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OPERATION MANUAL

COIN SELECTOR

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

■CONTENTS■

■ MODEL : KCM - SLT 2002

   (2 way system)

■ USABLE COIN

- ● Diameter : 16~28.5mm

- ● Thickness : 1.2~2.8mm

■ POWER : +5VDC, +24VDC

■ OPERATING TEMPERATURE RANGE :

- ● -10 C^0 ~ 50 C^0

■ POWER CONSUMPTION :

- ● 0.3W (Waiting mode)

- ● 9.9W (Operating mode)

■ DIMENSIONS : W92 x D39 x H104

■ WEIGHT : 230g

KOREA COIN MECHATRONICS CO., LTD.

◈ I N D E X ◈

1.INSTRODUCTION

Coin selector(KCM-SLT2002) is high quality coin acceptor of 2 way system which can differentiate up to eight different kinds of coins without considering the kind of coin as it is usable.

Especially, it can easily differentiate coins of other countries by their diameter, material, thickness. And it has the way of automatic reject of damaged coin`s whole front and has the system of using and setting up easily.
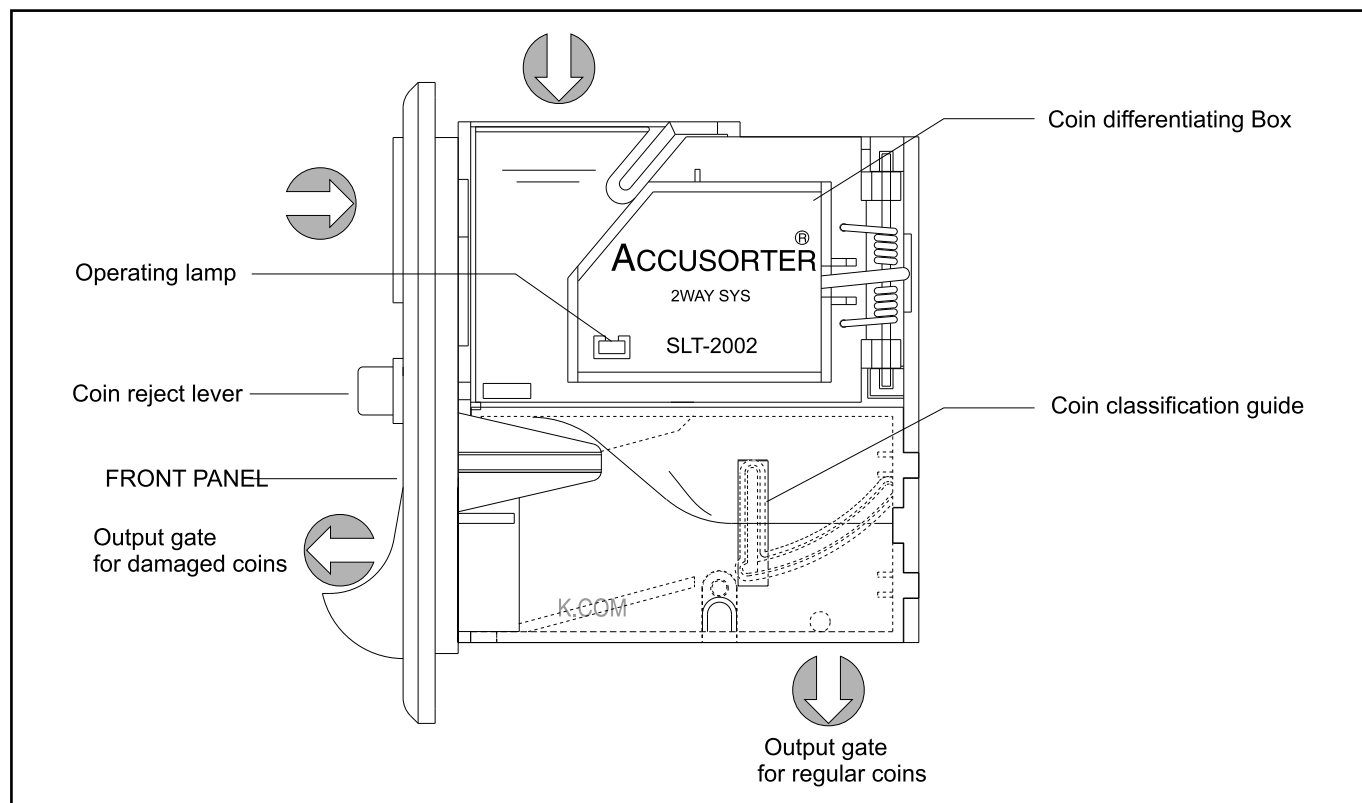
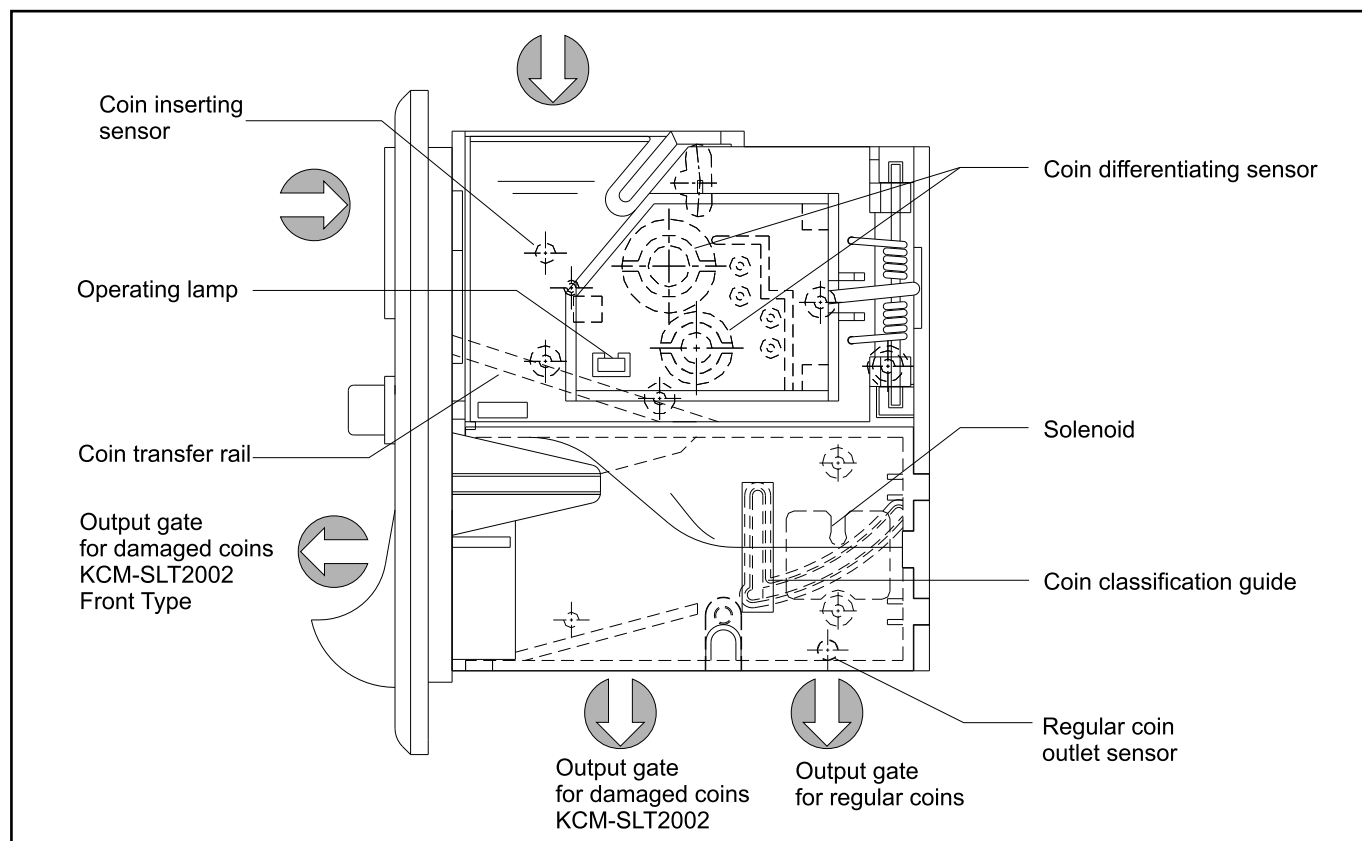# 2.GENERAL SPECIFICATION

