MULTI-COIN SELECTOR
HI-09UCS/HI-09FCS

Feature

-Support 8 chanenels(coins) self-programming without PC.
-With an inhibit wire gor game board.
-With 6ch. Parallel output for each channel(coin) control.
-Support one coin then multi pulse output(impulse out ratio).
-With narrow or wide impulse select(set sw4 on record mode).
-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: 124.5x120.5x64.5mm					
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					

Multi coin mode: Before switching on the dc power, put DIP-SW4 and SW5 on "OFF" position.

Impulse and channel ratio table

	Multi coin mode								Out
Sw3-1	XXX	XXO	XOX	XOO	OXX	OXO	OOX	OOO	
Ratio / Channel(Coin)	Impulse out Ratio				Impulse out Ratio (bonus)				
	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 OXX 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

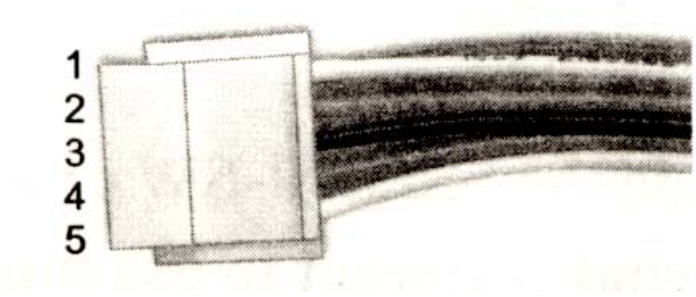
• DIP SW "X" means off , "O" means on

Accessory

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

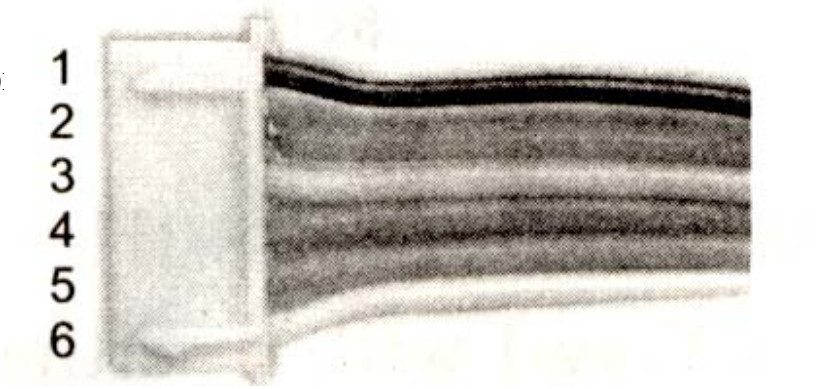
Installation
Case 1:
Using 10p signal wire connect HI-09UCS/HI-09FCS to control board(pcb-09-2).And need 4 wires connect control board(pcb-09-2) to game board.
The 4 wires define as below:
1.+12V:for dc power(12 voltage).
2.GND:for dc power(ground).
3.IMPULSE:for credit signal(output signal).
4.INHIBIT:control 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



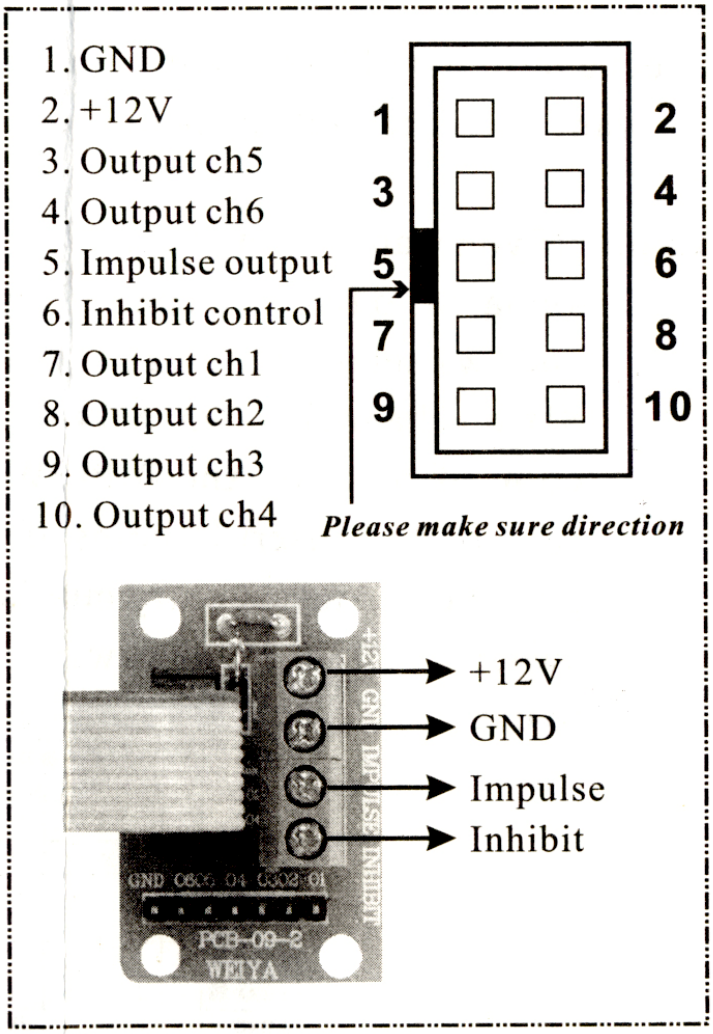
The 5P wire define as below(HI-09FCS o

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



Record mode: Before witching on the dc power, put DIP-SW 4 and SW5 on “ON” position.

