# BV20 and BV100 Bill Acceptor – Quick Start Guide

Standard set up on the BV20 and BV100 is a pulse interface at 50/100 mili-seconds setting at four pulses per dollar. If you require another type of interface please see the attached programming card or contact your local sales office at:

Bellis Technologies Inc.
520 Twin Rail Dr. Unit E
Minooka, IL 60447
Telephone: (815) 467-3975
Website: www.bellis-technology.com

**Electrical**

3 Wire Harness Connection (if used)
Red: 12V DC power supply (min.1.5 amp) - ± 10% DC only
Black: Ground Power Supply
Green: Credit pulse (active low) to board or coin switch.

**110 Volt A/C Option**

**Pin 2: -** 110VAC Neutral Enable (Orange Wire) When Used
**Pin 3: -** 110VAC Live Enable (Red Wire) When Used
**Pin 4: -** 110VAC Live Power (Black Wire) **85VAC** to **130VAC** supply at 50 to 60Hz.
**Pin 6: -** 110VAC Neutral Power (White Wire)
**Pin 7: -** Relay Contact (Brown Wire)
**Pin 8: -** Relay Contact (Blue Wire)

The Bill acceptor relay contacts are capable of handling a 1Amp load at 110VAC. Due to the relay contact bounce; it is recommended that the customer's software incorporate a 10mSecond software delay to debounce the relay contacts.

**Programming**

The US dataset has been set up in the following configuration:
Channel 1 = USD $1, Channel 2 = USD $5, Channel 3 = USD $10, Channel 4 = USD $20, Channel 5 = USD $50, Channel 6 = USD $100

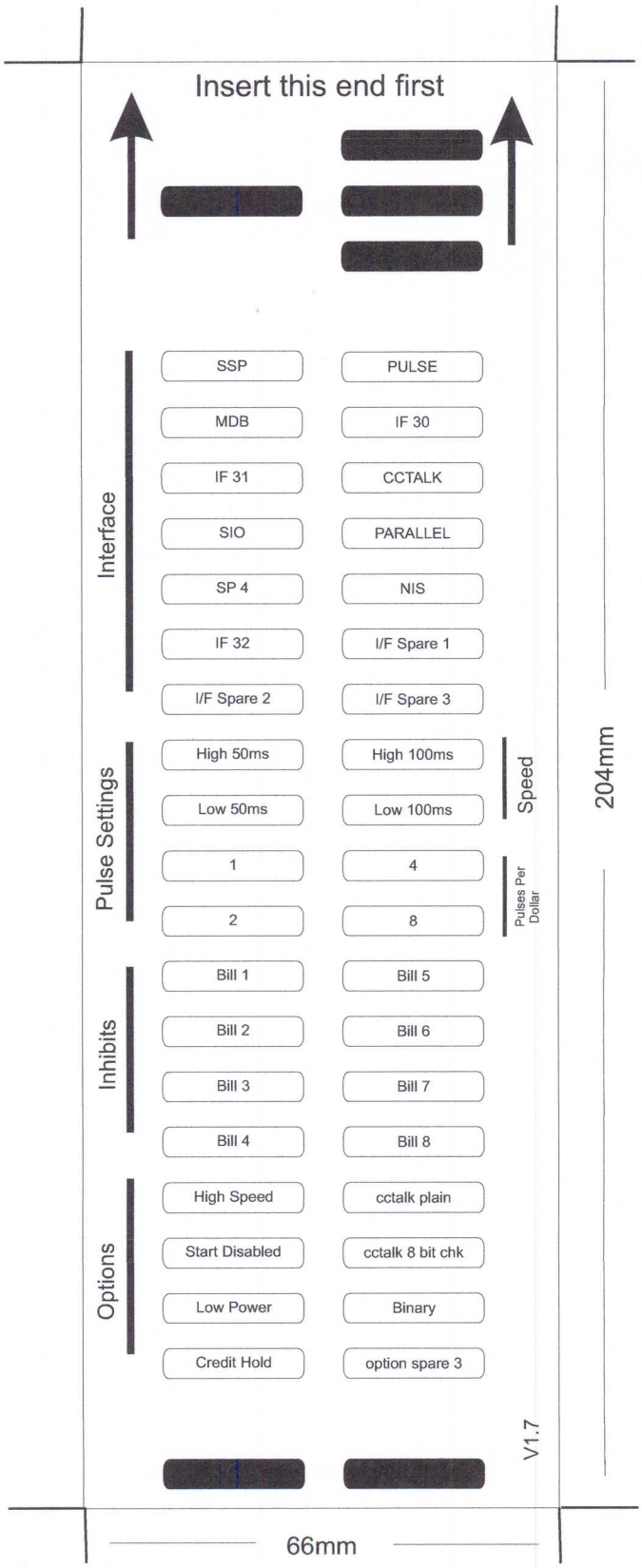
Changes to pulse speed, number of pulses per dollar, and denominations accepted can be performed by referring to the programming card instructions.