Model : KCM-SLT2002

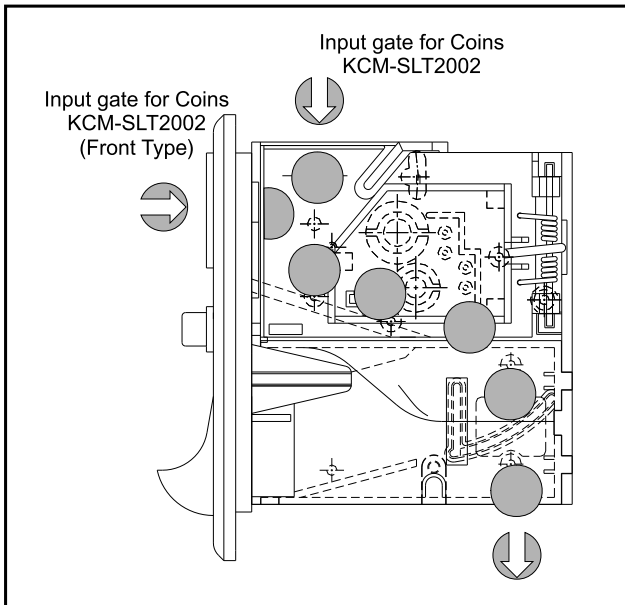| Type	Description
Usable Coin	Diameter : 16~28.5mm
	Thickness : 1.2~2.8mm
Communication method	Parallel Interface
Damaged Coin	Automatic reject
Regular Coin	1 Way
Time of Coin validating	Approx 2.5 EA/sec
Power	+5VDC, +24VDC
Power consumption	0.3W (Waiting mode), 9.9W (Operating mode)
Operating Temperature range	$-10 \, C^0 \sim +50 \, C^0$
Storage Temperature range	$-30 \, C^0 \sim +80 \, C^0$
Weight	Approx 230g.
Functions	■ Automatic reject of damaged coin`s whole front or lower part ■ Indicating out of order ■ Function of classification of regular coin and damaged coin ■ Can communicate serial for the use of Kiosk equipment.

