



SENSIS Kiosk Components
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Интернет
www.sensis.ru

SH-D10 (DUMP SHUTTER)

SPECIFICATION

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I. Revision History

Ver.	Date	Item		Name
		Title	Details	



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2. Specifications

Feature	Specification	Remark
Stack capacity	Max 70 notes	
Dump capacity	Max 70 notes(only once)	
Acceptable media range	Max 100mm × 176mm	
	Min 56mm × 120mm	
Forced open prevention function	Yes	
User protection function	Yes	
DUMP Function	Yes	
Open times	about 800ms	
Electrical Power Requirements	+5V, +24V DC	
Temperature	Operation 0°C ~ 40°C Storage -5°C ~ 50°C	
Humidity	Operation 10%~ 80 % Storage 5% ~ 80%	Non condensing
Weight	3.5kg	
Installation method	System/ Module	In case of WIZ-M(front type) System installation(only) In case of WIZ-MR(Rear type) Module installation.



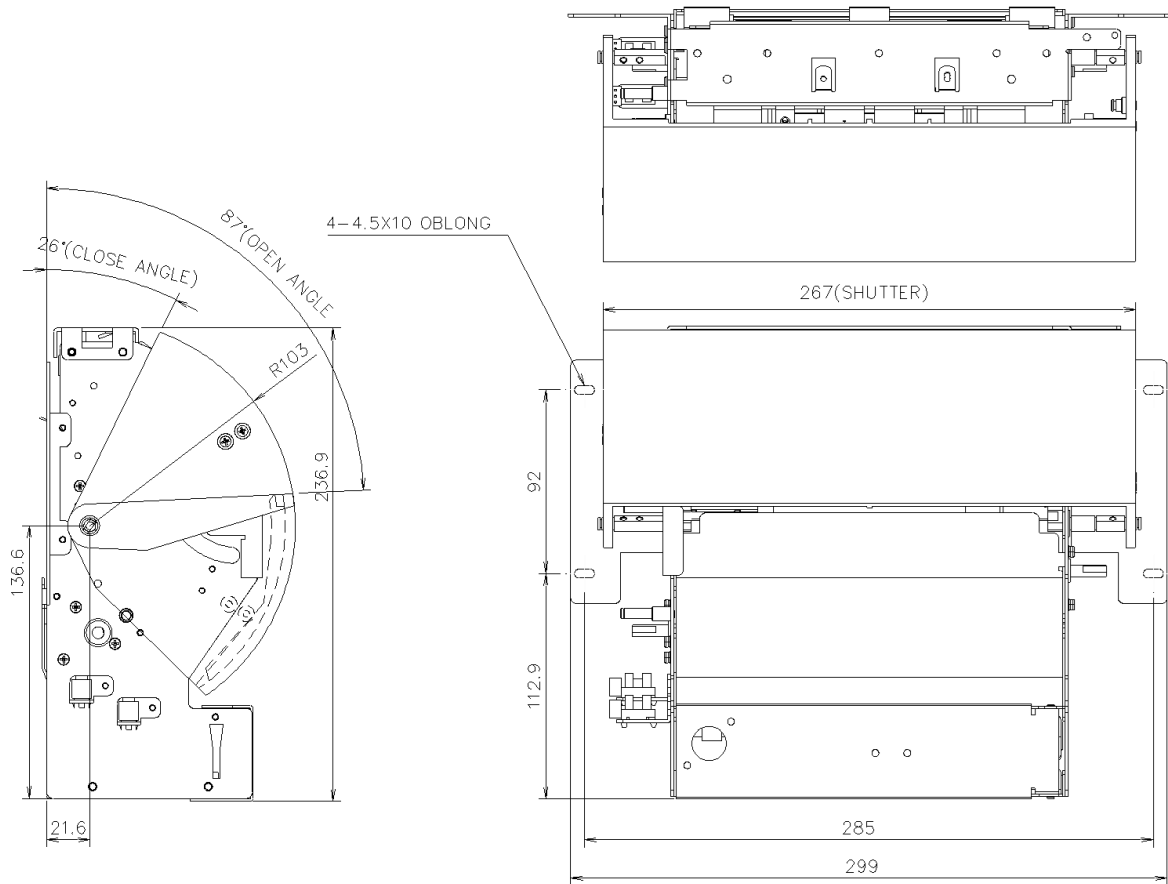
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3. Layout

