沈阳蓝光
SHENYANG BLUELIGHT

Shenyang Bluelight New Generation Technology Co., Ltd

Model Selection Manual for Bluelight Call board

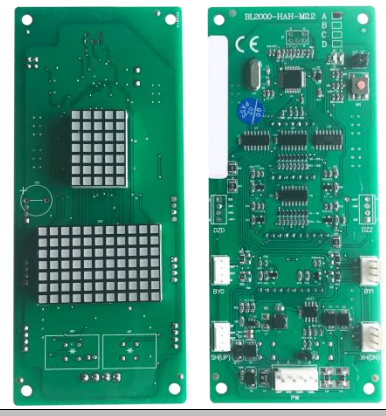
V4.3.4

Center of production planning & popularzing

2025-02-26

Contents

Dot Matrix Display Board

Model	BL2000-HAH-M2.2	Order information on: A conventional supply cycle.B.C contact the sales manager to confirm
Type of dot matrix	Square dot matrix	
Display Direction	Vertical	
Dimensions of PCB	150mm*65mm*23mm	
Dimensions of Installation Baseboard	186mm*70mm*27mm	
LED Pilot Lamp (Optional)	Left & right	

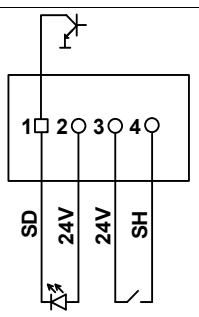
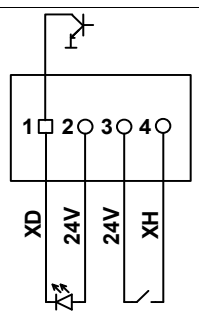
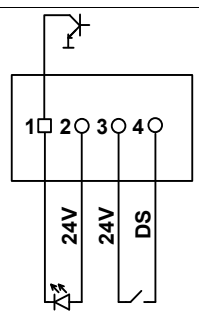
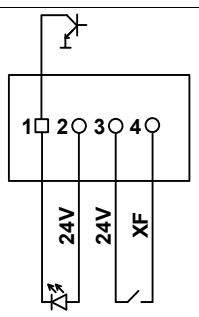
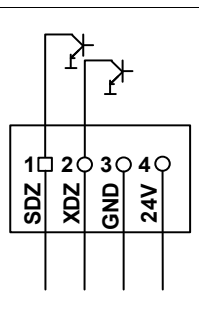
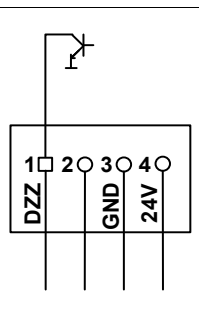
Information for similar type

Model	Display color	PCB color
BL2000-HAH-M2.2 A/B/C	Red/orange/blue	green
FR2000-HAH-V9.3 A/B	Red/orange	black

Terminal definition and function description

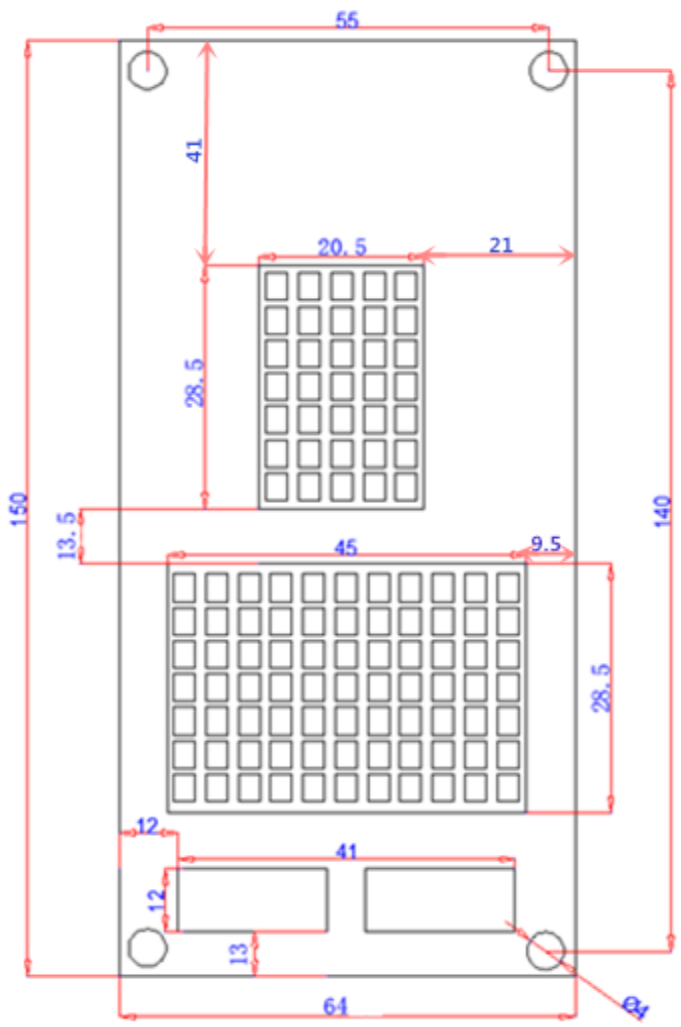
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	3.96-4180°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4180°	Up call button	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4180°	Down call button	Down call answer(XD)	24V	24V	Down call input(XH)
BY0	2.54-4180°	Serial parking input	Standby answer	24V	24V	Serial parking input(DS)
BY1	2.54-4180°	Serial fire input	Standby answer	24V	24V	Serial fire service(XF)
DZD	2.54-4180°	Arrival lamp output	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	GND	24V
DZZ	2.54-4180°	Arrival bell output	Arrival bell output(DZZ)	Unused	GND	24V
S1	2.54-2180°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2180°	Address iumper setting	Refer to Appendix A.1&A.2 for details.			
AN		Address setting key	Refer to Appendix A.1&A.2 for details.			
LED pilot lamp display		Default setting:Left for User Right for Full load	These LEDs can be variously configured. Refer to Appendix B.1 for detais.			
JC、SZ	2.54-2180°	Function setting jumper	Short JC and SZ at the same time, after power on, enter the fuction setting mode. Refer to appendixB.1 for details.			

Terminal connection diagram

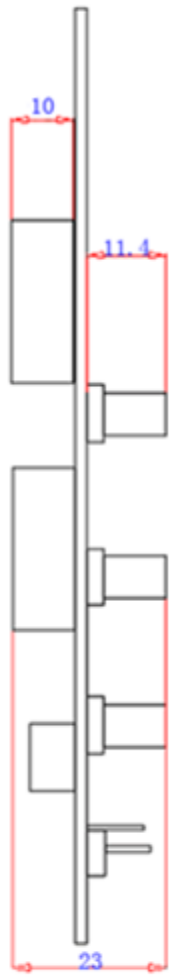
SH	XH	BY0	BY1	DZD	DZZ
					

Note: The square bond pad of foot pins on terminal's back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

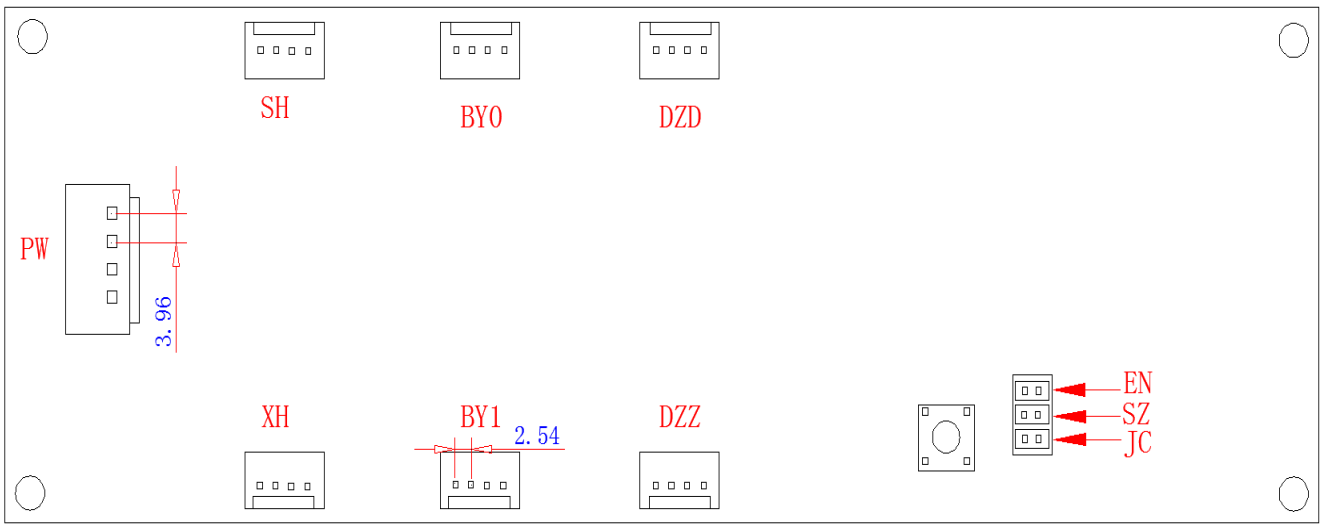
BL2000-HAH-M2.2 Dimensional Drawing



Dimensional Drawing of the front

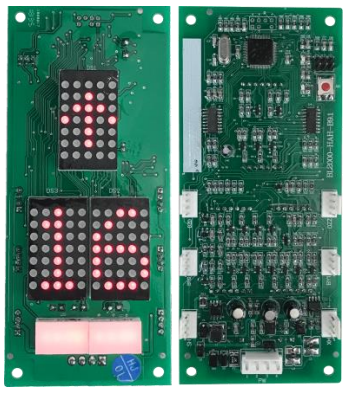


Dimensional Drawing of side



Dimensional Drawing of the back

Note: Dimensions of installation baseboard refer to Appendix C -figure 1 for details.

