Automatic Door Controller Manual

BESTKOREA Co.,Ltd.

1. specifications

Model	BKA-N100	
Input voltage	AC180V ~ 265V(50 ~ 60Hz)	
Motor	DC24V / 60W BRUSH DC MOTOR	
Temperature	-20 ~ +45°C	
Output voltage/current	DC24V/1A	
Sensor interface Voltage-free input signal		
Safety sensor interface Voltage-free input signal		

2. Features

With accurate position control using microprocessors, the design was less error-prone and power was introduced in SMPS, making it lighter and less space. Also, it can produce a maximum output of 250W, so there is no significant amount of door opening and closing.

3. Operation description

- ① When the product is installed and powered on, it slowly closes and opens to measure the opening distance of the door
- ② After distance setting, perform normal operation according to the set value.
- 3 If the open sensor or safety sensor is illuminated, the door will not close and the installation shall be verified.

4. Menu setting method

- ① All menu settings can only be set during closing settings or when the door is closed, but not during other operations.
- ② Because the setting method varies repeatedly from 1 to 7 when the SET button is pressed, adjust the value using the UP/DOWN button when the desired menu value is released.
- ③ If you do not press for more than 3 seconds, you can save automatically and leave the menu mode. Press SET button again if you need to set it again.
- 4 The left of the two numbers is the menu number, the right is the set value, and the point is displayed in the middle when setting.

5. Menu Functions Description

0	Open speed setting	$0 \sim 9$ You can set from 0 to 9, and the higher the number, the faster.		
1	Closing speed setting	$0 \sim 9$ You can set from 0 to 9, and the higher the number, the faster.		
2	Open waiting time	$0 \sim 9$ The wait time after the door has been opened. The set value is in second		
3	Acceleration pattern setting	Set the acceleration at startup. $0 \sim 4$ Depending on the weight of the door, the number is higher and faster.		
4	Closing final speed	0 ~ 9	It is slow speed when the door is almost closed. You can set from 0 to 9, and the higher the number, the faster.	
5	Return strength setting	Set the push force when the door is jammed or bumped. $0 \sim 9$ You can set from 0 to 9, and the higher the number, the strong the force.		
6	Special functions 1	0 ~ 9	1 becomes the basic lock when set to and turn the power on/off.	
7	Special functions 2	(See Lower 6 Yield)		
	Switching direction setting	The direction of the machine opening when facing it. If the direction is changed, Power must be cycled.		

6. Special Function 2 Setting Method

Set value	Function 1	Function 2	etc.
1	100% OPEN / NORMAL OPEN	The americal terms in all authorities	Function 2 does not work if
2	100% OPEN / ONE-TOUCH	NORMAL OPEN closed and [OFF] when to	the setting of menu 6 is set to 1 and the controller lock is set to 1.
3	50% OPEN / NORMAL OPEN		
4	50% OPEN / ONE-TOUCH	entering the Or Liv signal.	
5	100% OPEN / NORMAL OPEN	The special terminal output is	It is possible to set from E to
6	100% OPEN / ONE-TOUCH	[ON] when the door is closed and [OFF] when entering the	' ' '
7	3070 OF LIN / NORWIAL OF LIN		
8	50% OPEN / ONE-TOUCH		

After changing the above setting, you must cycle the power.

7. Display Form

CA	The upper case CA means that it is currently closed and the right number may be different
P8	The upper case P8 means that it is currently open and the right number can be any value.
t1	t1 indicates that an open sensor signal is on, and at the same time, the green LED on the ι
t2	t2 indicates that the safety sensor signal is on, and at the same time, the amber LED on the

8. Error code

E1	It occurs when there is a jam when the door is opened. solve a problem that takes place	
E2	The value of the encoder on the motor is an error. Check encoder, controller, motor.	
E3	Not Applicable	
E4	This is when the motor does not move or the distance is set too short. Check the door, controller, motor.	
E5	This is when the speed of the regulation has been exceeded. It can also occur if you push it with your hands at random.	

In the event of an error, the red lamp is turned on and the automatic setting mode is 2 more times. Do not operate the machine until the cause is removed and the power is cycled.