3-I. Design Layout



(Unit : mm)



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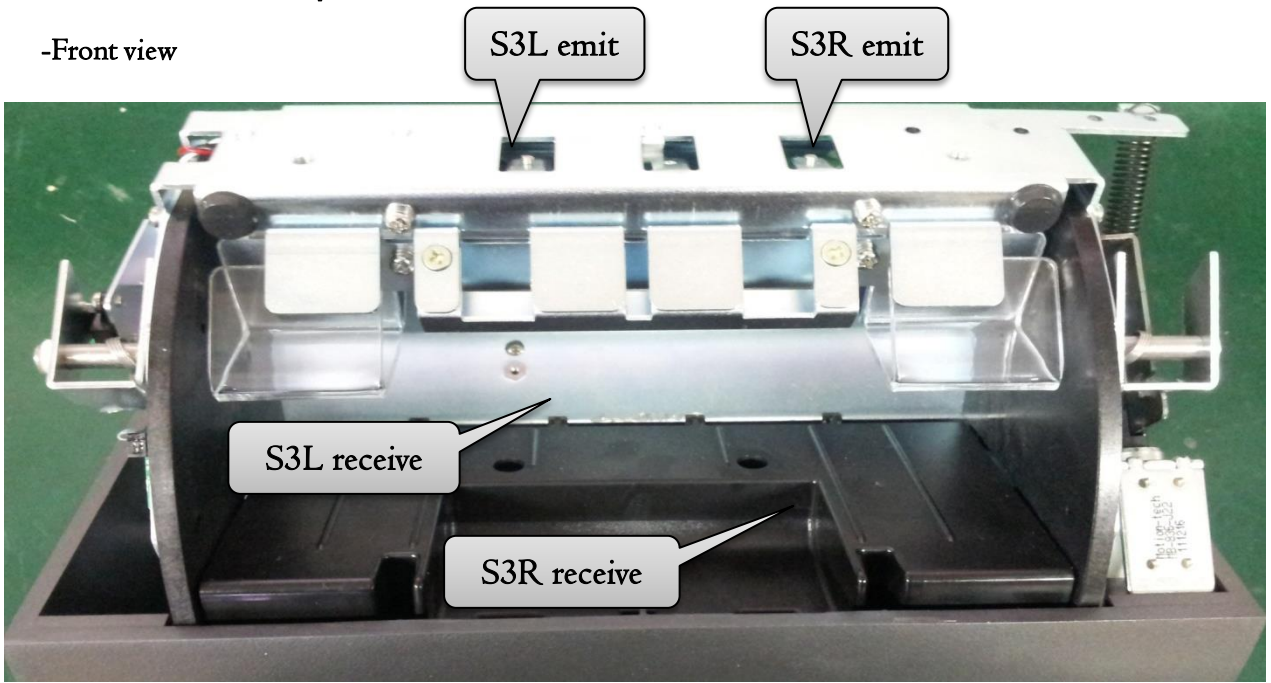
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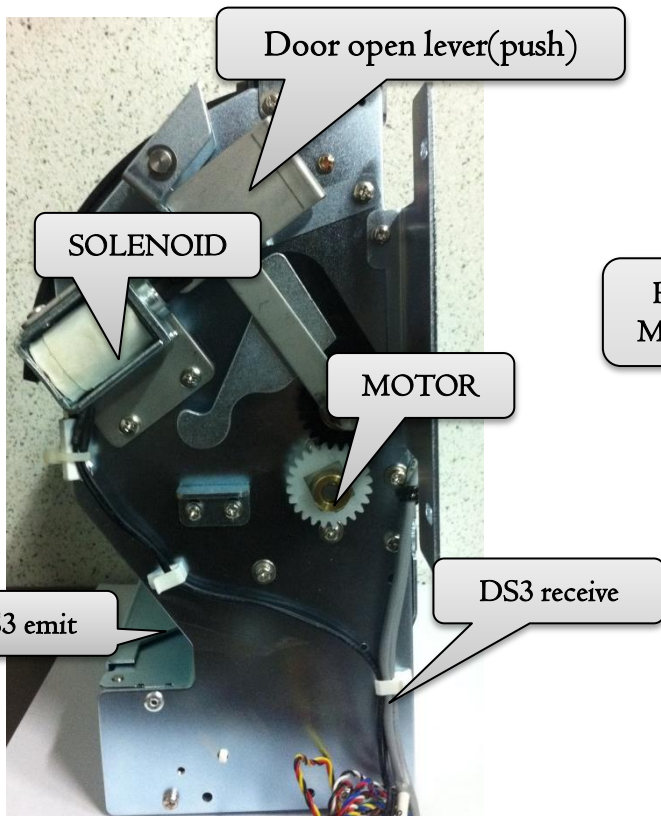
3. Layout