Model	BL2000-HAH-B9.1	Order information on: contact the sales manager to confirm
Type of matrix	Round dot matrix	
Display direction	Vertical	
Dimensions of PCB	150mm*65mm*23mm	
Dimensions of Installation Baseboard	186mm*70mm*27mm	
LED Pilot Lamp (Optional)	Left & right	

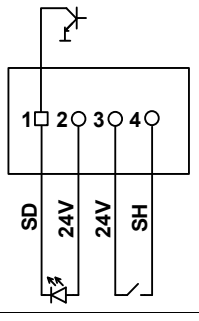
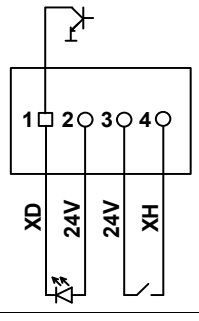
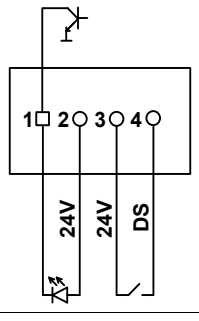
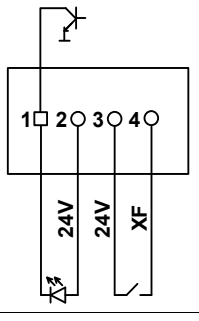
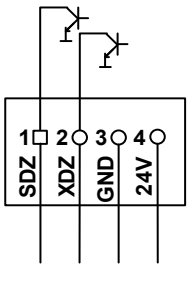
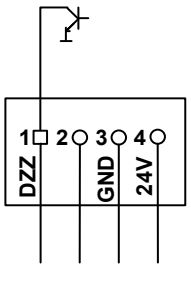
Information for similar type

Model	Display color	PCB color
BL2000-HAH-B9.1 A	Red	green

Terminal definition and function description

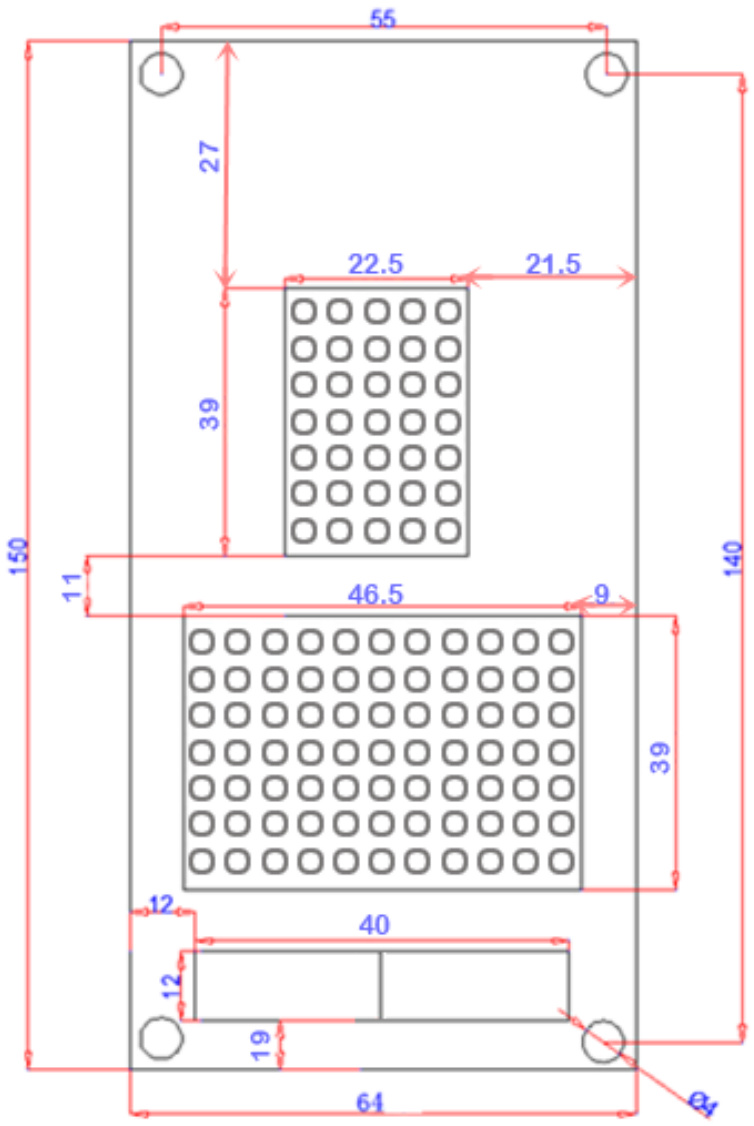
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	3.96-4 180°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4 180°	Up call button	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4 180°	Down call button	Down call answer(XD)	24V	24V	Down call input(XH)
BY0	2.54-4 180°	Serial parking input	Standby answer	24V	24V	Serial parking input(DS)
BY1	2.54-4 180°	Serial fire input	Standby answer	24V	24V	Serial fire service(XF)
DZD	2.54-4 180°	Arrival lamp output	Up arrival lamp output(SDZ)	Down arrivel lamp output(XDZ)	GND	24V
DZZ	2.54-4 180°	Arrival bell output	Arrival bell output(DZZ)	Unused	GND	24V
S1	2.54-2 180°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2 180°	Address jumper setting	Refer to Appendix A.1 for details.			
AN		Address setting key	Refer to Appendix A.1 for details.			
LED pilot lamp display		Default setting :Left for User Right for Full load	These LEDs can be variously configured. Refer to Appendix B.1 for details.			
JC、EN	2.54-2 180°	Function setting jumper	Short JC and EN at the same time，after power on，enter the function setting mode. Refer to appendixB.1 for details.			

Terminal connection diagram

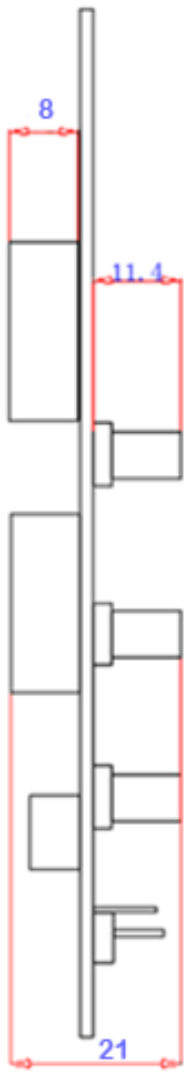
SH	XH	BY0	BY1	DZD	DZZ
					

Note: The square bond pad of foot pins on terminal's back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

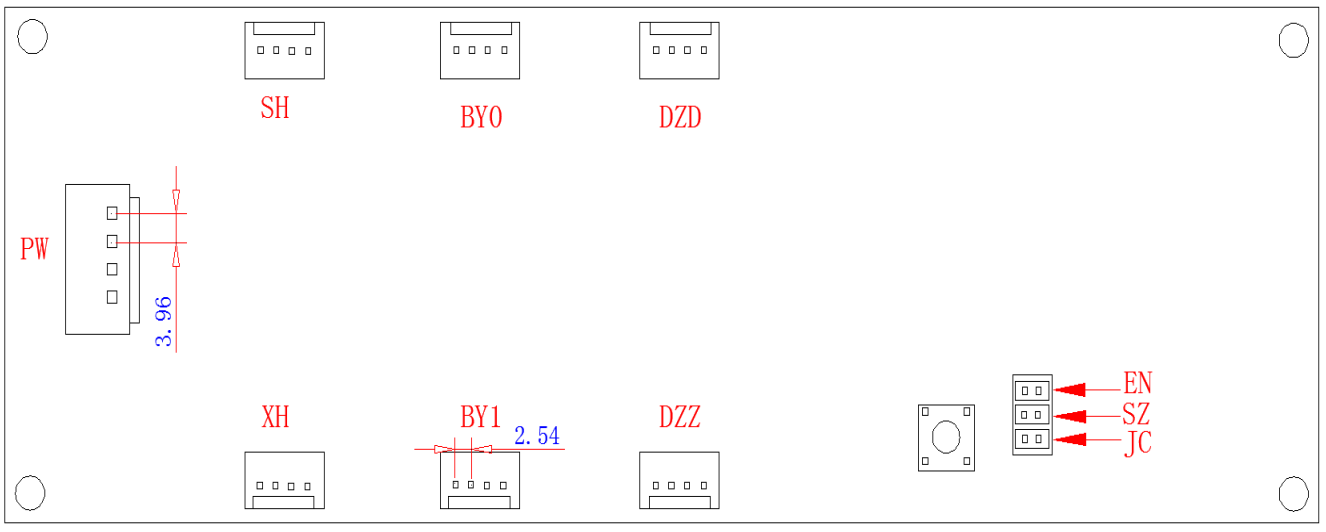
BL2000-HAH-B9.1 Dimensional Drawing



Dimensional Drawing of the front

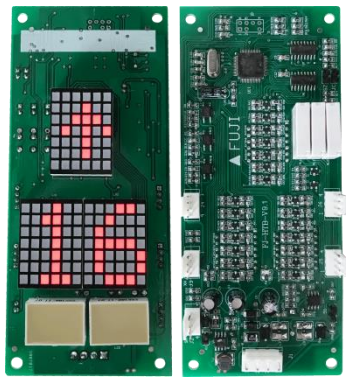


Dimensional Drawing of side



Dimensional Drawing of the back

Note: Dimensions of installation baseboard refer to Appendix C -figure 1 for details.

Model	BL2000-HAH-M4.1	Order information on: contact the sales manager to confirm
Type of dot matrix	Square dot matrix	
Display Direction	Vertical	
Dimensions of PCB	150mm*64mm*23mm	
Dimensions of Installation Baseboard	186mm*70mm*27mm	
LED Pilot Lamp (Optional)	Left & right	

Information for similar type

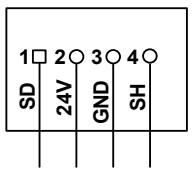
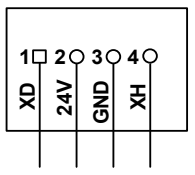
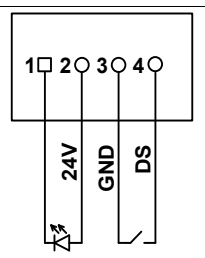
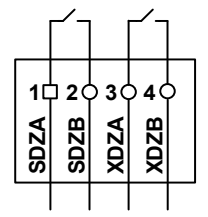
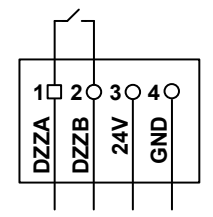
Model	Display color	PCB color
BL2000-HAH-M4.1 A/B	Red /orange	Green
FJ-HTB-V9.1 A/B	Red /orange	Green

Terminal definition and function description

Terminal		Terminal specifications	Function	Pin definition			
BL2000-HAH-M4.1	FJ-HTB-V9.1			1	2	3	4
PW	J1	3.96-4 180°	Power &communication	24V	GND	CANH	CANL
SH	J2	2.54-4 180°	Up call button	Up call answer(SD)	24V	24V	Up call input(SH)
XH	J3	2.54-4 180°	Down call button	Down call answer(XD)	24V	24V	Down call input(XH)
BY	J4	2.54-4 180°	Serial electric lock input	Standby answer	24V	24V	Serial electric lock input (DS)
DZD	J5	2.54-4 180°	Arrival lamp output	Up arrival lamp output A(SDZ-A)	Up arrival lamp output B(SDZ-B)	Down arrival lamp output A (XDZ-A)	Down arrival lamp output B(XDZ-B)
DZZ	J6	2.54-4 180°	Arrival bell output	Arrival bell output A (DZZ-A)	Arrival bell output B(DZZ-B)	24V	GND
S1		2.54-2 180°	Serial communication terminal resistor jumper	Short jumper to cinnnect serial communication resitor.			
SZ		2.54-2 180°	Address jumper setting	Refer to Appendix A.1 for details.			
AN			Address setting key	Refer to Appendix A.1 for details.			
LED pilot lamp display			Default setting :Left for User ,Right for Full load	These LEDs can be variously configured. Refer to Appendix B.1 for details.			
JC		2.54-2 180°	Function setting jumper	Short JC,after power on,enter the self-test function， press the up-call button and the down-call button at same time,after 2 seconds,enter the function setting mode. Refer to appendixB.1 for details.			