3.ASSEMBLY DRAWING AND DESIGNATION

3-1) External structure

Coin differentiating Box

Operating lamp

ACCUSORTER®

2WAY SYS

SLT-2002

Coin reject lever

FRONT PANEL

Coin classification guide

Output gate
for damaged coins

K.COM

Output gate
for regular coins

3-2) Internal structure

Coin inserting
sensor

Coin differentiating sensor

Operating lamp

Coin transfer rail

Solenoid

Output gate
for damaged coins
KCM-SLT2002
Front Type

Coin classification guide

Regular coin
outlet sensor

Output gate
for damaged coins
KCM-SLT2002

Output gate
for regular coins

4. ROUTE OF COINS

Input gate for Coins
KCM-SLT2002

Input gate for Coins
KCM-SLT2002
(Front Type)
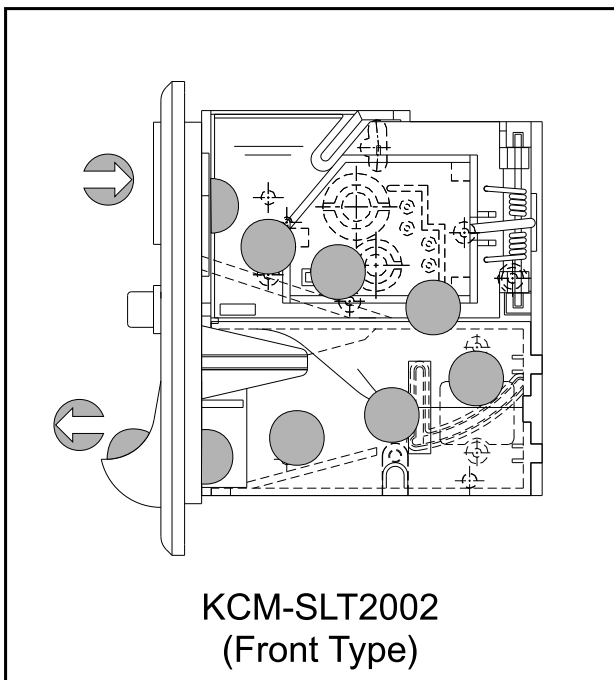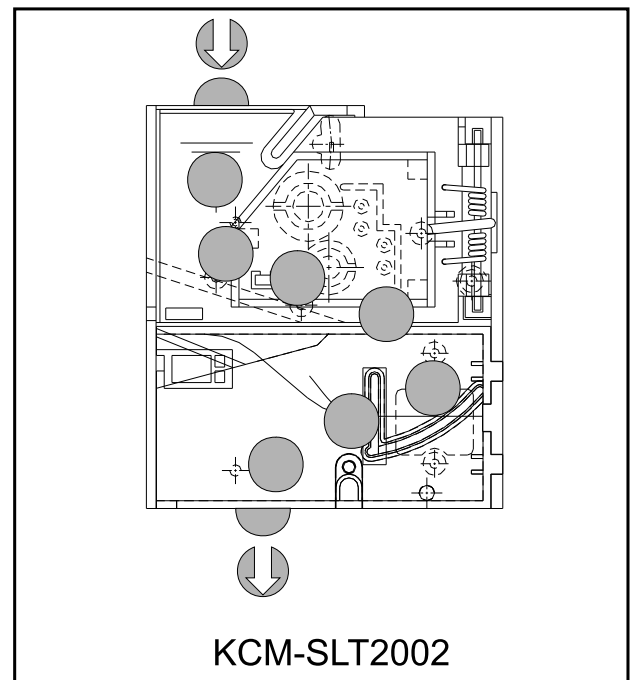
4-1) Route of regular coins

Inserted regular coin is leaded to its route by restoring the classification guide after differentiating its correctness.
And then it drops into safe through the way.

4-2) Route of damaged coins

KCM-SLT2002
(Front Type)

KCM-SLT2002

Inserted damaged coin is leaded to route for damaged coin by opening the classification guide because it is different from the memory of regular coin.
And then it returns into front way by its transfer rail.

Inserted damaged coin is leaded to route for damaged coin by opening the classification guide because it is different from the memory of regular coin.
And then it returns into lower way by its route.

5. MAIN CONNECTOR

| PIN NO	SIGNAL NAME	I/O	DESCRIPTION	REMARK
1	REJ	O	-	A-Low
2	DIS	I	Disable	A-High
3	Coin D	O	Coin Signal D	A-High
4	Coin C	O	Coin Signal C	A-High
5	Coin B	O	Coin Signal B	A-High
6	Coin A	O	Coin Signal A	A-High
7	CLR	I	Coin Signal Clear	A-High
8	TXD	O	-	Not used
9	RXD	I	-	Not used
10	GND	O	Power revolution	GND
11	+5V	I	Power input	+4.8V~+5.2V
12	+24V	I	Power input	+23V~+25V

6. TIME CHART

1) Insert and discrimination
   (Internal signal)

2) Output confirming
   (Internal signal)

3) Coin signal
   (External output)

