



MULTI-COIN SELECTOR

HI-09UCS / HI-09FCS FOR EURO COIN

(Drop inserting type) (Front inserting type) V2.9 (500)



Feature

- *Support 8 channels (coins) self-programming without PC.
- *With an inhibit wire for game board.
- *With 6 ch. Parallel output for each channel (coin) control.
- *Support one coin then multi pulse output (impulse out ratio).
- *With narrow or wide impulse width select (100ms and 50ms).
- *Adjustable 4 kinds of coin thickness.

Specifications:

Parameter	Specifications						
Power	Input	DC 10~15V, 300mA max standby 50mA.					
	Consumption	5.0 Watts max standby 0.6 watts.					
Signals	Impulse	Output	Multi pulse (normal "High" level)				
	Inhibit	Input	High enable(+3v~+15v)				
	Out1~6	Output	1 pulse/coin				
Connector	Con2	Input/output	4 pin male	Extend connect port			
	Con3	Input/output	09FCS 5 pin male	General I/O port			
	Con5	Input/output	09UCS 6 pin male	General I/O port			
User controls	5-ch dip-switch	Sw1, sw2, sw3 for channel or impulse ratio select. Sw4, sw5 for mode and other function select.					
Overall Dimension (HXWXD)	HI-09UCS: 102x99x55 mm HI-09FCS: 124.5x120.5x64.5 mm						
Speed of acceptable	Max. 3 coins/second.						
Coin size (mm)	Diameter	18mm~30mm					
	Thickness Adjust	Position	1.8	2.2	2.6	3	
		Thickness Range	1.2~2.0	1.2~2.4	1.2~2.8	1.2~3.0	
Working temperature	5° ~50°						
Weight	HI-09UCS: 240g						
	HI-09FCS: 300g						

Operation mode: Before switching on the dc power, Set DIP 4, DIP 5 to the "OFF" position.

Impulse and channel ratio table (500)

DIP3, DIP2, DIP1	Multi coin mode								Out
	XXX	XXO	XOX	XOO	OOX	OXO	OOX	OOO	
	Ratio				Ratio				
Channel(Coin)	1	2	3	4	5	6	7	8	
1 XXX	1/2	1/4	1	1	1/2	1/2	1/2	1/4	1
2 XXO	1	1/2	1	1	1	1	1	1/2	2
3 XOX 50C	1	1/2	2	2	1	3	2	1+1/2	3
4 XOO 1\$	2	1	4	2	2	5+1	4+1	2+1	4
5 OOX 2\$	4	2	8	4	4+1	10+2	5+1	4+2	5
6 OXO	5	2	8	4	NA	NA	8+2	5+2	6
7 OOX	8	4	10	10	NA	NA	10+2	NA	6
8 OOO	10	5	10	10	NA	NA	NA	NA	6

• DIP SW "X" means off, "O" means on

Accessory

- HI-09UCS or HI-09FCS X1
- Control board (pcb-09-2) X1
- 10p Signal cable X1
- User manual X1
- Screw bag (HI-09FCS only) X1
- 5P (09F) or 6P (09U) Signal wire X 1

Installation

Case 1:

Using 10p signal cable connect HI-09UCS/HI-09FCS to control board (pcb-09-2). And need 4 wires connect control board (pcb-09-2) to game board.

The 4 wires define as below:

1. +12V: for dc power (12 volt).
2. GND: for dc power (ground).
3. IMPULSE: for credit signal (output signal).
4. INHIBIT: control by game board for enable or disable coin selector (input).

Case 2:

Using 5P or 6P signal wire connect to HI-09UCS/HI-09FCS another end connect to game board and meter.

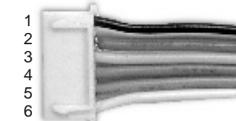
The 5P wire define as below (HI-09FCS only)

1. +12V
2. Counter (Meter)
3. GND
4. Impulse (Credit)
5. Inhibit



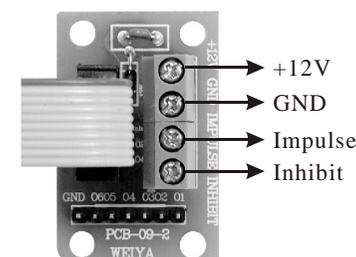
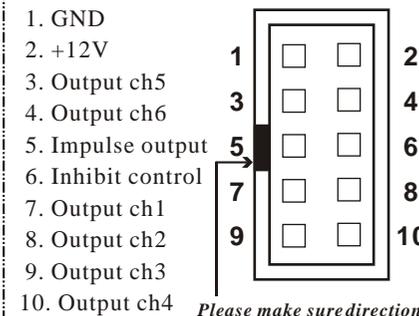
The 6P wire define as below (HI-09UCS only)

1. GND
2. +12V
3. +12V
4. Counter (Meter)
5. Impulse (Credit)
6. Inhibit



Record mode: Before switching on the dc power, set DIP 4, DIP 5 to the "ON" position.

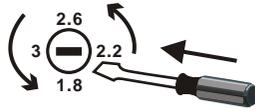
DIP SW	Function	Select	Action
DIP Sw4	Coin signal width (impulse)	X	Record 50ms impulse
		O	Record 100ms impulse
DIP Sw5	Blank	O	Normal
		O->X->O	Makes channel data Blank



HI-09UCS / HI-09FCS TECHNICAL BOOKLET

THICKNESS ADJUSTMENT

If you need to adjust the thickness of coins to be accepted, just use a small slotted screwdriver, plug into the slot and rotate to fit the thickness you want.