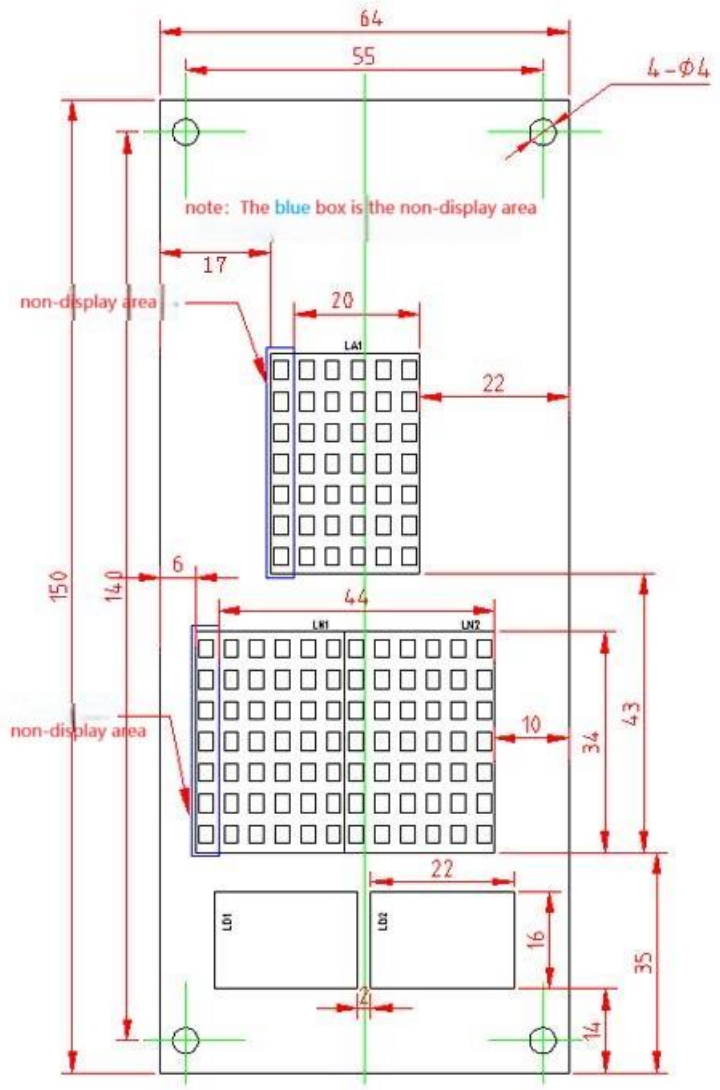
Terminal connection diagram

BL2000-HAH-M4.1/ FJ-HTB-V9.1

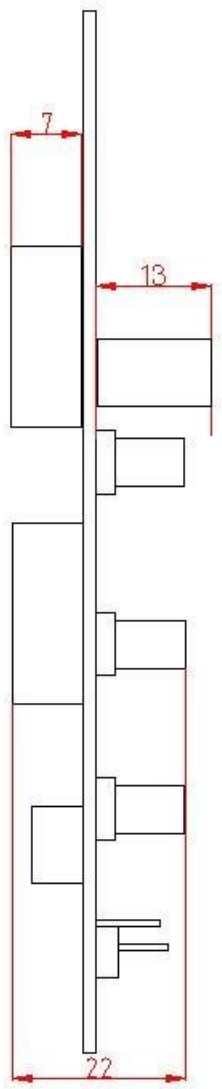
SH/J2	XH/J3	BY/J4	DZD/J5	DZZ/J6
				

Note: The square bond pad of foot pins on terminal’s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

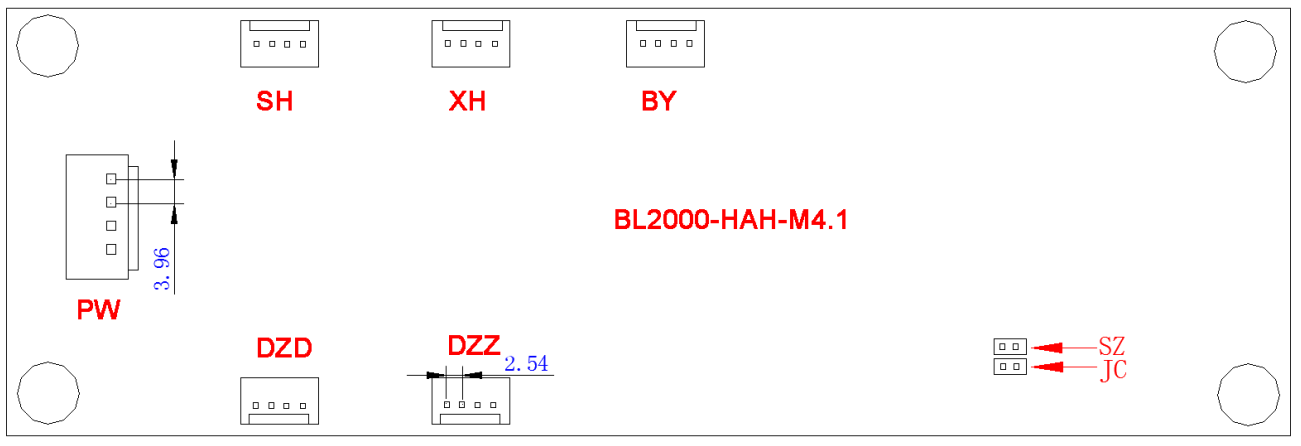
BL2000-HAH-M4.1/FJ-HTB-V9.1Dimensional Drawing



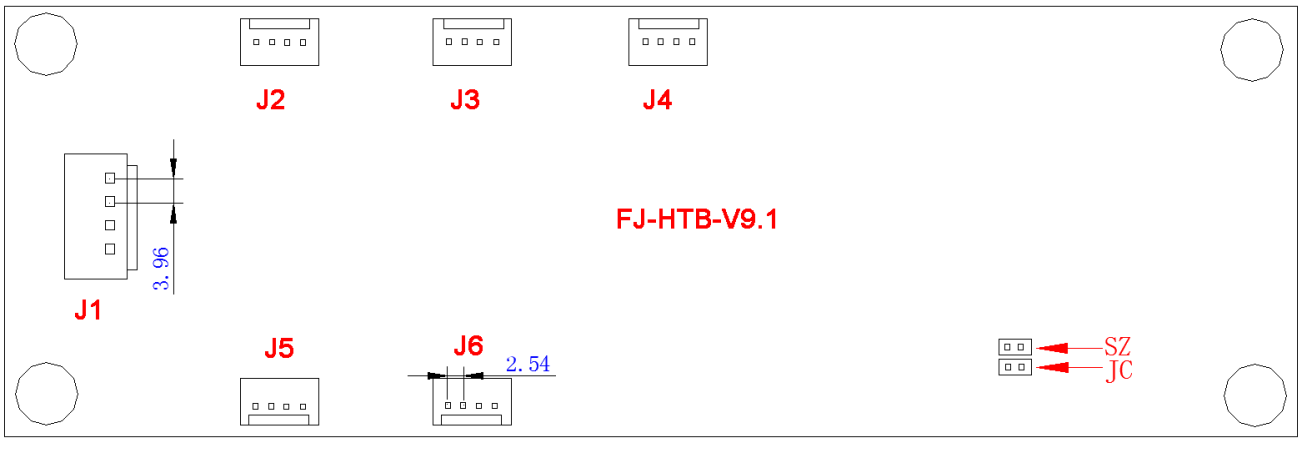
Dimensional drawing of the front



Dimensional Drawing of side



BL2000-HAH-M4.1 Dimensional Drawing of the back



FJ-HTB-V9.1 Dimensional Drawing of the back

Note: Dimensions of installation baseboard refer to Appendix C -figure 1 for details.

Model	BL2000-HAH-D10	Order information on： contact the sales manager to confirm
Type of dot matrix	Square dot matrix	
Display direction	Vertical	
DIMENSIONS OF PCB	144mm*70mm*11mm	
Dimensions of Installation Baseboard	No installation baseboard	
LED pilot lamp	None	

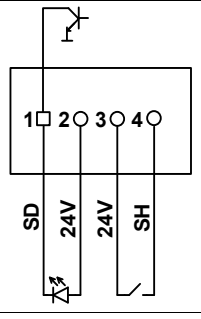
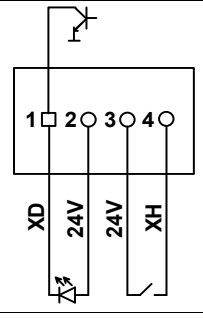
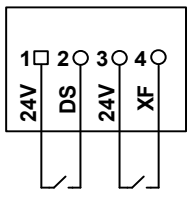
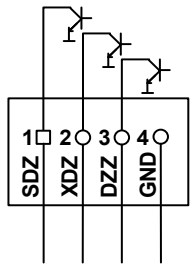
Information for similar type