3-2. Sensor & Actuator Layout

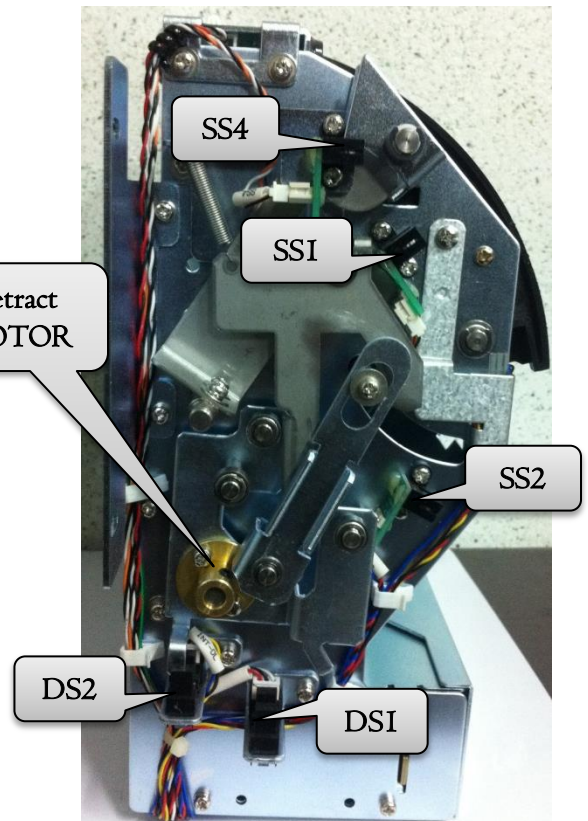
-Front view



-Right view



-Left view



4. Communication specifications

4-I. Shutter open command

- Command

STX	LI(0)	LI(I)	XN	Cmd	ETX	BCC
-----	-------	-------	----	-----	-----	-----

- Command Message

CODE	DESPCRPTION	HEX VALUE
STX	Start of Transmission	0x02
LI	Data length	
XN	XN character	
Cmd	Shutter open command	0x60
ETX	End of text	0x03
BCC	Block check character	

- Response

STX	LI(0)	LI(I)	XN	Cmd+0x20	Error code	Sensor	ETX	BCC
-----	-------	-------	----	----------	------------	--------	-----	-----

- Response Message

CODE	DESPCRPTION	HEX VALUE
STX	Start of Transmission	0x02
LI	Data length	
XN	XN character	
Cmd	Shutter open command + 0x20	0x80
Error code	Error status for the operation	
Sensor	Sensor status IO bytes	
ETX	End of text	0x03
BCC	Block check character	



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4. Communication specifications

4-2. Shutter close command

- Command

STX	LI(0)	LI(I)	XN	Cmd	ETX	BCC
-----	-------	-------	----	-----	-----	-----

- Command Message

CODE	DESPCRPTION	HEX VALUE
STX	Start of Transmission	0x02
LI	Data length	
XN	XN character	
Cmd	Shutter close command	0x61
ETX	End of text	0x03
BCC	Block check character	

- Response

STX	LI(0)	LI(I)	XN	Cmd+0x20	Error code	Sensor	ETX	BCC
-----	-------	-------	----	----------	------------	--------	-----	-----

- Response Message

CODE	DESPCRPTION	HEX VALUE
STX	Start of Transmission	0x02
LI	Data length	
XN	XN character	
Cmd	Shutter close command + 0x20	0x81
Error code	Error status for the operation	
Sensor	Sensor status IO bytes	
ETX	End of text	0x03
BCC	Block check character	



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4. Communication specifications

4-3. Shutter open & close command

Shutter door is automatically closed in case customer normally take delivery of notes.

