17 - Reserved            |
| Pin 3 - Reserved                | Pin 18 - Reserved            |
| Pin 4 - 117V AC NEUTRAL (Power) | Pin 19 - Reserved            |
| Pin 5 - Reserved                | Pin 20 - 117V AC HOT (Power) |
| Pin 6 - Reserved                | Pin 21 - EARTH GROUND        |
| Pin 7 - Reserved                | Pin 22 - /OUT_OF_SERVICE     |
| Pin 8 - /INTERRUPT              | Pin 23 - Reserved            |
| Pin 9 - Reserved                | Pin 24 - /ACCEPT_ENABLE      |
| Pin 10 - GND                    | Pin 25 - Reserved            |
| Pin 11 - /DATA                  | Pin 26 - /SEND               |
| 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.

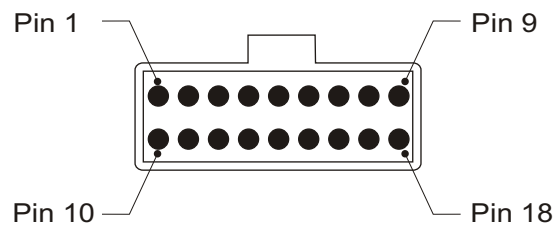
## **N.I.S.R CONNECTOR**

### **INTERFACE CONNECTOR :**

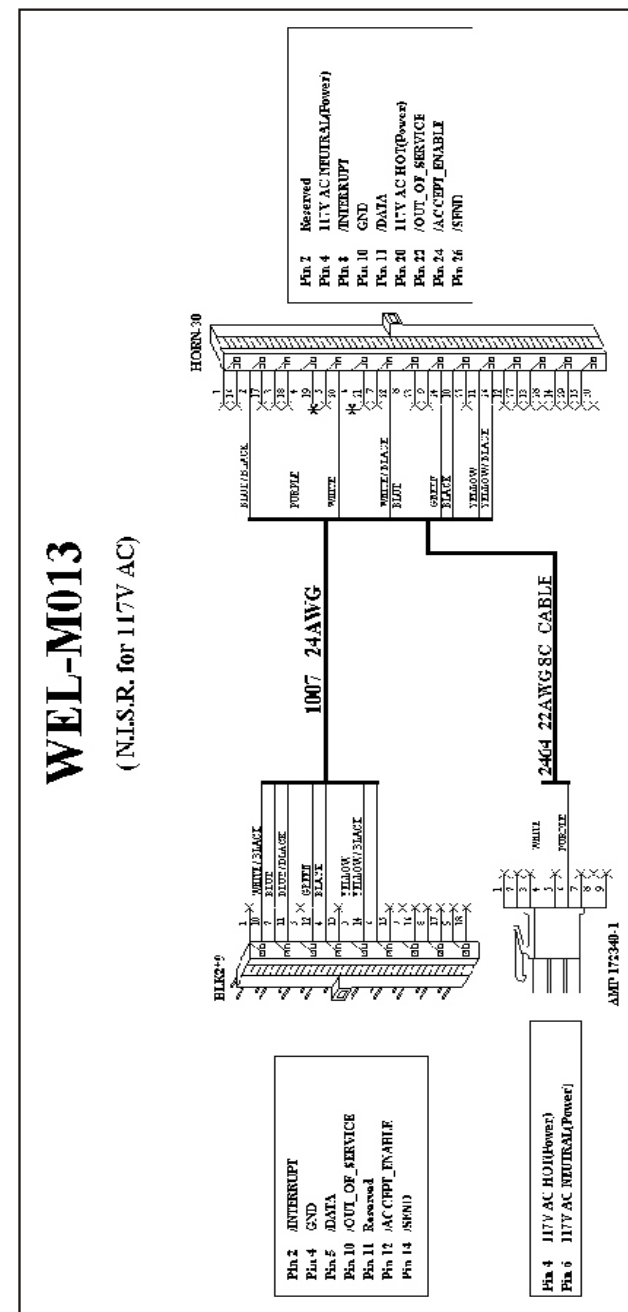
◆ 18-pin mating connector pin-out assignments:

|       |           |        |                 |
|-------|-----------|--------|-----------------|
| Pin 1 | Reserved  | Pin 10 | /OUT-OF-SERVICE |
| Pin 2 | INTERRUPT | Pin 11 | /DEBUG DATA     |
| Pin 3 | Reserved  | Pin 12 | /ACCEPT ENABLE  |
| Pin 4 | GROUND    | Pin 13 | Reserved        |
| Pin 5 | /DATA     | Pin 14 | /SEND           |
| Pin 6 | Reserved  | Pin 15 | Reserved        |
| Pin 7 | Reserved  | Pin 16 | Reserved        |
| Pin 8 | Reserved  | Pin 17 | Reserved        |
| Pin 9 | Reserved  | Pin 18 | Reserved        |

## **N.I.S.R PIN LOCATIONS**



## **(7) Cable**



# WEL-M023

(N.I.S.R. for Pa\_Lo\_GOLD)

