

4. General Specifications:

SENSOR SET: Implementation 06

CURRENCY AND INTERFACES See Software Description document

ELECTRICAL SPECIFICATION:

Operating Voltage	Maximum Operating Current	Maximum Current
11V...14V DC	0.8 A	2.0 A

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

OPERATING TEMPERATURE: -18 to +60 degrees Celsius

TOTAL WEIGHT: 1.75 kg

FEATURES: Standard Plastic Bezel, Handled Bill width 62...78 mm

Outdoor application (Coated boards)

ENCLOSURE: Bill Acceptor with a Stacker

User's Guide

Software description

Accessories:

Front Label

Power Harness, Part # OPT-HS-12v-06p

User Guide

SM/MSM Bill Validator

 CashCode

Bill Validator with Stacker

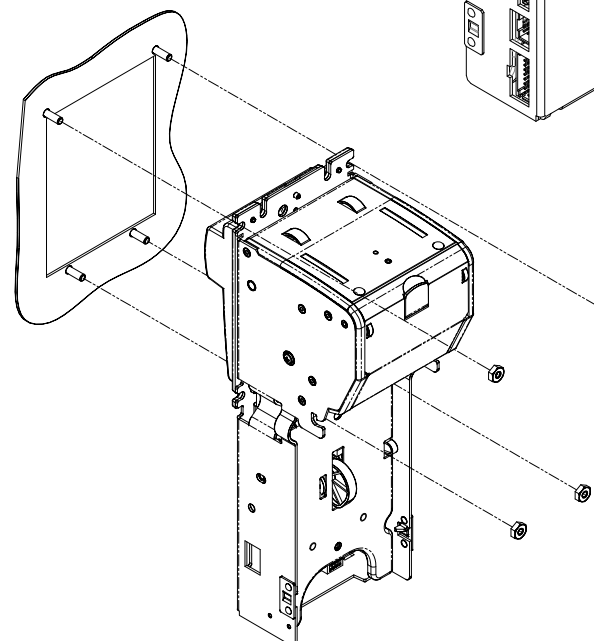
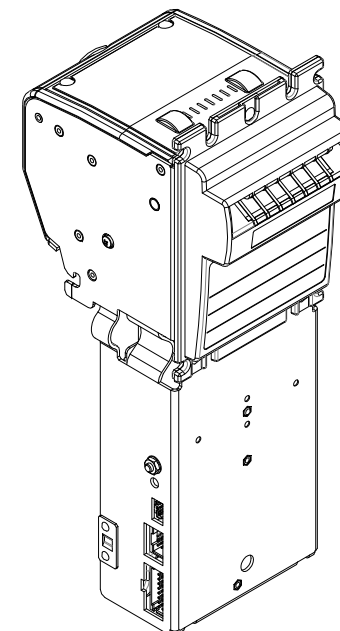
Hardware part # **MSM-3024**

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

Example
MSM-3024 AA0000

→ Software Part Number

→ Hardware Part Number



Crane Payment Solutions
CashCode Brand

2720 Steeles Avenue West, Units 2-3, Concord, ON Canada L4K 4S3
Phone: (905) 303-8874 Toll Free: (800) 584-2633 Fax: (905) 303-8875
www.craneps.com <http://support.cashcode.com>

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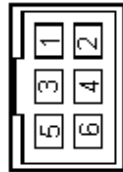
1. DIP Switches Setting

See Software Description document.

2. 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 (-)

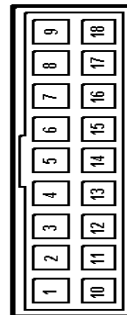


Mating connector:

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

18 pin connector pinout

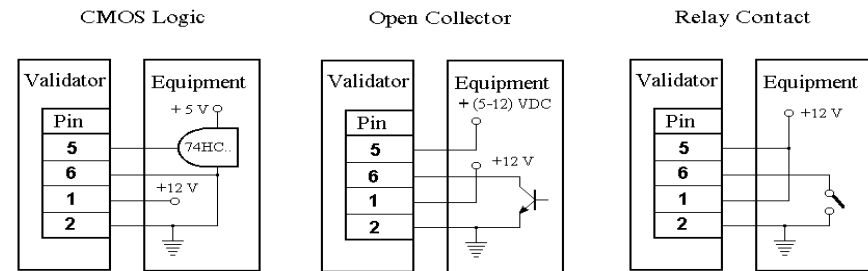
Pin	DESCRIPTION
1	Credit Pulse
2	Interrupt
3	Serial/Pulse Select
4	Common
5	Serial Data Output
6	Reserved
7	Reserved
8	Reserved
9	Reserved
10	Out of service
11	Reserved
12	Accept Enable
13	LED Power Source
14	Send
15	RXD
16	Escrow
17	TXD
18	Reserved



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
1 red on black	Cassette is removed from bill acceptor
3 red on black	Cassette is full
4 red on black	Failure of stacker mechanism
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)
10 red on black	Failure of aligning mechanism
11 red on black	Bill pathway is not empty (bill is jammed)
12 red on black	Fail rejecting a bill. Bill is in the entry slot of the cassette.
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