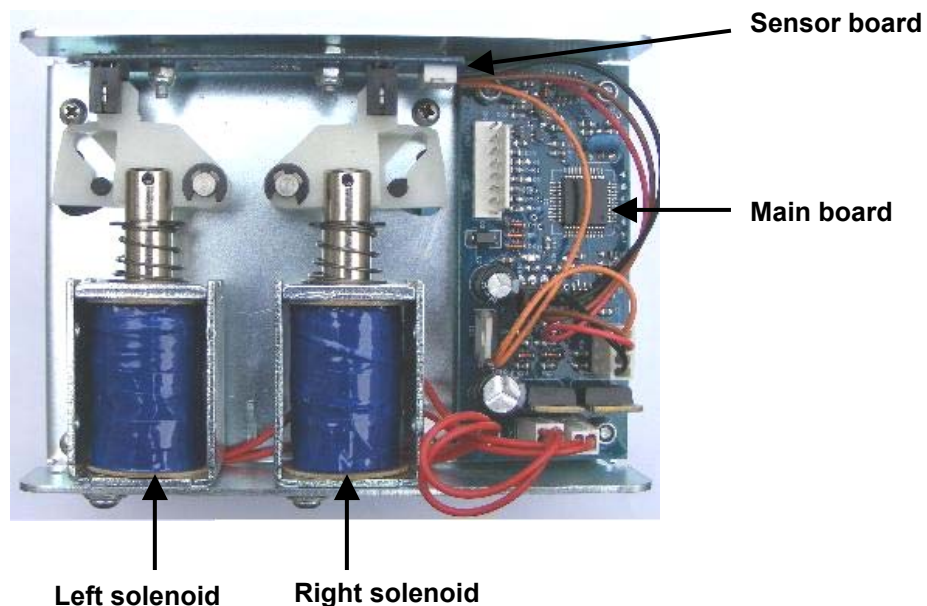


Coin Escrow

Technical manual

1. Introduction

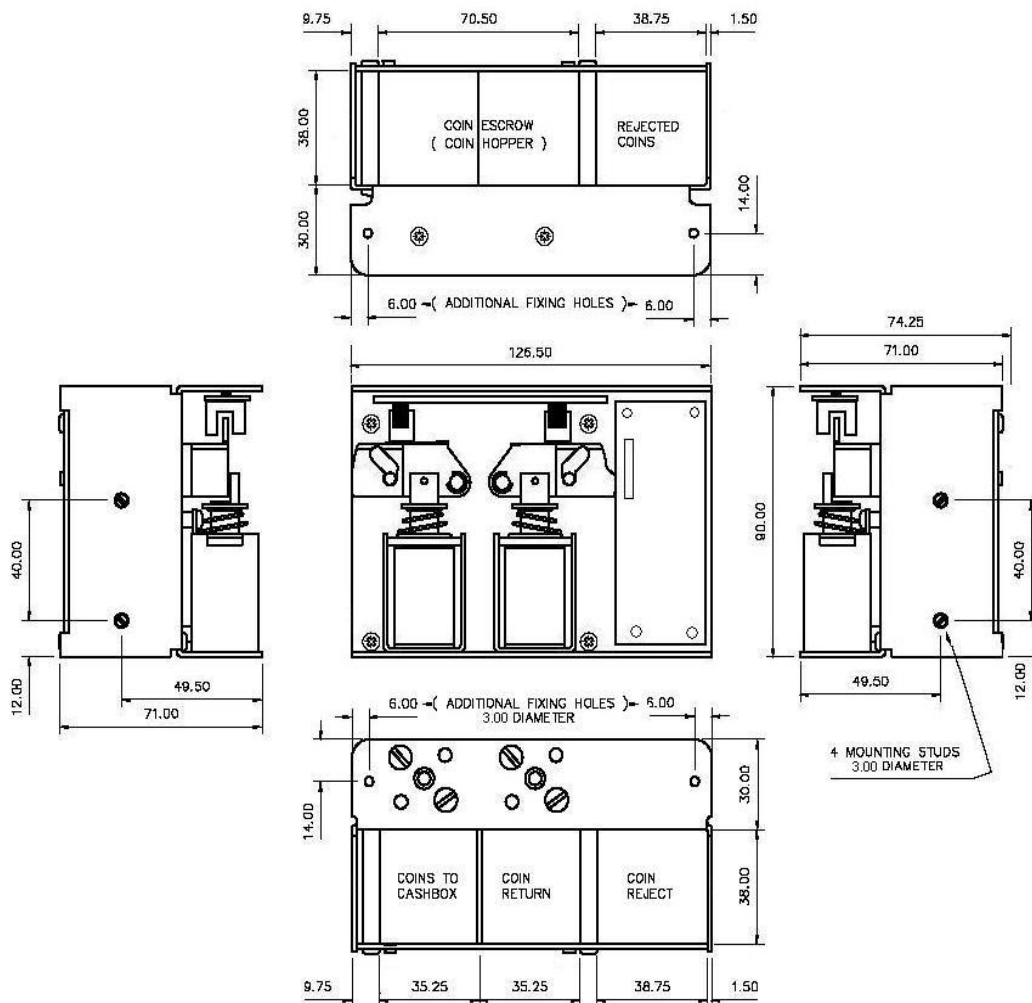
- ◆ **1.1** The coin escrow is designed for Kiosk, Ticketing machine, Bus farebox, Automatic car parking, Vending machine and so on.
- ◆ **1.2** The coin escrow is a device, which holds coins accepted by the coin validator(SR3, SR5i) then routes the coins into one of two paths under the control of the host machine. It has two coin entry positions and two coin exit positions.
- ◆ **1.3** The rejected coins pass straight through the escrow, from reject entry to reject exit without any interference from the host machine. Accepted coins enter the escrow via the accept entry position. The coins remain in the escrow until the host machine activates one of the two solenoids allowing the coins to fall through either the cashbox or reject exit positions.
- ◆ **1.4** The escrow contains two PCBs, one is sensor board and one is main board that includes an 8-pin connector (ccTalk interface). The host machine controls the operation via the 8-pin connector.