**Cleaning** interval will be determined by environment and usage.

- **NEVER** use any type of solvent based or corrosive type of cleaner on the bill path. Use of any type of alcohol based cleaner will permanently damage the acceptor.
- If the lenses have been badly scratched replacement is necessary. Do not attempt to polish out scratches.

**Fault Finding**

| Problem | Check: | Solution |
|---|---|---|
| Acceptor will not take bills: | Is Led flashing on the front of the bill acceptor?<br>No.<br><br><br><br>Yes | <br><br>Check power supply.<br>Power supply 10.5 to 15 Volts DC only minimum 1.5 amps.<br>Check for proper programming.<br>Check for necessary clearance for note ejection after acceptance. |
| Acceptor runs slowly or intermittently: | Make sure there are no foreign objects in the bill path | Clean the bill path. |
| | Check voltage level of supply | Ensure correct supply and sufficient current. |
| | Check for damage | Replace necessary components. |
| Bills pass through the acceptor but did not give credits | Is the power supply within specification? | Ensure correct supply and sufficient current.<br>Also check for necessary clearance for note ejection after acceptance. |
| Unit rejects genuine notes | Check that the unit has been programmed to accept this note. | Reprogram as necessary. |




**Instructions for use**

1 - Select correct width card for bezel. Cut card around outline - check measurements as printed. Check print options 'Page scaling' is set to 'None' when printing a pdf file to ensure correct size.

2 - Fill in sections as required. Take care to fill in the sections correctly, keep inside the lines and fill boxes fully as example below:

GOOD OK BAD

3 - Power-up BV and allow to reset.

4 - Click 'Function' button on BV to access Configuration Mode, BV bezel LEDs should be flashing at 1 second interval.

5 - Enter card into BV in direction indicated by arrows.

6 - Card will be rejected and if configuration was good the, bezel LEDs will flash at a fast rate while programming takes place. TAKE CARE TO ENSURE THE POWER IS NOT REMOVED AT THIS STAGE, THE BV MAY SUFFER PERMANENT DAMAGE !! The BV will then reset.

7 - If an error has occurred, the card will be rejected and the bezel LEDs will flash slowly a number of times to indicate the error cause. (See table below for codes).

**8 - IMPORTANT - CHECK THAT THE CONFIGURATION**

| Flash | Error |
|---|---|
| 2 | Invalid card read - card entered wrong way round, card mis-read or card wrong version. |
| 3 | No interface selection was detected on card. |
| 4 | Multiple interface selection detected. |
| 5 | Invalid interface selected - the selected interface is not available for this BV. |
| 6 | Selected interface not compatible with BV version. |
| 7 | Pulse configuration error. Selected pulse options invalid.(e.g. multiple pulse per dollar) |
| 8 | ccTalk configuration error. Selected cctalk options invalid. (cctalk 8 bit chk not allowed without ccTalk Plain.) |
| 9 | Low power mode not available on this BV version. |