BL2000-HAH-M1.1

FR2000-HAH-V9

BL2000-HAH-B9

Dot Matrix landing Board Manual

One. Functions

- Display floor and control landing door call.
- output arrival gong and arrival light
- Indicate elevator condition through light emitting diode.
- support display of elevator condition and light emitting diode indicator
- Support serial communication input of electric lock and fire fighting.

Two. Dimension

Different model has different dimension, it should refer to final drawing provided by technical Department.

Three. Interface definition and technical specification

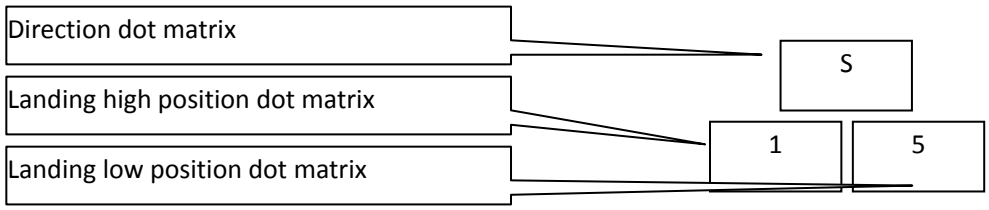
Name	Position	Definition	Usage	Interface technical specification	
				Interface Type	Rated Load
PW	PW-1	24V power input	Power and communication interface		150mA
	PW-2	24V power input grounding			
	PW-3	CAN bus H			
	PW-4	CAN bus L			
SH	SH-1	Up call response	Up call push button input and response output	OC door	DC24V、20mA
	SH-2	24V			
	SH-3	24V			
	SH-4	Up call input		Resistor distribute voltage	
XH	XH-1	Down call response	Down call push button input and response output	OC door	DC24V、20mA
	XH-2	24V			
	XH-3	24V			
	XH-4	Down call input		Resistor distribute voltage	
BY0	BY0-1	Standby response	Standby push button input and response output [Note 1]	OC door	DC24V、20mA
	BY0-2	24V			
	BY0-3	24V			
	BY0-4	Standby input [Note 2]		Resistor distribute voltage	
BY1	BY1-1	Standby response	Standby push button input and response output [Note 1]	OC door	DC24V、20mA
	BY1-2	24V			
	BY1-3	24V			
	BY1-4	Standby input [Note 2]		Resistor distribute voltage	
DZD	DZD-1	Up arrival gong output	Arrival light output	OC door	DC24V、20mA
	DZD-2	Down arrival gong output		OC door	DC24V、20mA
	DZD-3	24V Grounding			
	DZD-4	24V			

DZZ	DZZ-1	Arrival gong or buzzer output	Arrival gong output or buzzer output	OC door	DC24V、20mA
	DZZ-2	None			
	DZZ-3	24V Grounding			
	DZZ-4	24V Or buzzer			
S1	CAN Communication terminal resistor skip wire				
JC	Testing skip wire		P	Programming port	
AN	To set push button		SZ	To set skip wire	
DS	Electric lock skips wire. When standby push button is set to input of electric lock & fire state, please short –circuit the skip wire of electric lock and fire landing.				
Note 1: According to different programs, standby push button can be set to electric lock input, fire input, the handicapped push button, visitor's push button state. Note 2: General program of factory default: Standby input 0 is electric lock input. Standby input 1 is fire input.					

Four. Landing address setting

Set skip wire by pushing setting button or short-circuit, it will enter landing address setting state after two seconds.

After entering this function, "S" will be displayed on direction dot matrix, landing dot matrix shall display current landing. For example,



S means landing address setting

1 5 means address setting

As a landing display board, address value corresponds to the matching floor number. I.e. Landing board in the lowest floor displays"1"; display will increase one after each landing, to the highest floor. The Maximum display number shall not exceed 64. As a car display board, parameter of display address must be set "0".

When there are two car operation panels with separate push button control for front and back door, landing display address for the back door shall begin from 33. Likewise, the Maximum Display address shall not exceed 64.

4.1 Setting method 1

Push setting button, direction dot matrix will display "S" after 2 seconds. Blink for 3 times, you will enter landing address setting. To push the setting button each time or continuously, address will be increased from 1 up to 64. After 64, it will return to 1.

After address setting is finished, please keep push button free for 2 seconds, address number will twinkling and setting will be saved. Landing boards will enter normal operation state.

4.2 Setting method 2

Set skip wire short- circuited for 2 seconds, direction dot matrix will display "S". Twinkling for 3 times, you will enter landing address setting. To push up direction button SH and down direction button XH, you can change

current setting value.

Take off the setting skip wire SZ, direction dot matrix will display “S”. Twinkling for 3 times, current setting will be saved. Landing boards will enter normal operation condition.

