

## 6. General Specifications:

Currency and Protocol: See Software Description Document

Electrical Specification:

| Voltage | Max. Operating Current | Max. Current |
|---------|------------------------|--------------|
| 12 V DC | 1.0 A                  | 2.3 A        |

Use only current limiting CSA or UL approved Power Supply.

Operating Temperature: -0 to +50 Degrees Celsius

Weight: 4.2 kg (Without Cassette)

Weight of Cassette: 2.3 kg

Features: Multi-Width Validating Head  
Bracket for Optional Lock for the Cassette  
End Switch for the Cassette and Cassette Lock  
Runway Lights Bezel

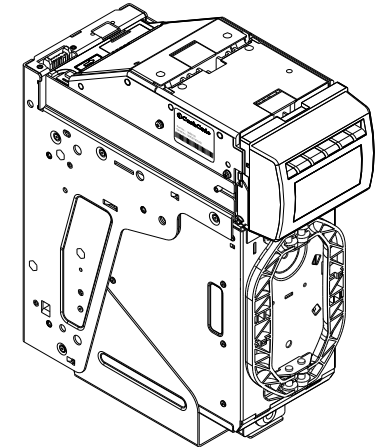
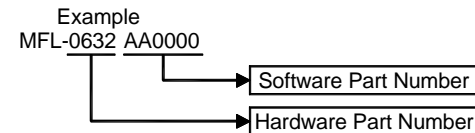
Items Enclosed: MFL Bill Validator  
User Guide  
Software Description  
JAE Connector Kit OPT-MKFL-JAE  
Lock Installation Kit OPT-MKFL-FLH1

Optional: Sensor Box Extractor OPT-HW-FT01

## Front Load Bill Validator

# MFL-0264

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



## 1. Assembly Contents:

| Unit            | Part No.               | Description                                    |
|-----------------|------------------------|------------------------------------------------|
| Validating Head | MFLV-9013              | With Multi-Width Centering Mechanism           |
| Sense -A- Click | FLS-1707U<br>FLS-1707L | Sense-A-Click Sensor Packs                     |
| Bezel           | MFLB-4017              | Bezel with Runway Lights                       |
| Housing         | FLH-3510               | 1000, Lock Bracket, Cassette and Lock Switches |
| Power Interface | FLP-2510               | 12 V DC, RS-232                                |

## 2. DIP Switch Setting:

DIP switches may be accessed by removing the Validating Head and opening the transparent cover at the rear. See Software Description for correct denominations and settings.

| SW No.1 | ON State           | OFF State           | Default |
|---------|--------------------|---------------------|---------|
| SW 1.1  | Bill Type 1 Enable | Bill Type 1 Disable | ON      |
| SW 1.2  | Bill Type 2 Enable | Bill Type 2 Disable | ON      |
| SW 1.3  | Bill Type 3 Enable | Bill Type 3 Disable | ON      |
| SW 1.4  | Bill Type 4 Enable | Bill Type 4 Disable | ON      |
| SW 1.5  | Bill Type 5 Enable | Bill Type 5 Disable | ON      |
| SW 1.6  | Bill Type 6 Enable | Bill Type 6 Disable | ON      |
| SW 1.7  | Bill Type 7 Enable | Bill Type 7 Disable | ON      |
| SW 1.8  | Bill Type 8 Enable | Bill Type 8 Disable | ON      |

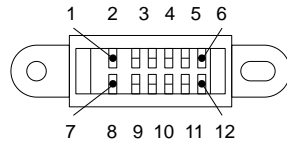
| SW No.2 | ON State | OFF State          | Default |
|---------|----------|--------------------|---------|
| SW 2.1  | Four Way | One Way            | ON      |
| SW 2.2  | Reserved | Reserved           | ON      |
| SW 2.3  | Reserved | Reserved           | ON      |
| SW 2.4  | Service  | Host Communication | OFF     |

## 3. Interface Connector Pinout:

Mating Connector:

Socket DR-12-2SC-FO (JAE)

Contact DR-SC20-1-7000 (JAE)



| Terminal | Circuit  |
|----------|----------|
| 1        | +12 V DC |
| 2        | M - RES  |
| 3        |          |
| 4        | COMM GND |
| 5        |          |
| 6        |          |
| 7        | PWR GND  |
| 8        | TxD      |
| 9        | RxD      |
| 10       |          |
| 11       |          |
| 12       |          |

## 4. Diagnostics:

Chart below lists the validator malfunctions, as indicated by the flashing bezel light:

| No. of Consecutive Flashes | Malfunction                                                |
|----------------------------|------------------------------------------------------------|
| 1 Red/ Pause               | Cassette is out of position                                |
| 2 Red/ Pause               | Wrong Sense-A-Click type or Sense-A-Click failed           |
| 3 Red/ Pause               | Cassette is full                                           |
| 4 Red/ Pause               | Jam in the Cassette (Stacking Motor cannot stack the bill) |
| 5 Red/ Pause               | Failure of Capacitance Sensors                             |
| 6 Red/ Pause               | Failure of Optical Sensors                                 |
| 7 Red/ Pause               | Failure of Magnetic Sensors                                |
| 8 Red/ Pause               | Transport Motor failure                                    |
| 9 Red/ Pause               | Speed of Transport Motor is fast                           |
| 10 Red/ Pause              | Failure of Aligning Motor or Aligning Sensor               |
| 11 Red/ Pause              | Bill Pathway is not empty (bill is jammed)                 |
| 12 Red/ Pause              | Jam at the entry of the Cashbox and credit is not issued   |
| 13 Red/ Pause              | Transport Motor overload                                   |
| 1 Green/ Red               | COM Port CRC error                                         |
| 2 Green/ Red               | Internal CRC error                                         |
| 3 Green/ Red               | Improper Memory Stick                                      |
| 4 Green/ Red               | Memory Stick is absent                                     |
| 5 Green/ Red               | Improper type of Memory Stick                              |
| 6 Green/ Red               | Download error                                             |

## 5. Bezel Installation:

1. Switch power off or disconnect power-interface cable.
2. Do not touch electrical connectors or cables without using proper electrostatic protection.
3. Install the spring 510900-01 in proper orientation.