4) Solenoid operation
   (Internal signal)

5) Disable input
   (External input)
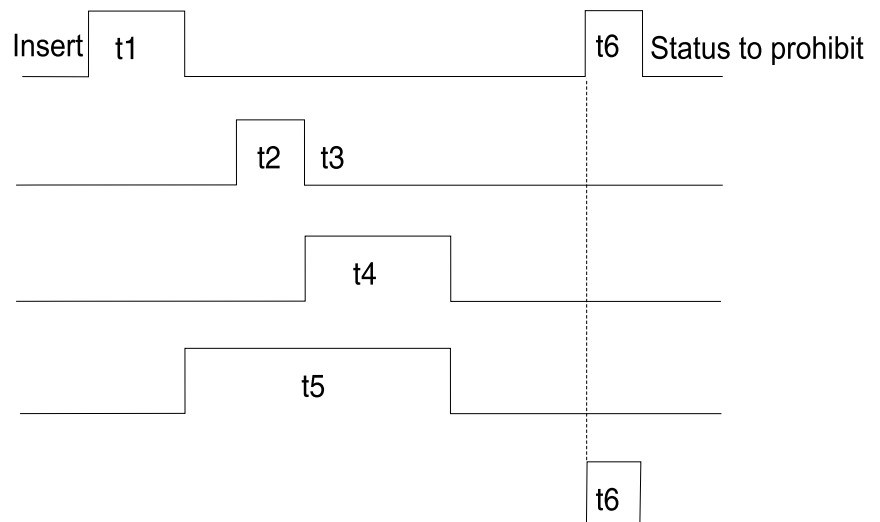
- t1 = 55ms ~ 70ms
- t3 = 35ms ~ 50ms
- t5 = 300ms ~ 340ms
- t2 = 10ms ~ 20ms
- t4 = 50ms - 200ms
- t6 = 5ms over

❖ Max velocity for continuous inserting : Approx. 1.5ea/1sec
   signal A=10Rouble, B=5Rouble, C=2Rouble, D=1Rouble
   (A+D=50Kopek)

7. MAINTENANCE

7-1) Trouble indicator function of LED condition
① Waiting mode for coin acception normally : LED "ON"
② Not turned power or not initial mode : LED "OFF"
③ Coin jamming on the Inserting sensor part : light on and off once a second
④ Coin discrimination sensing parts is faulty : light on and off twice a second

7-2) Matters that demand special attention
① Please be careful to do not create any mechanical shock or dropping as it is precise assembly.
② Before turning off the power, any connection and disconnection with vending machine is strictly prohibited.
③ Keep out high temperature and humid places because coin mechanism has circuit inside.

7-3) Simple cleaning
   - Power must be off
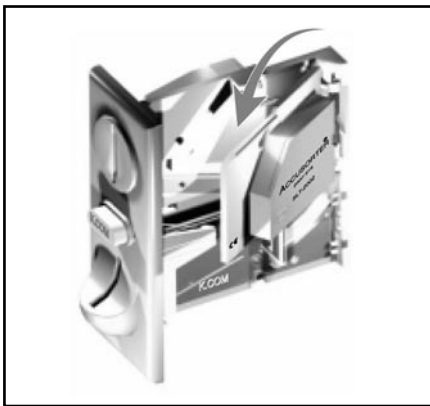
① Pull the coin sensoring part of coin selector toward the front and then clean the bottom part of body and coin moving rail.