- Command

STX	LI(0)	LI(I)	XN	Cmd	Time_I	Time_2	ETX	BCC
-----	-------	-------	----	-----	--------	--------	-----	-----

- Command Message

CODE	DESPCRPTION	HEX VALUE
STX	Start of Transmission	0x02
LI	Data length	
XN	XN character	
Cmd	Shutter close command	0x62
Time_I	Max waiting time for collecting note from shutter (Max 100sec)+ 0x20	
Time_2	Additional waiting time before shutter-close (Max 5msec)+ 0x20	
ETX	End of text	0x03
BCC	Block check character	

- Response

STX	LI(0)	LI(I)	XN	Cmd+0x20	Error code	Sensor	ETX	BCC
-----	-------	-------	----	----------	------------	--------	-----	-----

- Response Message

CODE	DESPCRPTION	HEX VALUE
STX	Start of Transmission	0x02
LI	Data length	
XN	XN character	
Cmd	Shutter close command + 0x20	0x82
Error code	Error status for the operation	
Sensor	Sensor status IO bytes	
ETX	End of text	0x03
BCC	Block check character	

4. Communication specifications

4-4. Retract command

In case the nonreceipt of notes are remained in Shutter, operate the tray and then the notes is dumped in Dump box.

- Command

STX	LI(0)	LI(I)	XN	Cmd	ETX	BCC
-----	-------	-------	----	-----	-----	-----

- Command Message

CODE	DESPCRPTION	HEX VALUE
STX	Start of Transmission	0x02
LI	Data length	
XN	XN character	
Cmd	Retract command	0x67
ETX	End of text	0x03
BCC	Block check character	

- Response

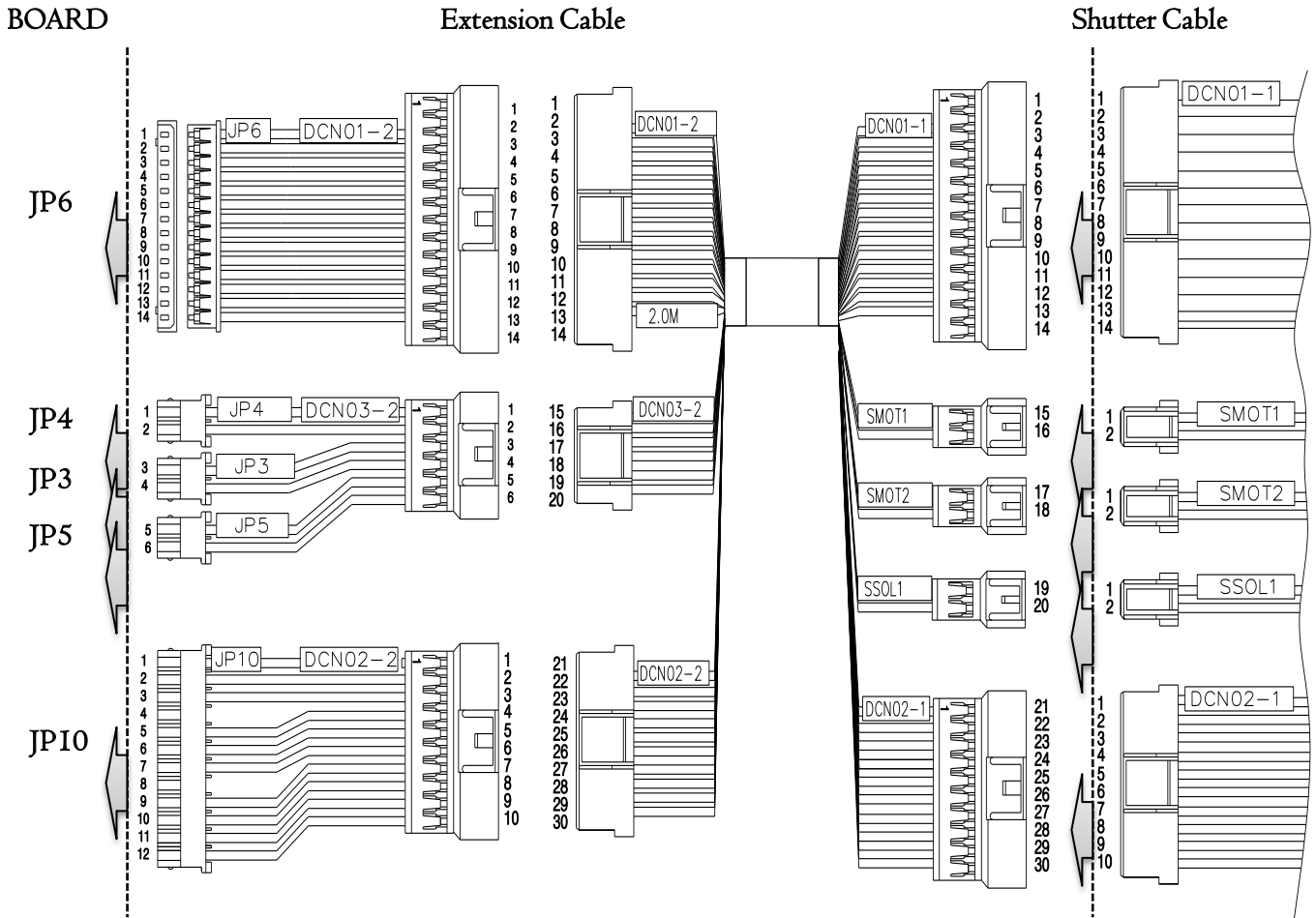
STX	LI(0)	LI(I)	XN	Cmd+0x20	Error code	Sensor	ETX	BCC
-----	-------	-------	----	----------	------------	--------	-----	-----