RECORD MODE

If you want to enter the record mode, set DIP4, DIP5 of the DIP SWITCH to "ON" positions. Then turn on the power.



SELECT OUTPUT PULSE WIDTH

If you want to appoint the pulse width (50ms or 100ms, default setting is 100ms), you must enter the "RECORD MODE" first. Then set DIP4 to the following position.

1.50ms: DIP4 to "OFF"

2.100ms: DIP4 to "ON"



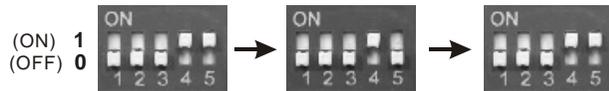
After appointing the pulse width. Enter the "MEMORIZE COINS" item to begin memorizing the coins.

CLEAR RECORD FOR SINGLE CHANNEL

The multi coin selector has 8 channels to record. Its 8 channels represent it can record 8 kinds of coins separately. If you want to clear a channel, please proceed as follows:

Steps	Channel 1 (Coin 1)	Channel 2 (Coin 2)	Channel 3 (Coin 3)	Channel 4 (Coin 4)	Channel 5 (Coin 5)	Channel 6 (Coin 6)	Channel 7 (Coin 7)	Channel 8 (Coin 8)
A	00011	10011	01011	11011	00111	10111	01111	11111
B	Switch on							
C	00010	10010	01010	11010	00110	10110	01110	11110
D	00011	10011	01011	11011	00111	10111	01111	11111
	OK							

Turn off the power for the next operation as soon as steps A,B,C,D is complete.



MEMORIZE COINS

- You must enter the "RECORD MODE" first. Then make sure which channel you want to save by setting DIP1, DIP2, DIP3 to the appropriate positions. Then insert 10 coins of the same currency and makings. The coin selector magnet will operate three times to indicate a correct operation. Then be sure to turn the power off for the next operation.
- If another different coins is necessary to memorize, please repeat the operation above- mentioned again.
- If some channels of the set were memorized some time ago, please clear the records for all channels first.

Steps	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8
A	00011	10011	01011	11011	00111	10111	01111	11111
B	Coin 1 Insert 10 coins	Coin 2 Insert 10 coins	Coin 3 Insert 10 coins	Coin 4 Insert 10 coins	Coin 5 Insert 10 coins	Coin 6 Insert 10 coins	Coin 7 Insert 10 coins	Coin 8 Insert 10 coins
C	3 clicks							
D	Switch off							

RATIO LIST CHOICES

- Under "OPERATION MODE", the switch DIP3, DIP2, DIP1 positions are assigned to 8 ratio lists.
- Under "RECORD MODE", the switch DIP3, DIP2, DIP1 positions are assigned to 8 coin channels.

Operation Mode		List 1	List 2	List 3	List 4	List 5	List 6	List 7	List 8	Other Output Terminal
		Pulse Output Count	00000	10000	01000	11000	00100	10100	01100	11100
8 kinds of coins simultaneously	Coin 1	1/2	1/4	1	1	1/2	1/2	1/2	1/4	Output ch1
	Coin 2	1	1/2	1	1	1	1	1	1/2	Output ch2
	Coin 3	1	1/2	2	2	1	3	2	2/3	Output ch3
	Coin 4	2	1	4	2	2	6	5	3	Output ch4
	Coin 5	4	2	8	4	5	12	6	6	Output ch5
	Coin 6	5	2	8	4	NA	NA	10	7	Output ch6
	Coin 7	8	4	10	10	NA	NA	12	NA	Output ch6
	Coin 8	10	5	10	10	NA	NA	NA	NA	Output ch6

- Insert one coin of the first kind, the value "1/2" will be memorized in the set. Then insert one coin of the first kind again, the new value "1/2" will be added to the previous "1/2", hence the set outputs "1" pulse. To this analogizes. Insert one coin of the 8th kind, the set outputs "10" pulses.
- The pulses generated above-mentioned output via "IMPULSE" from the control board (pcb-09-2). Besides, one coin being inserted will outputs "one" pulse via "output ch" corresponded to its coin channel (see Impulse and channel ratio table). For example: Under "channel 5" with "ratio list 3". Insert one coin will result in outputting 8 pulses via "IMPULSE" from the control board, and outputting 1 pulse via "output ch5" simultaneously.

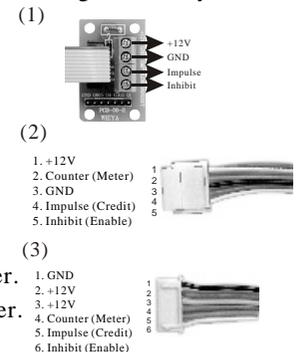
※If the ratio table can't meet customer requirements, please contact the original factory.

OPERATION MODE

- Set DIP4, DIP5 to the "OFF" position when the power is off.
- Turn on the power, and set the DIP3, DIP2, DIP1 positions to correspond the ratio list you need.
- Now you can start using the multi coin selector.

THREE OUTPUT INTERFACE

- 10p signal cable + control board for HI-09FCS/HI-09UCS
- 5p signal wire use for HI-09FCS connecting to game board and meter.
- 6p signal wire use for HI-09UCS connecting to game board and meter.



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