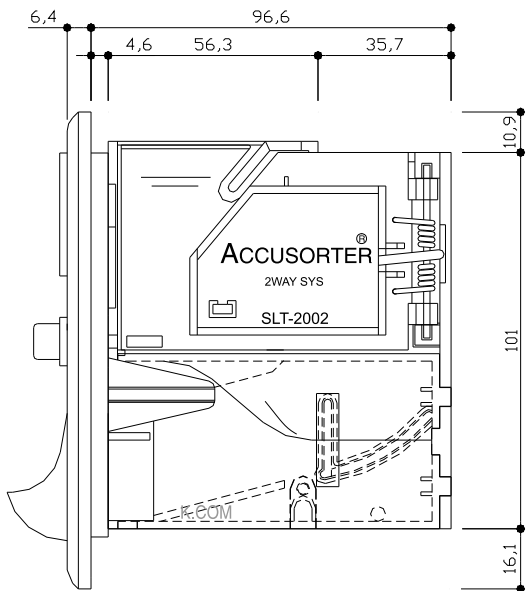② Check if there is any other substance on the surface of inserting and ejecting sensor.

< Attention >

▶ In case of using a cleaning agent, avoid using solvents like lubrication oil and thinner. Using alcohol and wipe with a dry cloth.

▶ After finishing the checking and simple cleaning of the machine, check normal condition of the coin selector. Then insert a coin to check for any errors.

