K.COM

OPERATION MANUAL

COIN DISPENSER



Please read this operation manual carefully before using our mechanism to use correctly.

■ CONTENTS

MODEL : KCM-CD2000

(Dispenser for change)

■ POWER : ● +24VDC

• +5VDC

- POWER CONSUMPTION
 - 27mW (Waiting mode)
 - 6.0W (Operating mode)
- TEMPERATURE RANGE
 - $-15 \text{ C}^{0} \rightarrow +55 \text{ C}^{0}$

DIMENSIONS : W39 x D82 x H355

WEIGHT : 500 g

KOREA COIN MECHATRONICS CO., LTD.



1.INTRODUCTION

2.FEATURES

3.GENERAL SPECIFICATION

4.ASSEMBLY DRAWING AND STRUCTURE

4-1)External structure 4-2)Internal structure

5.ROUTEOFCOINS

5-1)Route of regular coins 5-2)Route of over flow coins 5-3)Route of damaged coins

6.HOW TO IMPLETE THE CHANGE

6-1)When inserting the coin sinto tube directly6-2)When inserting into the gate

7.THE DIRECTION OF COIN EJECTING

7-1)Coin output to right direction7-2)Coin output to left direction

7-3)Coin output to vertical direction

8.HOW TO USE

8-1)Compatible use with coin mechanism8-2)Multiple use of coin dispenser8-3)Compatible use with coin selector

9.MAIN CONNECTOR AND TIMING CHART

9-1)Main connector9-2)Pin assignment9-3)Timing chart

10.DIMENSION

1. INTRODUCTION

KCM-CD 2000 Coin dispenser can be used without discriminating kinds of coins in their size & material and can choose the coin storage amount. Furthermore, it don't create coin-jamming situation and has merit in fast coin-ejecting byeject the coin simultaneously.

2. FEATURES

- Large coin storage capacity which is compatible with coin mechanism.
- Over flow inserted coin to re-cycle.
- Can be ejected by hand by operating membrane S/W.
- Choose the direction of coin ejecting for left or right or vertical direction.
- Slide systemfor implementing many number of coins easily.
- Presenting the remain coins by sensoring for change.

3. GENERAL SPECIFICATION

KCM-CD2000 Coin Dispenser

TYPE	DESCRIPTION		
Useable coin	・Diameter:20~28.5 mm ・Thickness:1.2~3.4 mm		
Method of interface	Parallel interface		
Loading capacity stock coins	USD	1:146ea,25 ¢:168ea,10 ¢:230ea,5 ¢:156ea	
	EURO	<pre>€2:134 ea, €1:126ea, 50 ¢:124ea, 20 ¢:138ea 10 ¢:152ea, 5 ¢:174ea, 2 ¢:174ea, 1 ¢:174ea</pre>	
Pay method for change	DC Motor operating method		
Power	+5VDC, +24VDC		
Power consumption	6.0W		
Speed of coin ejection	1.76 ea/sec (± 0.1ea)		
Number of coin by sensoring for change	USD	\$ 1:10 ± 1ea, 25¢:11 ± 1ea, 10¢:15 ± 1ea, 5¢:10 ± 1ea	
	EURO	€2:10 ± 1ea, €1:10 ± 1ea, 50¢:10 ± 1ea, 20¢:10 ± 1ea 10¢:11 ± 1ea, 5¢:12 ± 2ea, 2¢:12 ± 2ea, 1¢:12 ± 2ea	
Temperature range	-15℃ ~ +55℃		
Functions	 Inventory Over flow Indication for without change Coin recycle Control the directionofcoinejection 		

4. ASSEMBLY DRAWING AND DESIGNATION

4-1) External structure



4-2) Internal structure



5. ROUTE OF COINS

5-1) Route of regular coins

Coins are stocked up in tubes through their proper gate after discriminating for regular coins in their diameter and thickness.



5-2) Route of over flow coins

If the latest stocked coin push the gate lever down, the route of over flow coins is made to drop those coins.

The dropping direction can be mani-pulated to left or right side by operating the direction key.



5-3) Route of damaged coins

The coins which are discriminated for damaged coin are dropping into the bottom part of the front tube cover through their proper gate.



6. HOW TO IMPLETE THE CHANGE

6-1) When inserting the coins into tube directly

- ① Insert the finger into the upper hole of tube cover and then push the cover latch to the downward to separate the transparent tube cover.
- ② Confirming whether there is any strange thing in motor slide and output gate.
- ③ Arrange the slide by operating the membrane S/W when the motor slide for ejecting isn't arranged correctly.
- Fill up more than forty coins for each gate.
 Furthermore, fill up the coins to the upper part of over flow when it is used as aid tube.
- ⑤ Confirming whether it is correctly stocked up, then lock the tube by moving the cover latch upward.
- © Eject three ~ five coins as trial by operating the membrane S/W and then check the no coin lamp is off.
- ⑦ When it is used compatibly with coin selector device, confirm whether it is correctly attached to the gate of all coins.



6-2) When inserting into the gate

When insert into front gate

Use when implementing small number of coins. Insert coins when the coin dispenser Pour coins into the gate with leaning the is correctly erected.

When insert into back gate

Use when implementing number of coins. dispenser toward front in the outrange of fixing hole.



- Arrange it by using of the hole in the front of the cover when some coins are not properly erected or not arranged after implementing the changes.
- Do not insert damaged coin.
- Eject three~five coins as trial by operating the membrane S/W after implementing coins.
- If you push down the membrane S/W, the operating motor will work to eject coin. And if you want to stop the motor, push the button once again.



7. THE DIRECTION OF COIN EJECTING

Controlling the coin eject direction on purpose with considering the place of the safe and coins are easily ejected to left or right or vertical direction.

7-1) Coin output to right direction

To eject coins to right side, assemble the key pad with determination of the direction of coin ejecting to right side.





7-2) Coin output to left direction

To eject coins to left side, assemble the key pad with determination of the direction of coin ejecting to left side.

7-3) Coin output to vertical direction

If assemble the dispenser without coin ejecting key pad, the coin will be ejected in vertical direction of dispenser.



8. HOW TO USE

8-1) Compatible use with coin mechanism

When many changes are required in case of using coin mechanism, it can be used compatibly with coin mec. as supplement tube of the coins.



8-2) Multiple use of coin dispenser

When many changes are required or use many kinds of coins, it can be easily used by selecting the proper way.



8-3) Compatible use with coin selector

 (1) When use two kind of coins for change

When the two kinds coins are required for change it can be easily used by assembling with coin selector of 3 way system(KCM-SLT 2003). And other coins except for changes are stocked up the safe.





2)When use four kind of coins for change

When the two kinds coins are required for change it can be easily used by assembling with coin selector of 3 way system(KCM-SLT 2003). And other coins except for changes are stocked up the safe.

9. MAIN CONNECTOR AND TIMING CHART

9-1) Main connector

Housing : JSTXLR-08V

9-2) Pin assignment

PIN NO	I/O	DESCRIPTION	REMARK
1	I	+24VDC	+23V ~ +25V
2	I	+5 VDC	+4.8V ~ +5.2V
3	0	GND	
4	I	EN	Operating motor(TTL)
5	0	Signal of coin ejection	PULSE(TTL)
6	0	Signal of sensoring for change	CHANGE(TTL)
7	0	Membrain SW signal	not used
8	*	NC	*

9-3) Timing charting



10. DIMENSIONS

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REAR VIEW