Model	Display color	PCB COLOR
BL2000-HAH-D10-A/B	Red/orange	Green

Terminal definition and function description

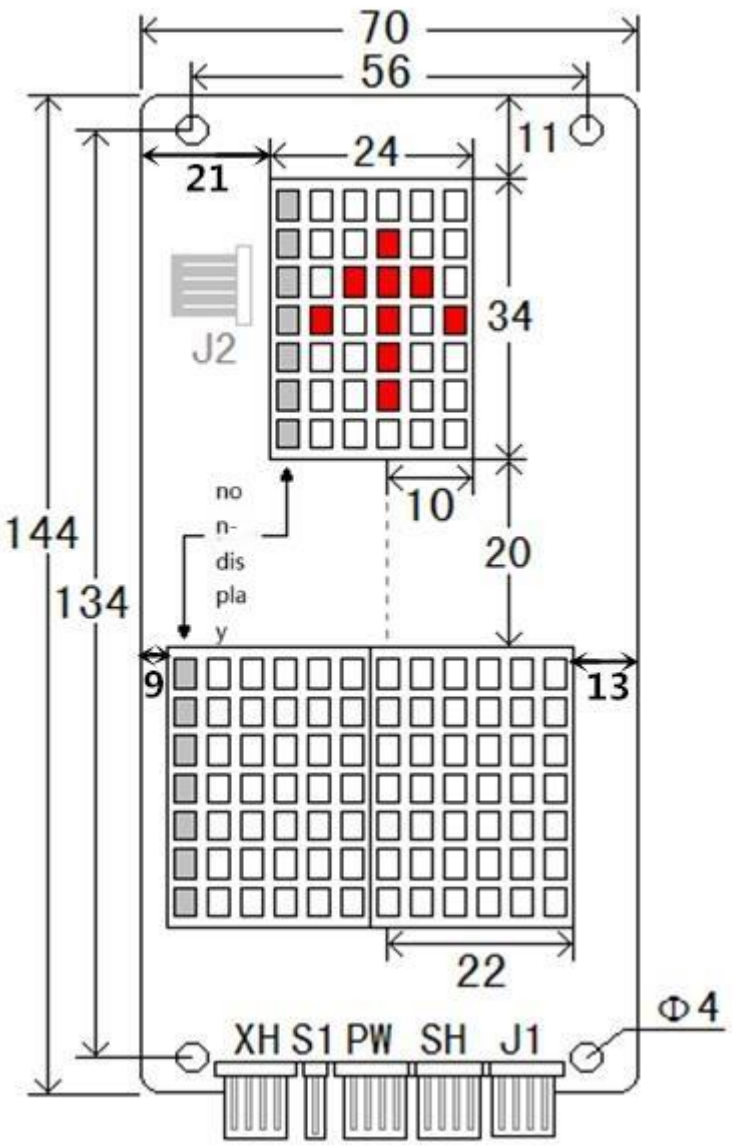
Terminal	Terminal Model	function	Pin definition			
			1	2	3	4
PW	2.54-4 90°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4 90°	Up call button	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4 90°	Down call button	Down call answer(XD)	24V	24V	Down call input(XH)
J1	2.54-4 90°	serial input port	24V	Serial parking input(DS)	24V	Serial fire input(XF)
J2	2.54-4 90°	Arrival input port	Up arrival lamp output (SDZ)	Down arrival lamp output (XDZ)	Arrival bell output (DZZ)	GND
S1	2.54-2 90°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2 90°	Address jumper setting	Refer to Appendix A.1&A.2 for details.			
AN		Address setting button	Refer to Appendix A.1&A.2 for details.			
JC、SZ	2.54-2 90°	Function setting jumper	Short JC and SZ at the same time，after power on，enter the function setting mode. Refer to appendixB.1 for details.			

Terminal connection diagram

SH	XH	J1	J2
			

Note: The square bond pad of foot pins on terminal’s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

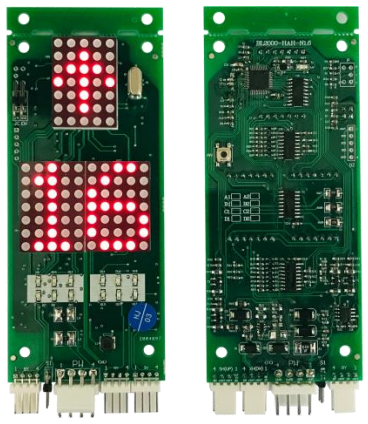
BL2000-HAH-D10 Dimensional Drawing



Dimensional Drawing of the front

Dimensional Drawing of side

Dimensional Drawing of the back

Model	BL2000-HAH-N1.6	Order information on: A1 conventional supply cycle.B1/A2/B2 contact the sales manager to confirm
Type of dot matrix	Round/ Square dot matrix	
Display direction	Vertical	
DIMENSIONS OF PCB	147mm*56mm*8.5mm	
Dimensions of Installation Baseboard	No installation baseboard	
LED Pilot Lamp (Optional)	Left/right	

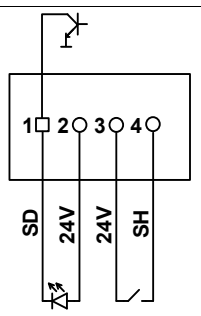
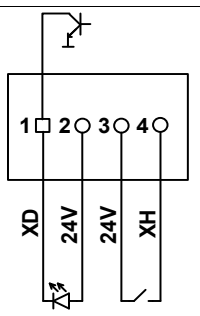
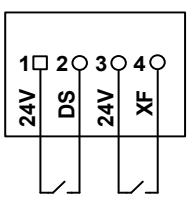
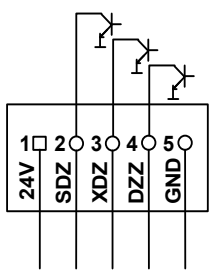
Information for similar type

Model	Display color	PCB COLOR
BL2000-HAH-N1.6 A1/B1/ A2/B2	red /orange	green

Terminal definition and function description

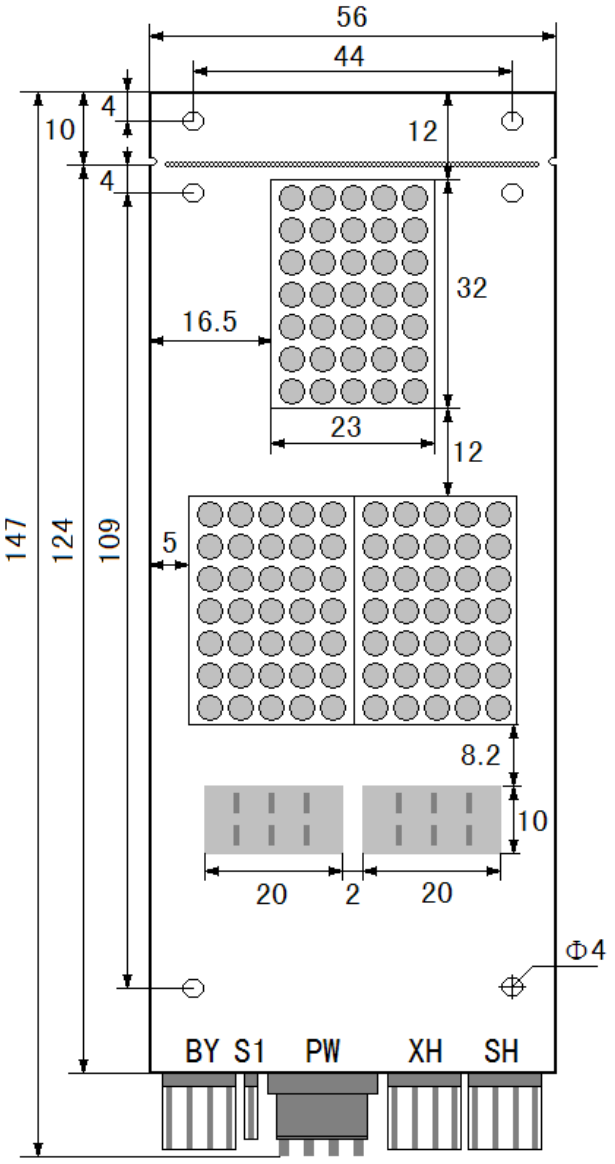
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	3.96-4 90°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4 90°	Up call button	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4 90°	Down call button	Down call answer(XD)	24V	24V	Down call input(XH)
BY	2.54-4 90°	Serial input port	24V	Serial electric lock input (DS)	24V	Serial fire service(XF)
DZ	2.54-5	Arrival output port	1-24V	2- Up arrival lamp output (SDZ)	3- Down arrival lamp output (XDZ)	4- Arrival bell output (DZZ)
			5-GND			
S1	2.54-2 90°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
EN	2.54-2 90°	Address jumper setting	Refer to Appendix A.1&A.2 for details.			
AN		Address setting key	Refer to Appendix A.1&A.2 for details.			
LED pilot lamp display		Default setting :Left for User Right for Full load	These LEDs can be variously configured. Refer to Appendix B.1 for details.			
JC、EN	2.54-2 90°	Function setting jumper	Short JC and EN at the same time，after power on，enter the function setting mode. Refer to appendixB.1 for details.			

Terminal connection diagram

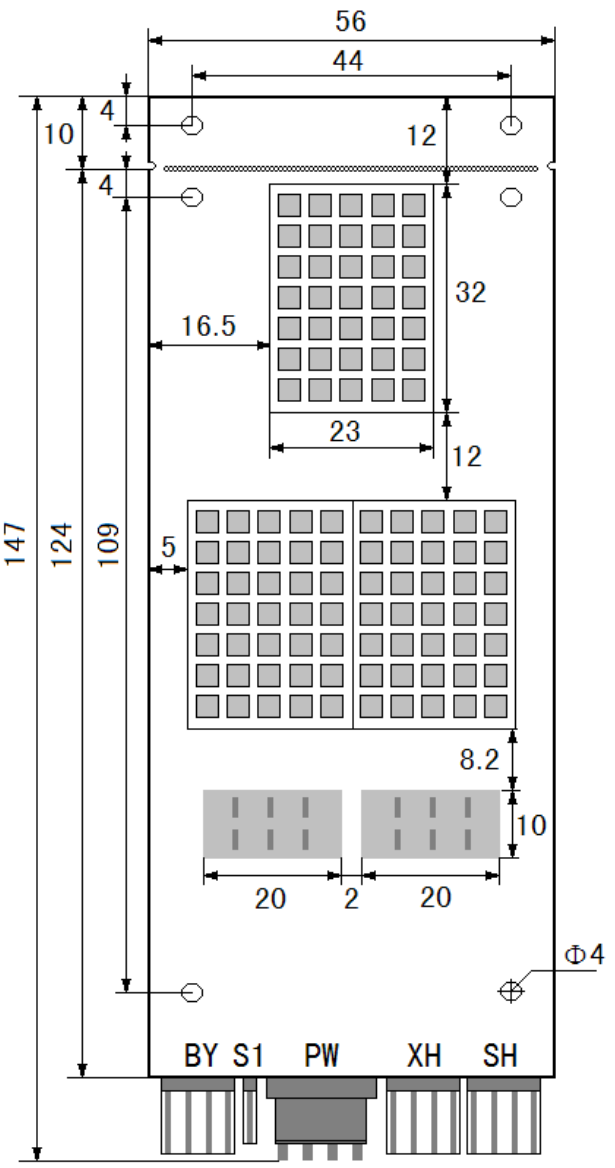
SH	XH	BY	DZ
			

Note: The square bond pad of foot pins on terminal’s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