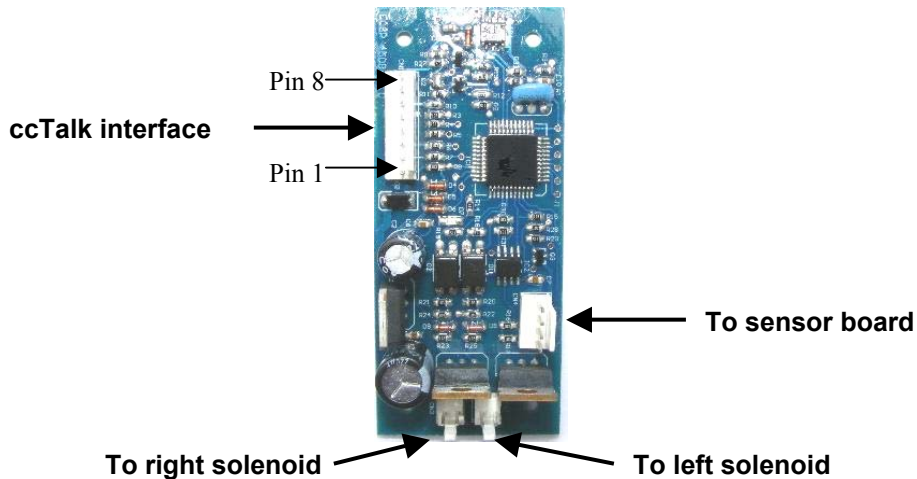
2. Specification

Protocol	CcTalk 24VDC
Coin Capacity:	30 coins (US 25cent)
Physical Dimensions	Height: 90mm Width: 126.5mm Depth: 71mm
Storage Temperature:	- 55 to 85 Degrees Celsius
Operating Temperature:	- 20 to 60 Degrees Celsius
Relative Humidity:	20% to 98% no condensing
Operating Attitude:	Vertical ± 3 degrees
Shipping Weight:	Approximately 0.8 kg

3. Overall Dimensions



4. Connector Details



- ◆ **4.1** The coin escrow uses ccTalk interface with an 8-pin connector. 2.54mm(0.1-inch) pitch 8 way with locking wall. Operation can be achieved with just 3 wires. +24V to pin 4. GND to pin 6. Bi-directional serial data line to pin 8.

- ◆ **4.2** ccTalk connector pin-out

Pin	Function
1	Address select 3
2	Address select 2
3	Address select 1
4	+Vs
5	+Vs
6	0V
7	0V
8	DATA(ccTalk)

- ◆ **4.3** The default ccTalk bus address for coin escrow device is 83. This is the address of the coin escrow if no connections are made to the address select pins (pins 1 to 3) on the connector.

Address Select 3	Address Select 2	Address Select 1	Serial Address
			83
		X	84
	X		85
	X	X	86
X			87
X		X	88
X	X		89
X	X	X	90

X=connect to +Vs

5. Communicate with PC

- ◆ **5.1** There is an Indicate LED on main board.
Green solid: normal operation, coin escrow is idle.
Green flash: coin escrow is busy.
Green off: coin escrow is faulty

- ◆ **5.2** command format: 9600bps, 1,8,1, no parity.

- ◆ **5.3** The following shows the minimum command set needed to use the coin escrow. We will assume that the coin escrow is on address 83(Hex 53)

Command	Send	Return
Simple Poll	TX=53 00 01 FE AE	RX=01 00 53 00 AC
Left solenoid actuate	TX=53 00 01 DF CD	RX=01 00 53 00 AC
Right solenoid actuate	TX=53 00 01 E0 CC	RX=01 00 53 00 AC
Request total solenoid actuate counter	TX=53 00 01 A8 04	RX=01 03 53 00 B2 01 00 F6

- ◆ **5.4** Below return codes are specific to coin escrow after a actuate command.

01 00 53 FA B2	The door be opened but not be closed within 1.5 second
01 00 53 FB B1	The door do not be opened
01 00 53 FC B0	The door has opened before receive the actuate command

- ◆ **5.4** Note: Time space of each solenoid actuate command is 4 second.