Five. Function setting method

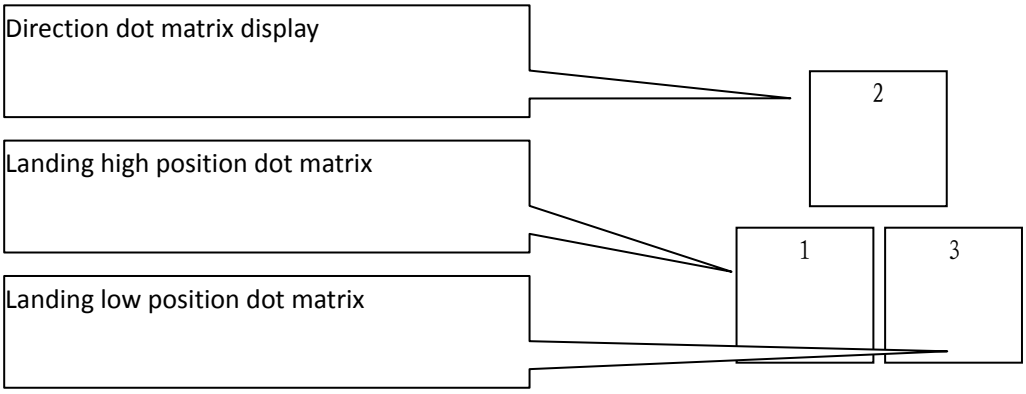
5.1 entering function setting

Choose the nearest landing board and cut off the power (take off the communication cable) Meanwhile, short-circuit testing skip wire JC and electric lock skip wire DS. After electricity is on, you can enter set functions setting.

5.2 setting functions

After you set functions, “U” and “P” will be displayed alternately in the position of direction dot matrix. When “U” is displayed, current client number shall be displayed in the position of landing dot matrix. When“P”is displayed, current program number shall be displayed in the position of landing dot matrix. Please push the button AN to enter function setting.

When you set functions, direction dot matrix displays the code of setting item; landing dot matrix displays current value. For example,



“2”means item code setting. It can set inspection state display.

“1” set car display board. When “inspection” is displayed, it means normal display of car display boards.

“3” set landing display board. When “inspection” is displayed, landing display boards do not show direction, just display character.

When you push the setting button AN to choose dot matrix block, chosen dot matrix will twinkling. Then you can set the value right now. When you push the buttons of up direction SH and down direction XH, you can change current setting value.

5.3 Save setting and sending setting

When you finish setting, you need to save current setting (please refer to 6.20 for detailed operating) to complete setting of landing display boards.

If the whole landing system needs to be updated synchronously, please enter “sending setting” to set items(Please refer to 6.21 for detailed operating) and then send setting result to other display boards and car display boards When elevators are in inspection and stopping state.

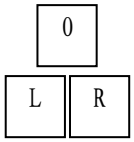
5.4 exit setting

Take off testing skip wire JC and electric lock skip wire DS, landing display boards enter normal working state.

If you take off skip wire before sending and saving parameters, parameters of all the functions will not be changed.

Six. Item setting

6.1 “0” set light emitting diode indicator of car display board

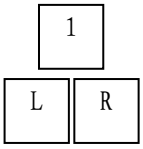


“L” means left indicator setting. “R” means right indicator setting.

Factory default value: 1, 2

L, R parameter: “0”= nothing display, “1”=special. “2”=full load, “3”=overload, “4”=inspection, “5”=fire, “6”=fault, “7”=operation,

6.2 “1”set light emitting diode indicator of landing display boards.

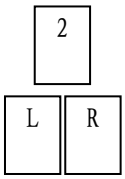


“L” means left indicator setting. “R” means right indicator setting.

Factory default value: 1, 2.

L, R value: “0”= nothing display, “1”=special. “2”=full load, “3”=overload, “4”=inspection, “5”=fire, “6”= fault, “7”=operation,

6.3 “2” set indication of inspection mode



“L” set car display boards. “R” set landing display boards. Factory default:

2, 2

L、R Value: “1”= normal display

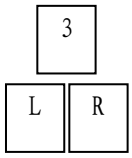
“2 “= stopping displays character, running shows normal display.

“3”= not display direction, just display characters.

“4”= not display landings and directions.

“5”= display directions. Characters and landings will be displayed alternatively（only when character is 1 bit or 2 bit）

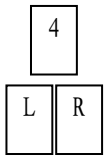
6.4 “3” set character for inspection mode (Characters of car display boards is the same as landing display boards.)



LR value: 01=JX，02=INS. Default: 01

6.5 “4”set indication of parking state

L: set indication of car display boards; R: set indication of landing display boards. Default: 1, 2



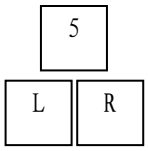
L、R value: “1”= display normally. After elevators arrive at home landing, display will be off after 30 seconds.