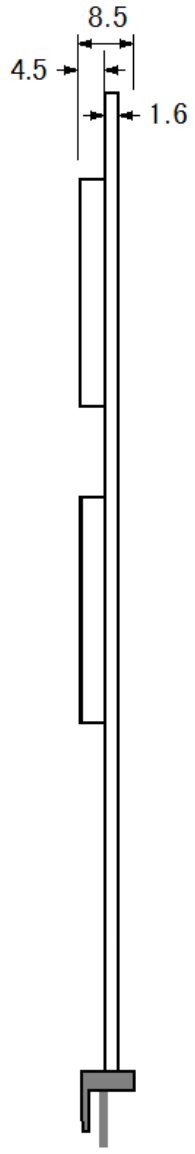
BL2000-HAH-N1.6 Dimensional Drawing



BL2000-HAH-N1.X A1/BL2000-HAH-N1.X B1

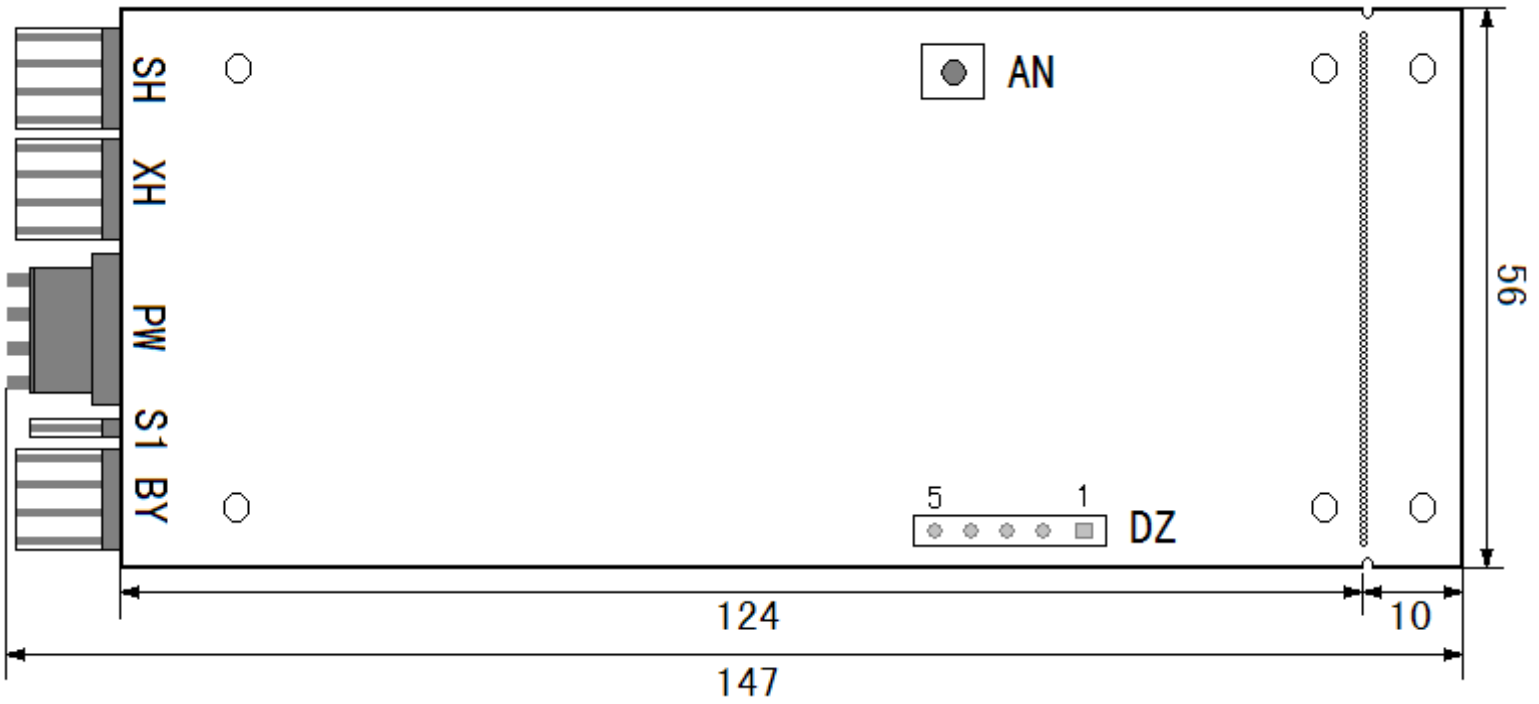


BL2000-HAH-N1.X A2/BL2000-HAH-N1.X B2

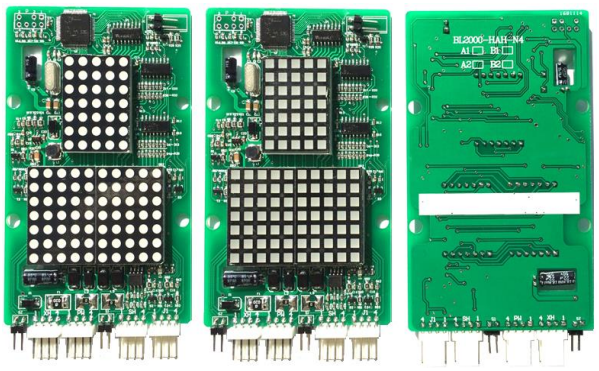


Dimensional Drawing of the front

Dimensional Drawing of side



Dimensional Drawing of the back

Model	BL2000-HAH-N4	Order information on： contact the sales manager to confirm
Type of dot matrix	Round/ Square dot matrix	
Display direction	Vertical	
DIMENSIONS OF PCB	107mm*64mm*7.5mm	
Dimensions of Installation Baseboard	No installation baseboard	
LED Pilot Lamp	None	

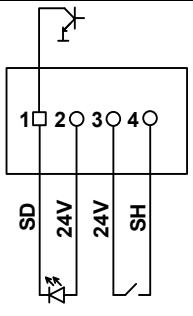
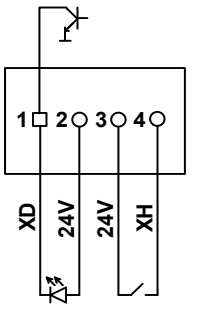
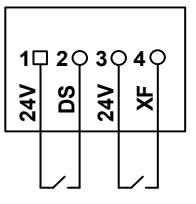
Information for similar type

Model	Display color	PCB COLOR
BL2000-HAH-N4-A1/B1/A2/B2	Red /orange	green

Terminal definition and function description

Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	2.54-4 90°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4 90°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4 90°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
J1	2.54-4 90°	Serial input port	24V	Serial electric-lock input(DS)	24V	Serial fire service(XF)
S1	2.54-2 90°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2 90°	Address jumper setting	Refer to Appendix A.1&A.2 for details.			
JC	2.54-2 90°	Detection function jumper	Short JC after power on， enter the function self-test mode.			
JC、SZ	2.54-2 90°	Function setting jumper	Short JC and SZ at the same time，after power on，enter the function setting mode. Refer to appendixB.1 for details.			

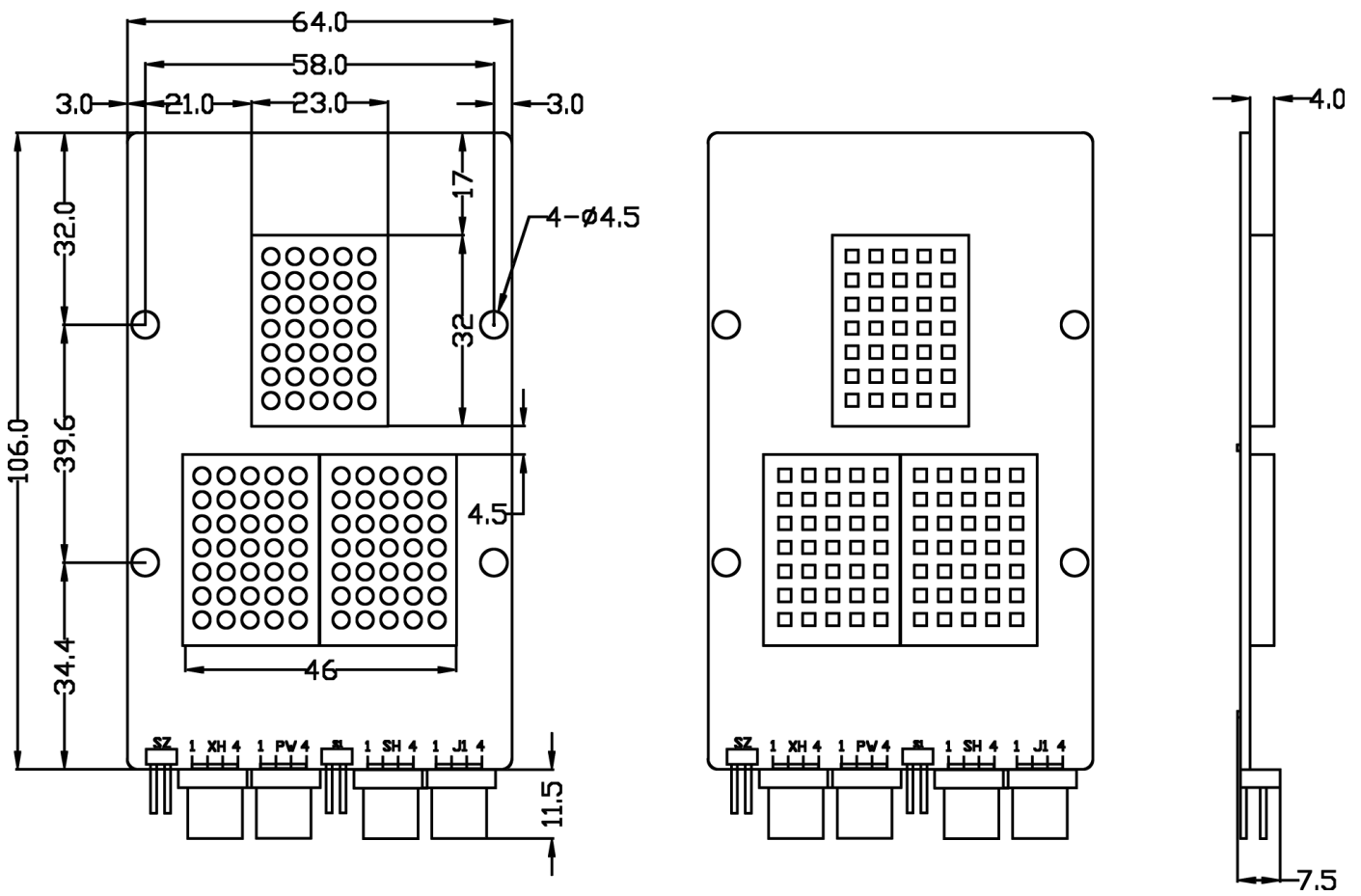
Terminal connection diagram

SH	XH	J1
		

Note: The square bond pad of foot pins on terminal’s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