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

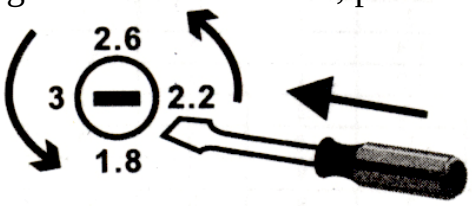


HI-09UCS / HI-09FCS TECHNICAL BOOKLET

BEFORE PROGRAMMING:

1. Select 10 samples of each different coin type to be accepted.Use a variety of years mints to create an accurate representation of each coin.
2. The lowest denomination of coins to be accepted will be the base value of all the others and will equal one or other ratio output pulse for the HI-09UCS/HI-09FCS.

-If you want to adjust accaptable coin thickness just using crew driver into slot, push screw driver then scew to set the thickness position.



3. Select a ratio list of 8 kinds of ratio table.Then make sure the channel what you want to record.Select channel or ratio list by 5ch DIP-SW of the sw3~sw1.

Example: If you want select 50 cent ->2 credit signal and 1 dollar->4 credit signal ratio list, you can set impulse out ratio on ratio 3 position(sw3 and sw1 set off and sw2 set on). And then entry record mode set DIP-SW on channel 3(sw3 and sw1 set off and sw 2 set on). And insert 10 coins of 50 cent.And DIP-SW set channel 4(sw3 set off and sw1,sw2 set on).And insert 10 coins of 1 dollar.If you setting finished,switch power off.And set entry multi coin mode and using ratio 3(sw1,sw3,sw4,sw5 all set off and sw2 set on).The HI-09UCS/Hı-09FCS is ready to use

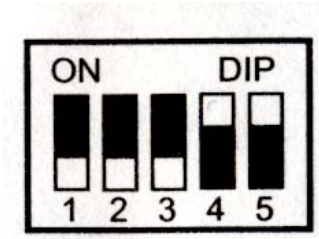
Multi coin mode									Out
Sw3-1	XXX	XXO	XOX	XOO	OXX	OXO	OOX	OOO	
Ratio / Channel	Impulse out Ratio				Impulse out Ratio(bonus)				
	1	2	3	4	5	6	7	8	
1 XXX	1/2	1/4	1	1	1/2	1/2	1/2	1/4	1
2 XXO	1	1/2	1	1	1	1	1	1/2	2
3 XOX 50C	1	1/2	2	2	1	3	2	1+1/2	3
4 XOO 1$	2	1	4	2	2	5+1	4+1	2+1	4
5 OXX 2$	4	2	8	4	4+1	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

4. When HI-09UCS/HI-09FCS on the record mode the 5 ch DIP-SW of the sw3~sw1 will be setting channel what you select want to record.
5. When HI-09UCS/HI-09FCS on the multi-coin mode the 5ch DIP-SW of the sw3~sw1 will be setting impulse output ratio list what you want to use this ratio list.
6. The HI-09UCS/HI-09FCS is designed to accept up to 8 different coins.
7. Once programmed, the HI-09UCS/HI-09FCS will hold its program even when power is removed.

NOTE: The HI-09UCS/HI09/FCS must be installed in the equipment being used to ensure proper programming.

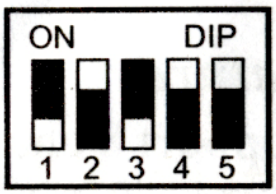
Programming Instructions:



8. Before switching on the dc power, put 5ch DIP-SW of the sw4 and sw5 on “on” position.

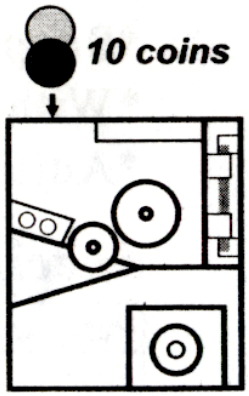
9. Apply dc power to the HI-09UCS/HI-09FCS and wait 10 seconds for the unit to stabilize.

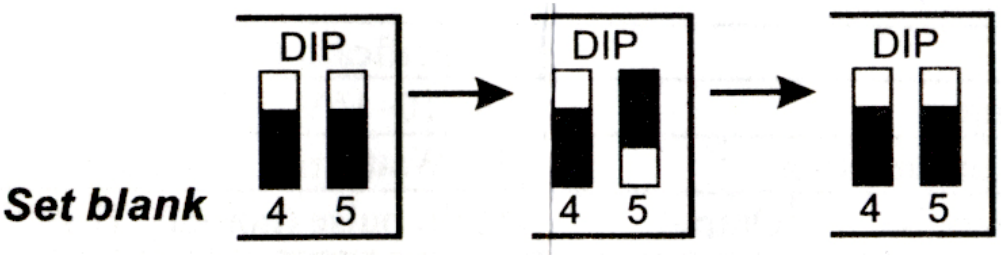
10. Select the right channel(setting sw3~sw1) to be programming.



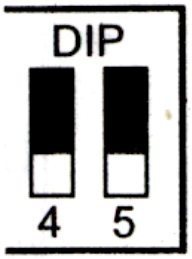
If set on channel 3

11. Choose 10 coins insert to the HI-09UCS/HI-09FCS(after 10 coins insert, relay gives twice clicks means this channel program done and unused channel must be to clear (make channel data blank), select unused channel put DIP-SW sw5 on “off” position and then put it on “on” position.





12. If you want to program other channel,you must repeat point 8-11.
13. After switching off the dc power, put DIP-SW sw4,sw5 on “off” position and select right ratio to the channel and impulse output ratio be corresponding.



14. Turn on dc power, ready to use.