7.Description of Operation

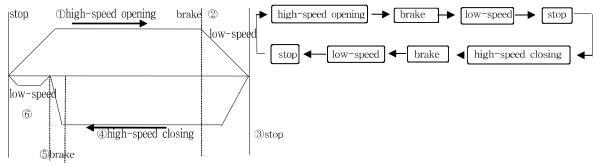
Description of Movements

1)Operation at power input

When a power switch is on, it opens with high-speed(memorizing the opening door width) and closes with low-speed(memorizing the closing door width).

*Feasibility of low-speed control

2)Operating description of tubular operation cycle



- (1) When a sensor signal is on, it opens with high-speed. After a brake is applied before a complete opening, it opens completely at low-speed. (1 cycle operation)
- (2) When a sensor signal is off, it closes at high-speed after hold time. After a brake is applied before a complete closing, it closes completely at low-speed.
- (3) While a door is being shut with safety sensor on, the door opens in reverse. And after hold time when either a body or an object is thoroughly passed, it closes.

Description of operation at an abnormal occurrence

1. A case of an obstacle at opening:

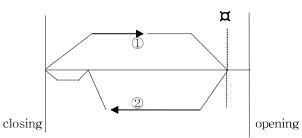
- ①When there is an obstacle, it stops and closes at low-speed(safety velocity).
- ②When a sensor signal is perceived, it opens and closes after hold time.

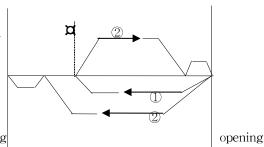
2. A case of an obstacle at closing:

When there is an obstacle at closing, a door reopens in reverse.

3. A case of an imperfect factor at safety operation

When there is an imperfect factor at safety operation, an interrupt ringing tone rings 7 times and waits for an inspection after the system is put to a stop.





closing

8.Adjustment at Test Running

First, Send a signal While power is turn on and the setting will be started.

(Although power is turn on, unless you send a signal, the setting won't be started)

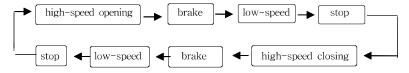
- 1. Turn off power S/W
- 2. After installing the engine unit, recheck looseness of volt. Transcable must be plugged in properly.
- 3. Check transit condition of the door.
 - + Is transit resistance of door, barrier too high?
 - + Is tension of belt normal? If a belt spins, an error occurs in operation.
 - + Is low-speed too slow? If low-speed is too slow, reopeningmay occur.
- 4. Adjust opening direction S/W.

Right direction (ADH-FW door) ON - door opens to the right hand.

Left direction (ADH-FW door) OFF - door opens to the left hand.

- 5. Completing the above sensor procedure, turn power S/W on.
- 6.Launch a sensor and check automatic door operation.

When the sensor is launched, it will perform basic operation as an automatic door as the following shows.



- ** Right after the beginning of operation, width of high-speed opening and closing are widened.

 Every time the previous operation is repeated, width of the high-speed opening and closing becomes narrower and stable in the optimum operation state.
- 7. If the sensor isn't set to sense, it closes after the hold time.
 - ** When the sensor is not connected, a movement can be perceived just like when the sensor is sensed by shortening an input terminal.
- 8. Asthe sensor senses, adjust with each volume for speed adjusting.

 1)Inspection item

Inspection item	S t a t u s	Adjustment and Confirmation
Brake adjustment	When the break is too powerful	Eliminate the low section (od,cd) value by 1 step.
Closing speed adjustment	When the closing speed is too fast	Adjust by reducing low-speed value (ss) one step at a time
Low-speed adjustment	When the low-speed is too fast and makes noise	Adjust by reducing low-speed value (ss) one step at a time