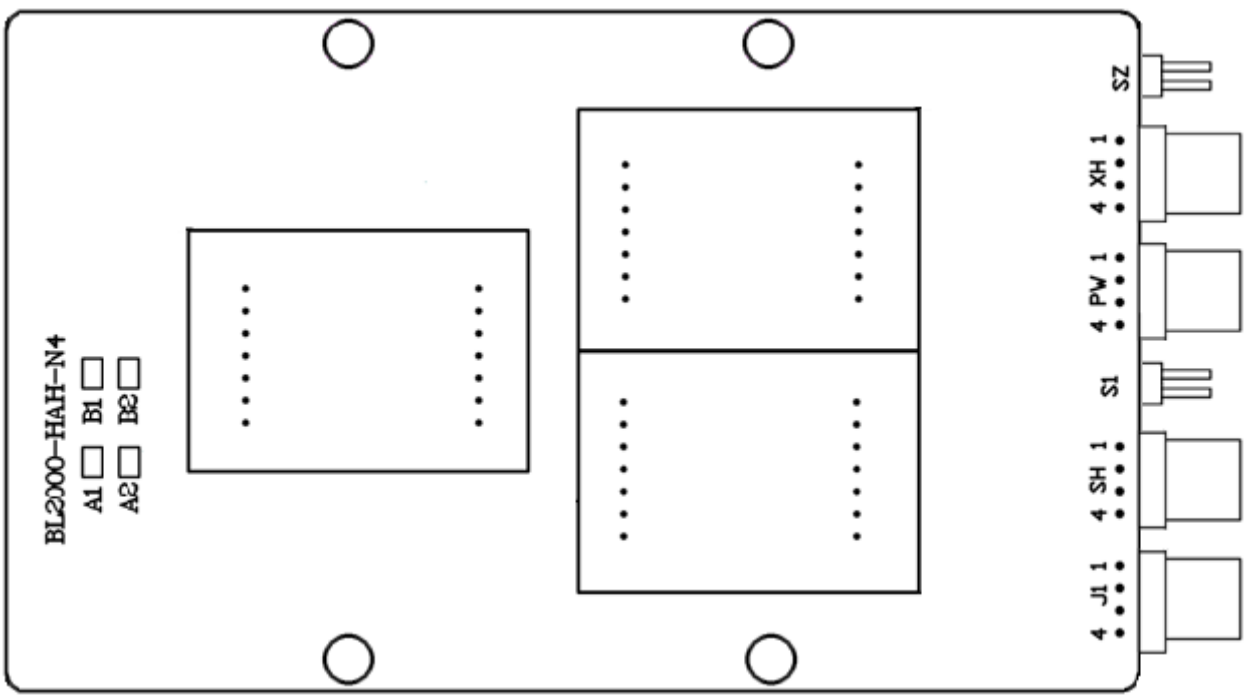
BL2000-HAH-N4 Dimensional Drawing

unit： mm

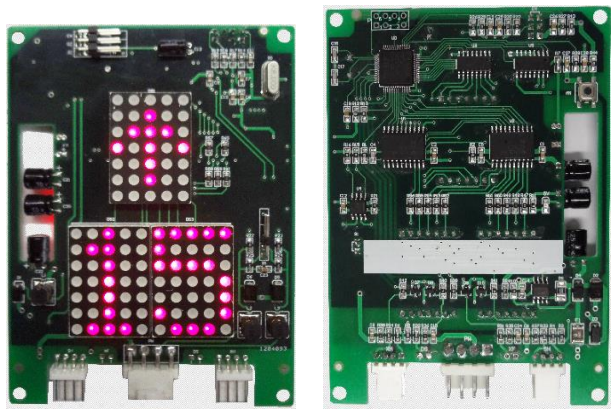


BL2000-HAH-N4 A1 / BL2000-HAH-N4 B1 **BL2000-HAH-N4 A2 / BL2000-HAH-N4 B2**

Dimensional Drawing of the front Dimensional Drawing of side



Dimensional Drawing of the back

Model	BL2000-HAH-N5	Order information on： contact the sales manager to confirm
Type of dot matrix	Round dot matrix	
Display direction	Vertical	
DIMENSIONS OF PCB	113mm*83mm*8.5mm	
Dimensions of Installation Baseboard	No installation baseboard	
LED Pilot Lamp	none	

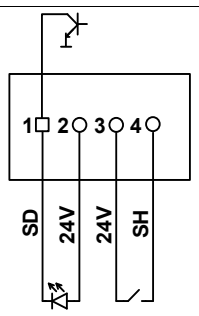
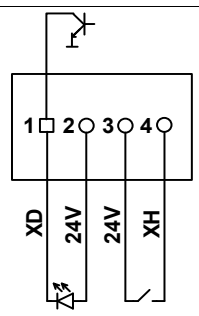
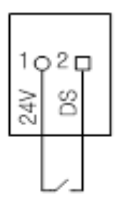
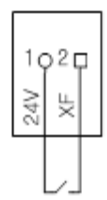
Information for similar type

Model	Display color	PCB COLOR
BL2000-HAH-N5-A/B	Red /orange	green

Terminal definition and function description

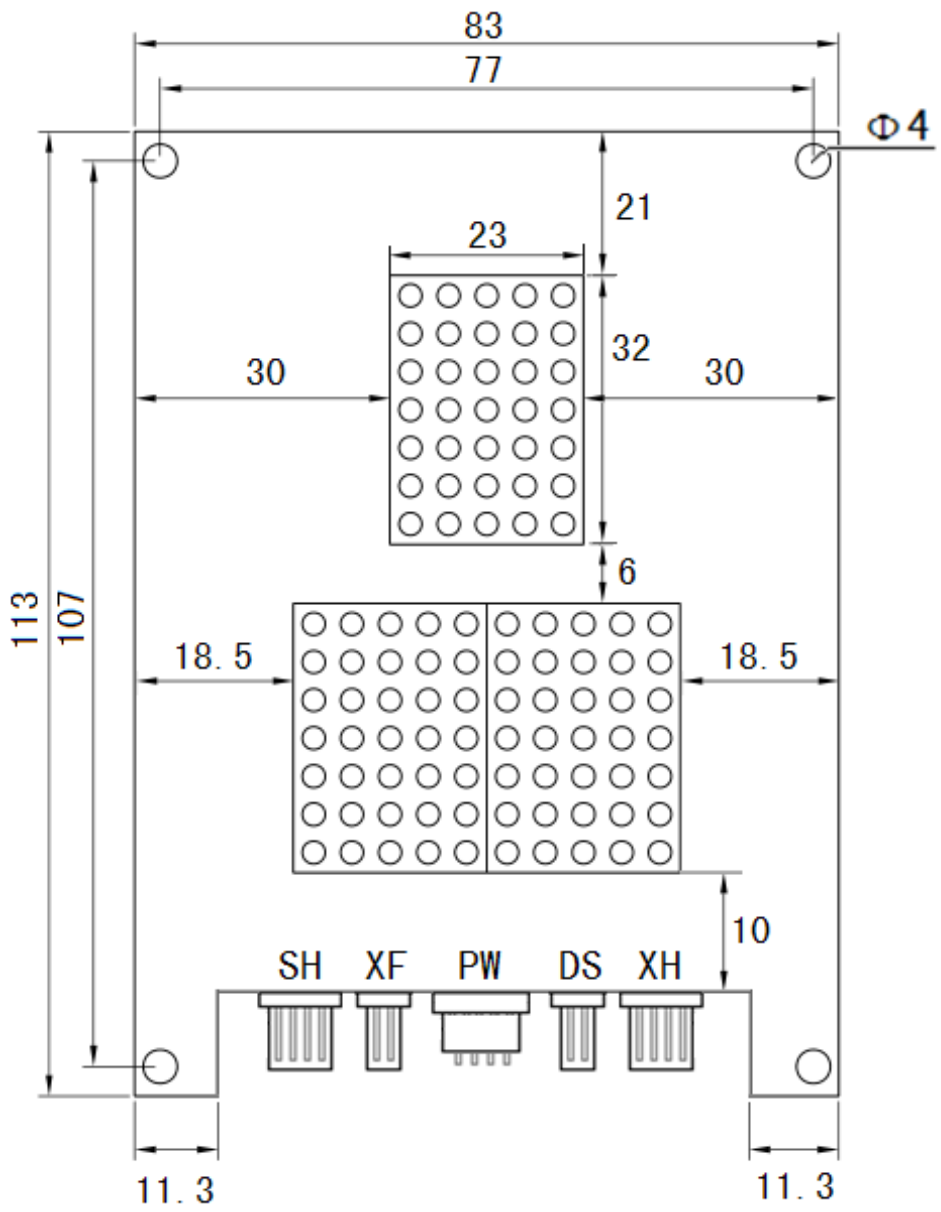
Terminal	Terminal specifications	功能	Pin definition			
			1	2	3	4
PW	3.96-4 90°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4 90°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4 90°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
DS	2.54-2 90°	Serial parking input	24V	Serial parking input(DS)		
XF	2.54-2 90°	Serial fire input	24V	Serial fire service(XF)		
S1	2.54-2 90°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2 90°	Address jumper setting	Refer to Appendix A.1 for details.			
AN		Address setting key	Refer to Appendix A.1 for details.			
JC、EN	2.54-2 90°	Function setting jumper	Short JC and EN at the same time，after power on，enter the function setting mode. Refer to appendixB.1 for details.			