“2”=not display directions, display characters. After elevators arrive at home landing, display will be off after 30 seconds.

“3”=not display directions and characters.

“4”=not display directions, to display characters (only for landing display boards)

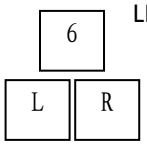
6.6 “5”-set display characters of parking state. (Characters of car display boards are the same as landing display boards.)



LR value: 01=ZT，02=PARK，03-

Default: 01

6.7 “6” set full load. (Only for landing display boards)



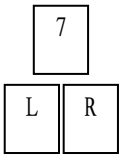
LR Value: 01= display normally

02= display directions and characters

03= display directions, Characters and landings will be displayed alternatively （only when character is 1 bit or 2 bit）

Default: 01

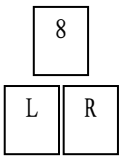
6.8 “7”set character display of full load state. (Only for landing display boards)



L、R value: 01=MZ，02=MY，03=FL，04=FULL LOAD。

Default: 01

6.9 “8” set character display of overload state (Only for car display boards)



LR value: 01 = display normally

02 = display directions and characters.

03= character will be displayed if stopping. Running will display normally.

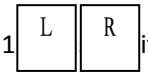
04 = display directions, Characters and landings will be displayed alternatively（only when character is 1 bit or 2 bit）

Default: 03

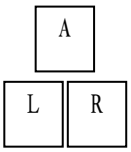
6.10 “9” set character display of overload state (only for car display boards)

LR value: 01=CZ，02=OL，03=OVER LOAD

Default: ： 01

6.1 

itial state display of fire (only for landing display board).



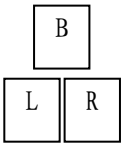
LR value: 01= display normally

02=not display landings and directions.

03= the same as fire setting

Default: 02

6.12 “B” set display of fire mode.



L= setting for car display board, R=setting for landing display board

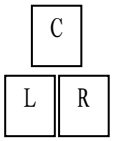
Default: 1, 1

L、R value: 1 = display normally

2= it will be displayed if stopping. Running will display normally.

3= display directions. Characters and landings will be displayed alternatively （only when character is 1 bit or 2 bit）

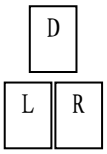
6.13 “C” set characters in fire mode. (Characters of car display boards are the same as landing display board.



LR value: 01=XF，02=FR，03=FIRE

Default: 01

6.14 “D” set display for fault. (Only for car display boards)



LR value: 01= display normally

02 =display characters

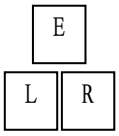
03= it will be displayed if stopping. Running will display normally.

04 = Characters and landings will be displayed alternatively.

Default: 03

fault display ： fault position F、 door open fault N, door close fault U, stop fault O

6.15 “E” set direction arrow.



L value ： 0 =thin arrow

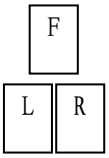
1=thick arrow

R value ： 1 = not roll when running

2= roll when running

Default ： 02

6.16 “F” display mode



L value ： 0 curtain display 1 vertical rolling display

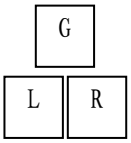
2 Horizontal rolling display 3 unrolling

Default: 0

R value: 0= not to twinkle when landing change, 1= to twinkle when landing change,

Default: 0

6.17 “G” set arrival light and arrival gong.



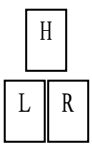
L Arrival light: 0= twinkle

1= not twinkle

R duration of arrival gong signal: （2+N*0.5）second

Default: 00

6.18 “H” display only for single-digit. (Only effect on 11*7 dot matrix)



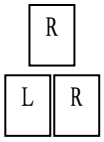
L: Null

R: 0 = middle display

1= Place of units will be displayed

Default ： 0

6.19 “R” resume defaults before delivery

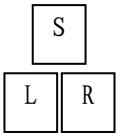


L=5， R=5 resume defaults before delivery.

R twinkle, and L=0， R=0 successful renewal.

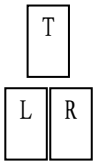
This function just resumes current setting to initial value before delivery. Saving has not been set.

6.20 “S” saving setting



L=5， R=5 saving setting, S twinkle and L=0， R=0 means that current saving is set successfully.

6.21 “T” setting of saving and sending



L=5， R=5 saving and sending setting for 3 times. During sending, L, R will display balance sending times.

T twinkle L=0， R=0 means that it has been sent to other landing display boards in the system including car display board.

T twinkle L=1， R=1 means sending failure.

Note: The function must be set when elevator is under inspection and parking condition. Otherwise, other landing display boards can not receive parameters.