- Response Message

CODE	DESPCRPTION	HEX VALUE
STX	Start of Transmission	0x02
LI	Data length	
XN	XN character	
Cmd	Retract command + 0x20	0x87
Error code	Error status for the operation	
Sensor	Sensor status I0 bytes	
ETX	End of text	0x03
BCC	Block check character	

5. Cable specifications

5-I. Cable layout



5. Cable specifications

5-2. Cable connector pin chart

- JP3 : Dump DC Motor(5267-02/Molex)

Pin No.	Signal	Remark	Pin No.	Signal	Remark
1	DC+		2	DC -	

- JP4 : Shutter DC Motor(5267-02/Molex)

Pin No.	Signal	Remark	Pin No.	Signal	Remark
1	DC+		2	DC -	

- JP5 : Shutter Solenoid(5267-02/Molex)

Pin No.	Signal	Remark	Pin No.	Signal	Remark
1	On/Off Control		2	+ 24V	

- JP6 : Shutter/Stacker Module Sensor(53014-I4/Molex)

Pin No.	Signal	Remark	Pin No.	Signal	Remark
1	GND		8	GND	
2	SSI	Sensor out	9	SS4	Sensor out
3	SVCC	+5V	10	GND	
4	GND		11	SVCC	+5V
5	SS2	Sensor out	12	GND	
6	SVCC	+5V	13	SS3	Sensor out
7	SVCC	+5V	14	GND	

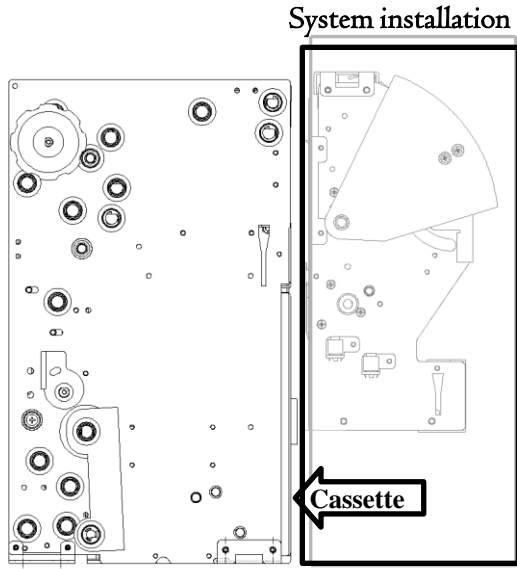
- JPI0 : Dump Module Sensor(5267-I2/Molex)

Pin No.	Signal	Remark	Pin No.	Signal	Remark
1	SVCC		7	DS2	Sensor out
2	GND		8	GND	
3	DSI	Sensor out	9	SVCC	
4	GND		10	GND	
5	SVCC		11	DS3	Sensor out
6	GND		12	GND	