Terminal connection diagram

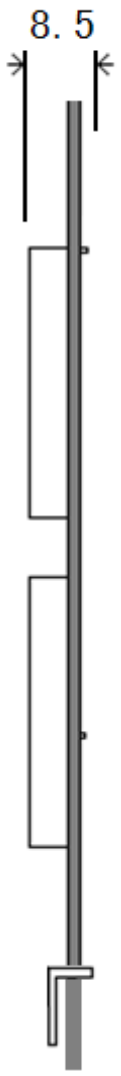
SH	XH	DS	XF
			

Note: The square bond pad of foot pins on terminal’s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

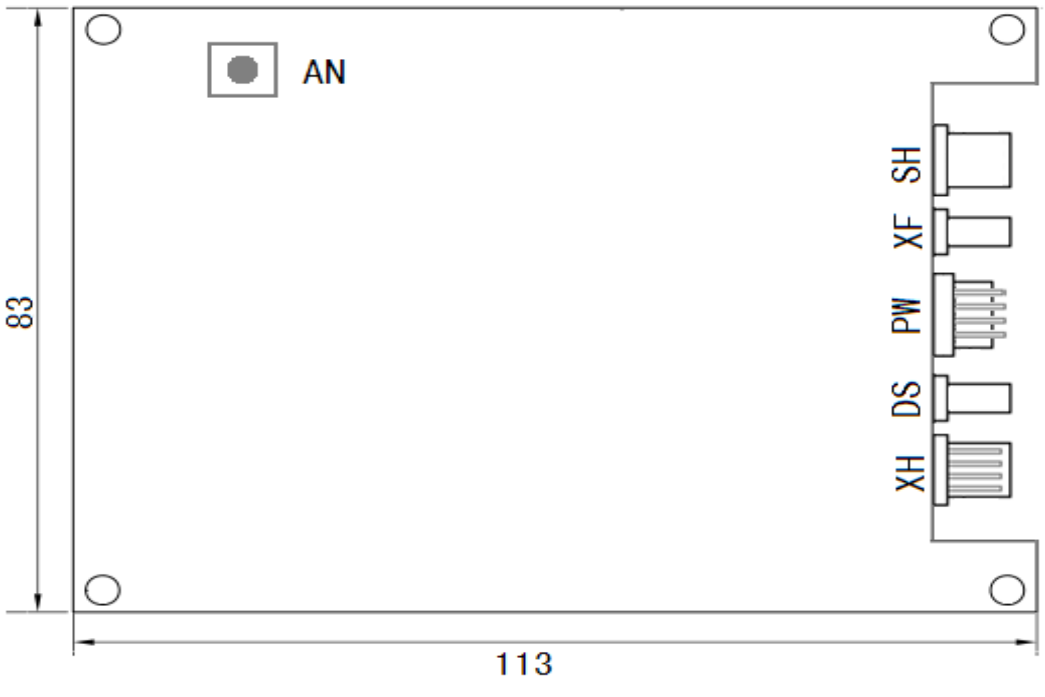
BL2000-HAH-N5 Dimensional Drawing



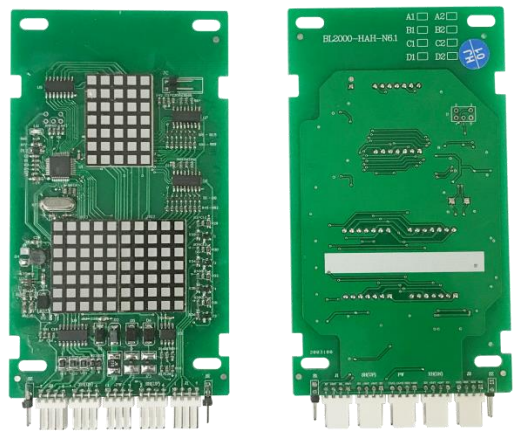
Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

Model	BL2000-HAH-N6.1	Order information on： A2 conventional supply cycle, contact the sales manager to confirm
Type of dot matrix	Round /Square dot matrix	
Display direction	Vertical	
DIMENSIONS OF PCB	134mm*76mm*7.5mm	
Dimensions of Installation Baseboard	No installation baseboard	
LED Pilot Lamp	None	

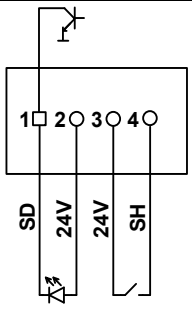
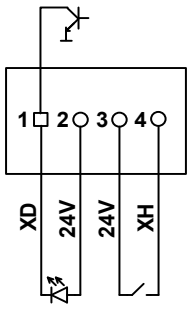
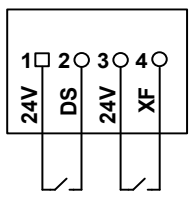
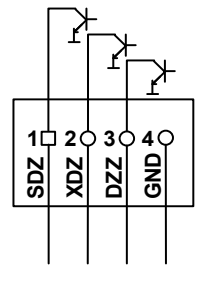
Information for similar type

Model	Display color	PCB COLOR
BL2000-HAH-N6.1-A1/B1/A2/B2/D2	Red/orange	green

Terminal definition and function description

Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	2.54-4 90°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4 90°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4 90°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
J1	2.54-4 90°	Serial input port	24V	Serial parking input(DS)	24V	Serial fire service(XF)
J2	2.54-4 90°	Arrival output port	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	Arrival bell output(DZZ)	GND
S1	2.54-2 90°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2 90°	Address jumper setting	Refer to Appendix A.1&A.2 for details.			
JC	2.54-2 90°	Detection function jumper	Short JC after power on， enter the function self-test mode.			
JC、SZ	2.54-2 90°	Function setting jumper	Short JC and SZ at the same time，after power on，enter the function setting mode. Refer to appendixB.1 for details.			

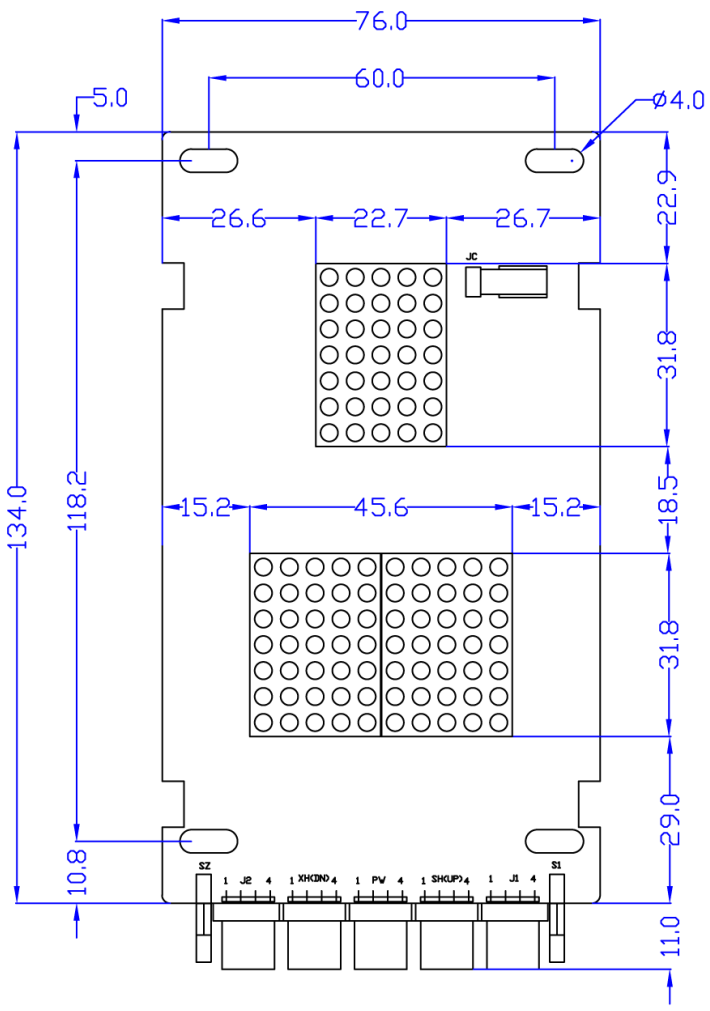
Terminal connection diagram

SH	XH	J1	J2
			

Note: The square bond pad of foot pins on terminal’s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