▶ If you assemble or disassemble this product without any pertinent purpose except above listed case, it will not included in free A/S range.
So when any problem occurs, you must call to K.COM for repair.
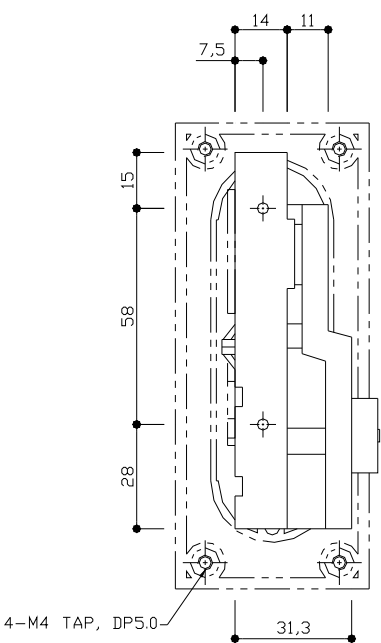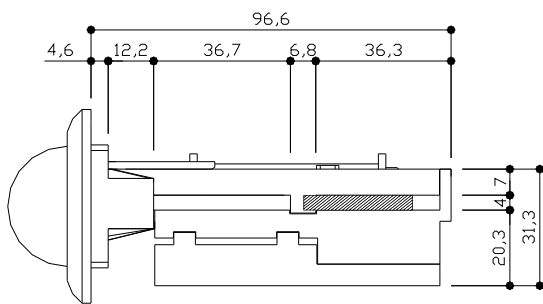
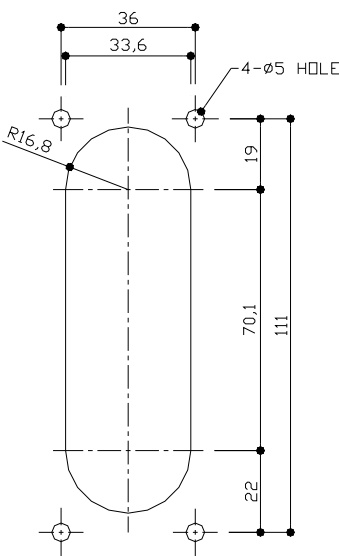# 8. INTERFACE CIRCUIT
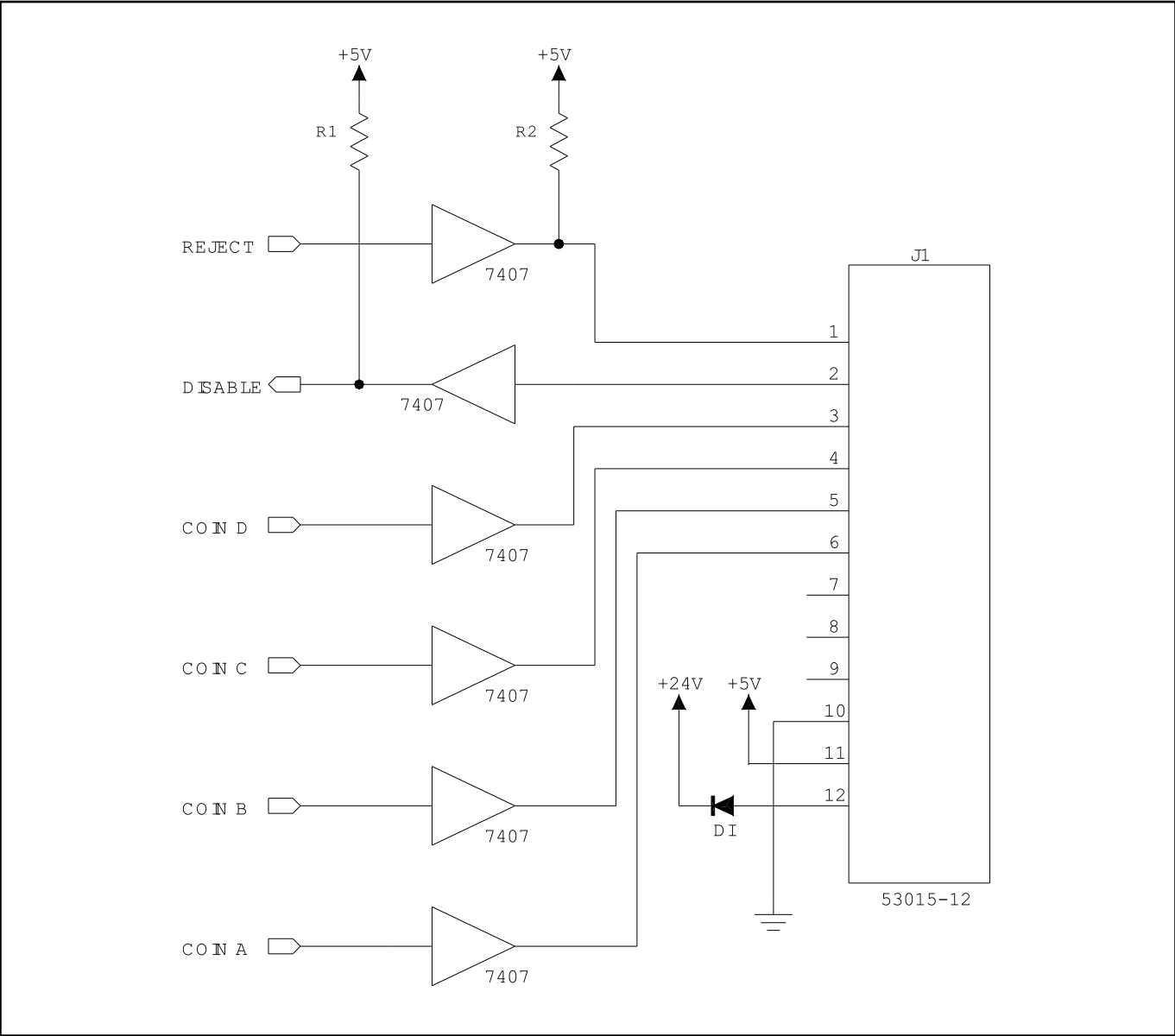
DIMENSIONS

9-1) KCM-SLT2002(Front Type)

FRONT VIEW

RIGHT VIEW

4-M4 TAP, DP5.0

BOTTOM VIEW

Output gate
for regular coins

CUTTING SIZE
(Maint. Dimension)