6. Shutter installation method

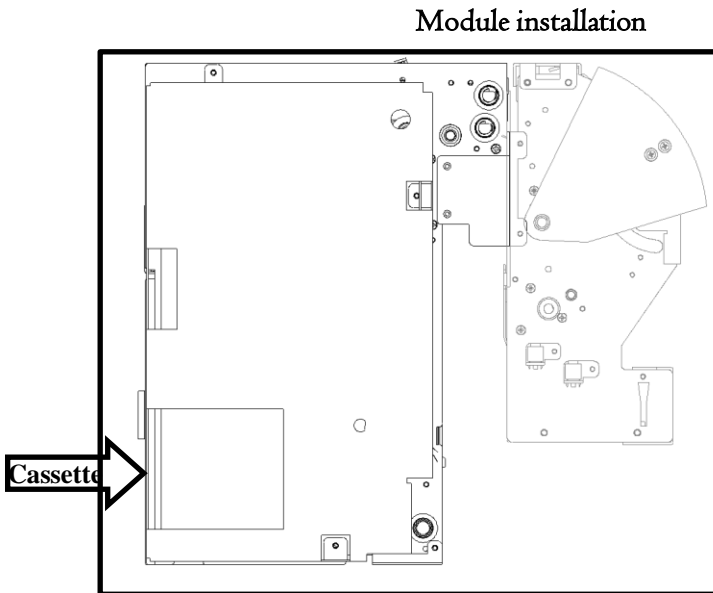
6-1. Front type Module installation (WIZ-M)

: Dump shutter is separated from Module.



6-2. Rear type Module installation (WIZ-MR)

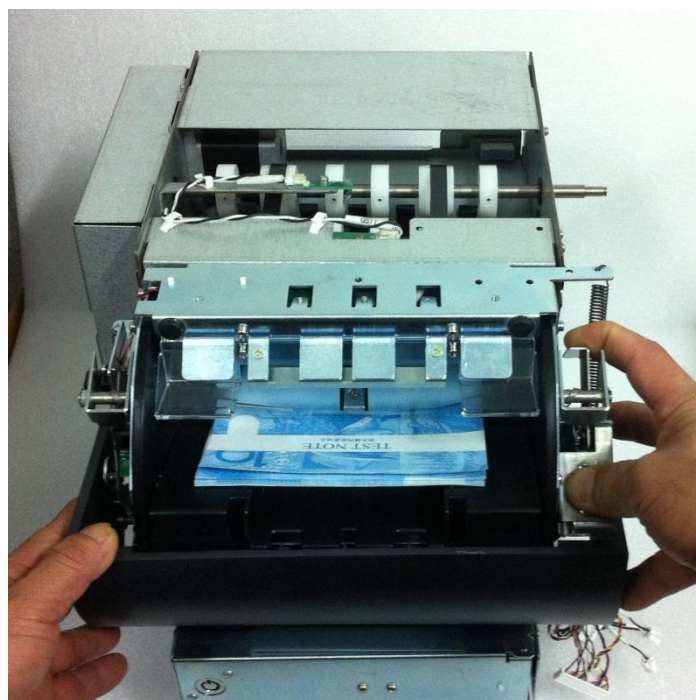
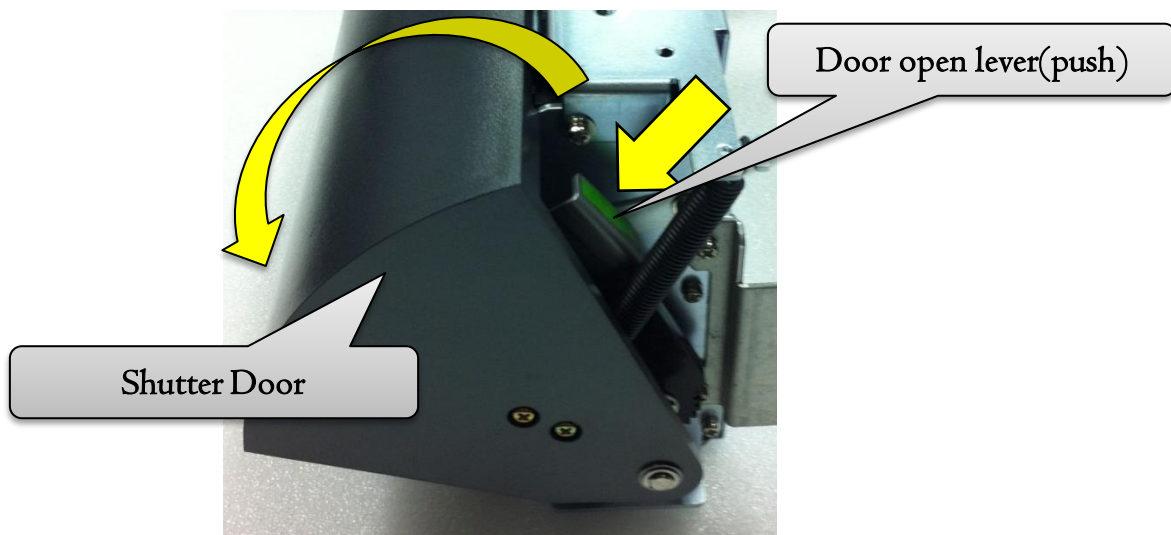
: Dump shutter is assembled with Module.



