

4. General Specifications:

SENSOR SET: Implementation 02

CURRENCY AND INTERFACES See Software Description document

ELECTRICAL SPECIFICATION:

Operating Voltage	Maximum Operating Current	Maximum Current
12 V DC	0.6 A	1.3 A

Use only current limiting CSA or UL recognized CLASS 2 Power Supply.

OPERATING TEMPERATURE: -0 to +50 degrees Celsius

TOTAL WEIGHT: 1.1 kg

FEATURES: Plastic Standard Bezel, Handled Bill width 70 mm

ENCLOSURE: Stackerless Bill Validator

User's Guide

Software description

Front Label

Power Harness, Part# OPT-HS-12V-06P

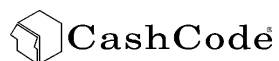
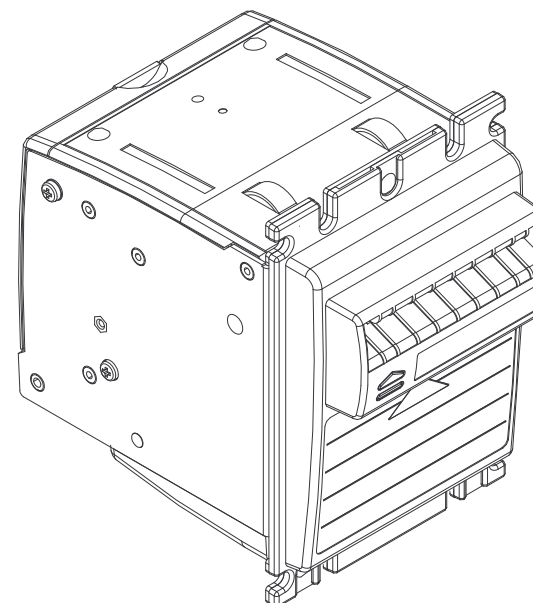
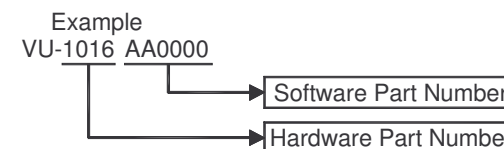


User's Guide

Stackerless Bill Validator

Hardware part # **VU-1016**

The Part Number on the Label includes Hardware Part Number and Software Part Number.



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1. DIP Switches Setting

See Software Description document.

2. Interface Connector Pinout

6 pin connector pinout

Pin	DESCRIPTION
1	+12V DC
2	GND
3	Pulse Output (NO)
4	Pulse Output Com.
5	Inhibit Line (+)
6	Inhibit Line (-)



Mating connector:

MOLEX: 15-04-5064 -1pcs; 50-57-9303 -2pcs; 16-02-0096 -6pcs;

18 pin connector pinout

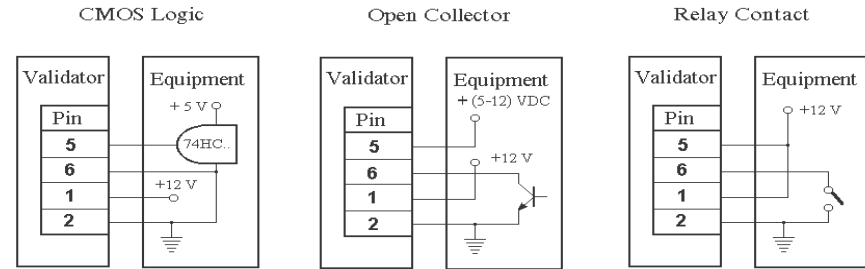
Pin	DESCRIPTION
1	Credit Pulse
2	Interrupt
3	Serial/Pulse Select
4	Common
5	Serial Data Output
6	Reserved
7	Reserved
8	Reserved
9	Reserved
10	Out of service
11	Reserved
12	Accept Enable
13	LED Power Source
14	Send
15	RXD
16	Escrow
17	TXD
18	Reserved



Mating connector:

AMP: 102398-7 - 1pcs; 102681-4 - 1pcs; 102536-7 - 1pcs;

- The Pulse Output is a bounce free N/O contact and the polarity of the output connection does not matter.
- RXD and TXD - RS-232 levels Input and Output for bi-directional Communication Protocols.
- Connection to the INHIBIT LINE depends on the machine controller lockout circuitry. See figure below:



3. Diagnostics

Count the number of flashes and compare with the diagnostic chart below:

## of flashes	Malfunction
3 red on black	Box is full (Bill left on exit rollers)
5 red on black	Failure of capacitance sensors
6 red on black	Failure of optical sensors
7 red on black	Failure of magnetic sensors
8 red on black	Transporting motor failure (timeout)
9 red on black	Speed of transporting motor is too fast
10 red on black	Failure of Aligning motor or sensor
11 red on black	Bill pathway latch is not empty (bill is jam)
1 green on red	COM port CRC Error
2 green on red	Internal CRC Error
3 green on red	Improper CCMS format
4 green on red	CCMS is absent
5 green on red	Improper type of CCMS
6 green on red	Download Error