4-Ø5 HOLE

R16,8

ACCUSORTER®
2WAY SYS
SLT-2002

9-2) KCM-SLT2002

LEFT VIEW

FRONT VIEW

ACCUSORTER
2WAY SYS
SLT-2002

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RIGHT VIEW

Output gate
for regular coins

Output gate
for damaged coins

BOTTOM VIEW
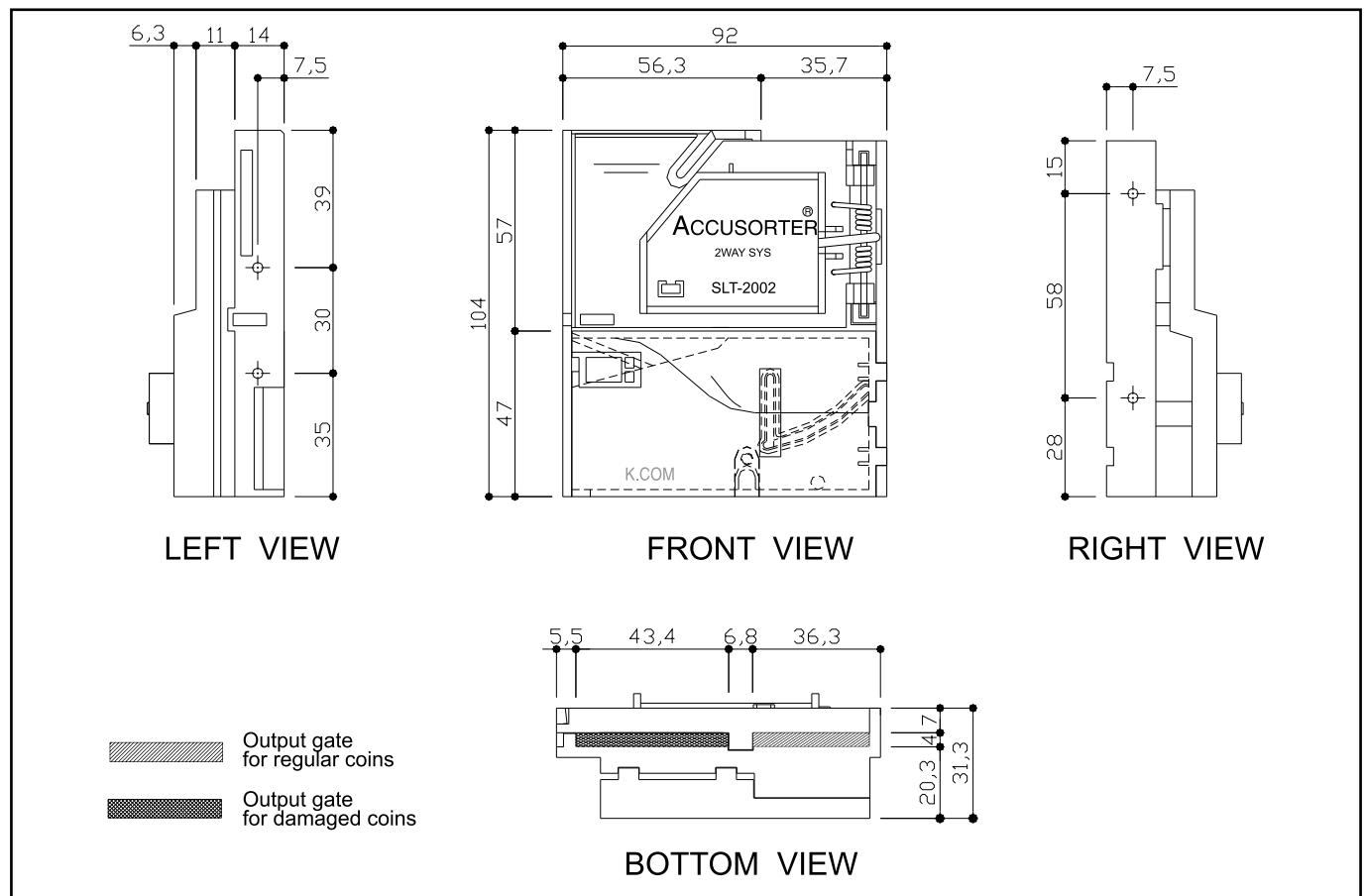
9-3) KCM-SLT2002 HOUSING(Option)

2-Ø4.5

2-Ø4.5

2-Ø4.5