7. How to handle a dump shutter

This is how to open the shutter door.

- Ⓐ Push the Door open lever.
- Ⓑ Rotate the shutter door in the direction of the arrow.



8. Dump Shutter error code(WIZ-M/MR)

Error Code	Description	Action
38	Shutter open action error : Cause <ul style="list-style-type: none"> ➔ Loose contact of SS4 sensor cable ➔ Failure detection of SS4 sensor ➔ Shutter motor drive failure ➔ Interference of System and shutter door when the door is open. 	<ul style="list-style-type: none"> -.Replace SS4 sensor cable. -.Adjust the bracket of SS4 sensor. -.Replace Shutter motor. -.Check the interference of the system and the shutter door.
39	Shutter close action error : Cause <ul style="list-style-type: none"> ➔ Failure detection of SSI sensor ➔ Shutter motor drive failure ➔ Interference of System and shutter door when the door is open. 	<ul style="list-style-type: none"> -.Adjust the bracket of SSI sensor. -.Replace Shutter motor. -.Check the interference of the system and the shutter door.
3A,3B	Notes receipt failure in the shutter : Cause <ul style="list-style-type: none"> ➔ Loose contact of SS3 sensor cable ➔ Failure detection of SS3 sensor ➔ Poor alignment of SS3 sensor. 	<ul style="list-style-type: none"> -.Replace SS3 sensor. -.Replace SS3 sensor cable. -.Check and Adjust the alignment(SS3).
4A	Retract operation failure : Cause <ul style="list-style-type: none"> ➔ Loose contact of SSI sensor cable ➔ Failure detection of SSI sensor ➔ Interference of System and shutter door when the door is open 	<ul style="list-style-type: none"> -.Replace SSI sensor. -.Check the cable contact. -.Check the interference of the system and the shutter door.
4B	Retract operation failure (Tray down operation failure) : Cause <ul style="list-style-type: none"> ➔ Loose contact of DS2 sensor cable ➔ Failure detection of DS2 sensor ➔ Retract motor drive failure ➔ Interference when operating 	<ul style="list-style-type: none"> -.Replace DS2 sensor. -.Check the retract motor operation. -.Check the cable contact. -.Check/Remove the interference

8. Dump Shutter error code(WIZ-M/MR)

Error Code	Description	Action
4C	<p>Retract operation failure (Tray up operation failure)</p> <p>: Cause</p> <ul style="list-style-type: none"> ➔ Loose contact of DSI sensor cable ➔ Failure detection of DSI sensor ➔ Retract motor drive failure ➔ Interference when operating 	<ul style="list-style-type: none"> -.Replace DSI sensor. -.Check the retract motor operation. -.Check the cable contact. -.Check/Remove the interference
4D	<p>Retract operation failure (The notes remains after operating)</p> <p>: Cause</p> <ul style="list-style-type: none"> ➔ SS3 sensor is always detected. ➔ Loose contact of SS3 sensor cable ➔ Interference when operating 	<ul style="list-style-type: none"> -.Replace SS3 sensor. -.Check the cable contact. -.Check/Remove the interference
4E	<p>Shutter sensor failure</p> <p>: Cause</p> <ul style="list-style-type: none"> ➔ SS2 sensor is always detected. ➔ 5V voltage failure 	<ul style="list-style-type: none"> -.Replace SS2 sensor -.Adjust 5v voltage value