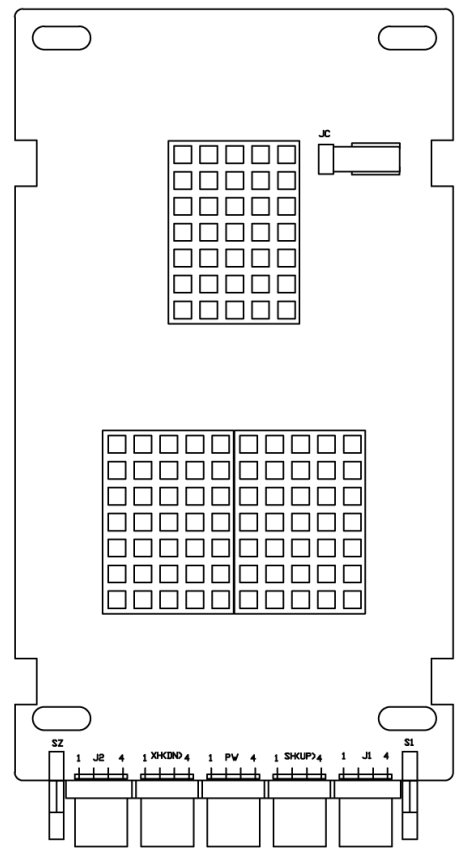
BL2000-HAH-N6.1Dimensional Drawing

unit：mm

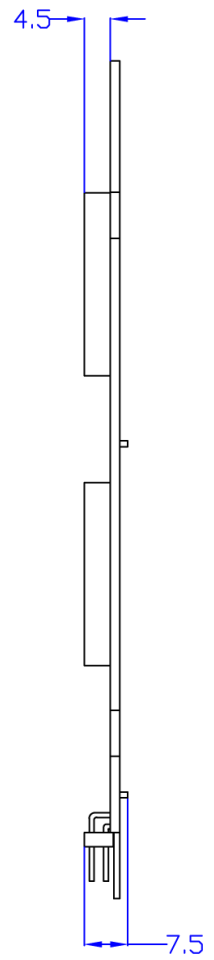


BL2000-HAH-N6.1 A1 / BL2000-HAH-N6.1 B1

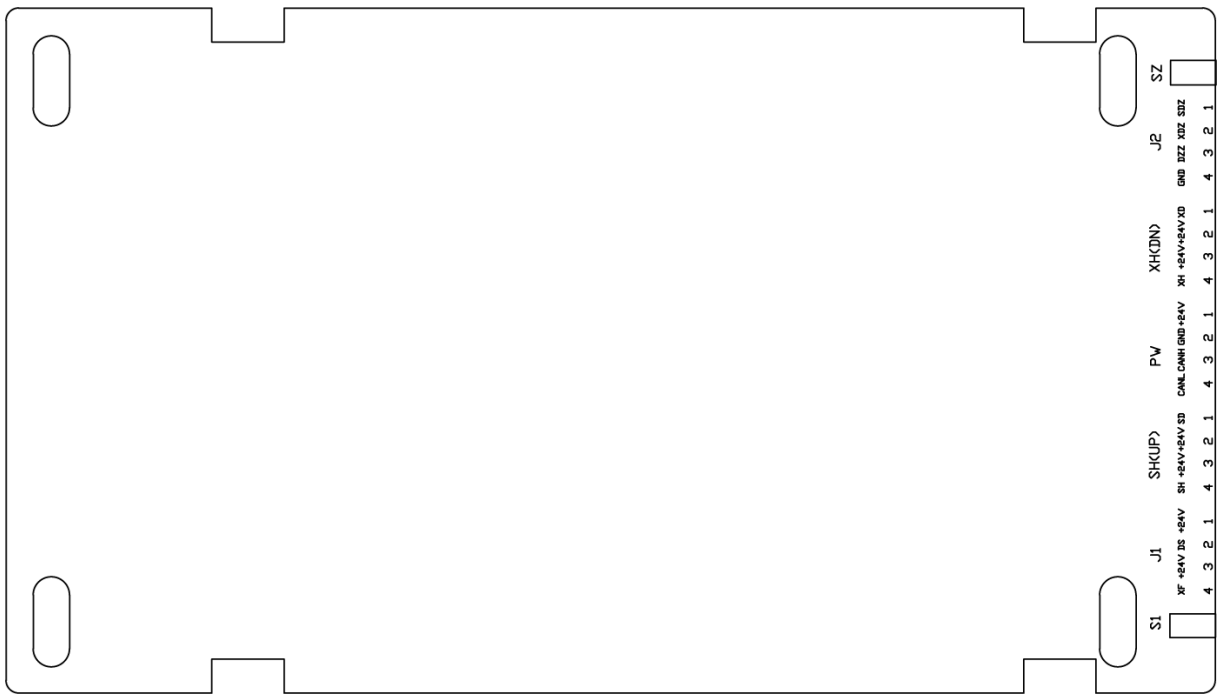
Dimensional Drawing of the front



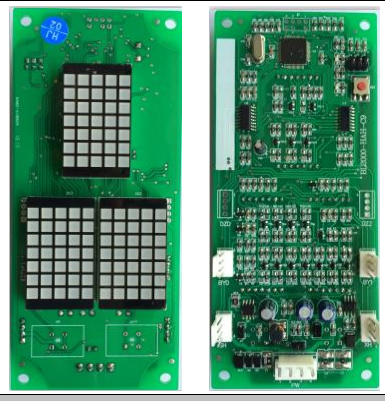
BL2000-HAH-N6.1 A2 / BL2000-HAH-N6.1 B2



Dimensional Drawing of side

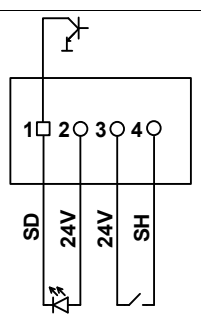
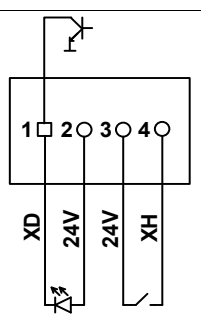
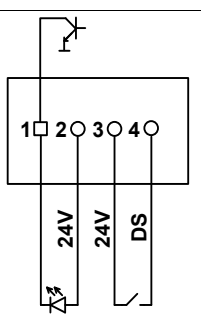
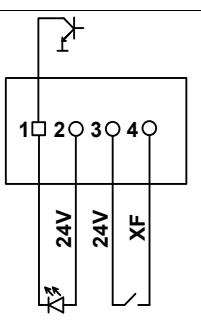
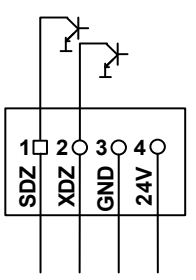
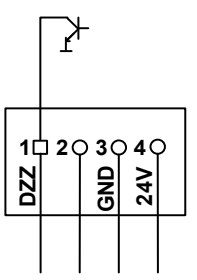


Dimensional Drawing of the back

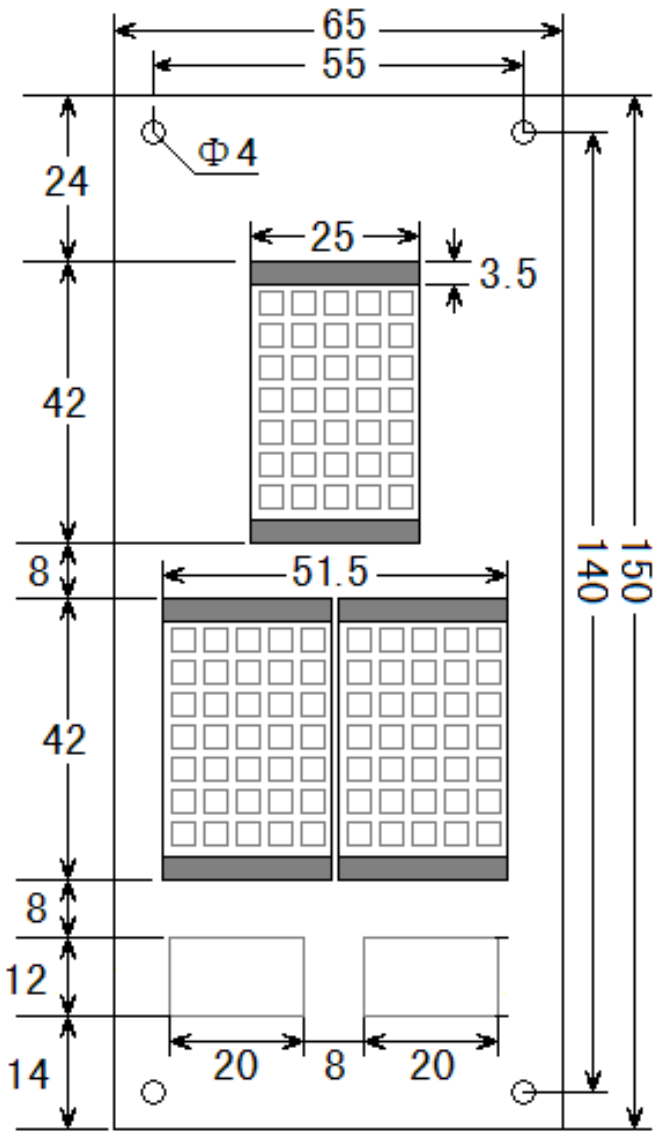
Model	BL2000-HAH-C9	Order information on : red : conventional supply cycle orange: contact the sales manager to confirm
Type of dot matrix	Square dot matrix	
Display direction	Vertical	
DIMENSIONS OF PCB	150mm*65mm*21mm	
Dimensions of Installation Baseboard	186mm*70mm*27mm	
LED Pilot Lamp (Optional)	Left & right	

Information for similar type		
Model	Display color	PCB COLOR
BL2000-HAH-C9 A/B	Red/orange	green

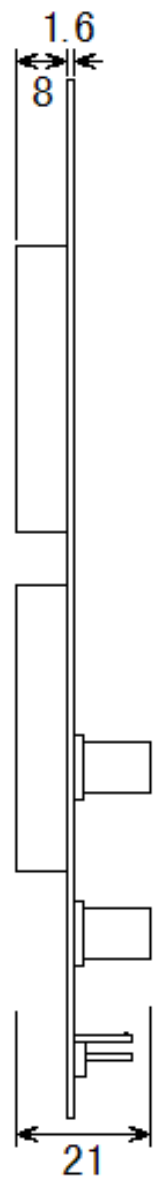
Terminal definition and function description						
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	3.96-4 180°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4 180°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4 180°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
BY0	2.54-4 180°	Serial parking input	Standby answer	24V	24V	Serial parking input(DS)
BY1	2.54-4 180°	Serial fire input	Standby answer	24V	24V	Serial fire service(XF)
DZD	2.54-4 180°	Arrival lamp output	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	GND	24V
DZZ	2.54-4 180°	Arrival bell output	Arrival bell output(DZZ)	Not used	GND	24V
S1	2.54-2 180°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2 180°	Address jumper setting	Refer to Appendix A.1 for details.			
AN		Address setting key	Refer to Appendix A.1 for details.			
LED pilot lamp display		Default setting :Left for User Right for Full load	These LEDs can be variously configured. Refer to Appendix B.1 for details.			
JC、EN	2.54-2 180°	Function setting jumper	Short JC and EN at the same time，after power on，enter the function setting mode. Refer to appendixB.1 for details.			

Terminal connection diagram					
SH	XH	BY0	BY1	DZD	DZZ
					

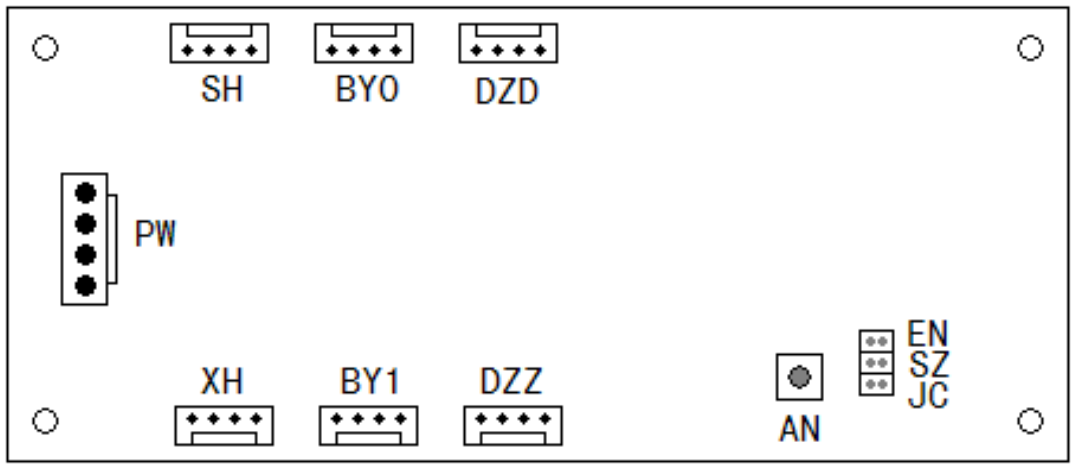
BL2000-HAH-C9 Dimensional Drawing



Dimensional Drawing of the front



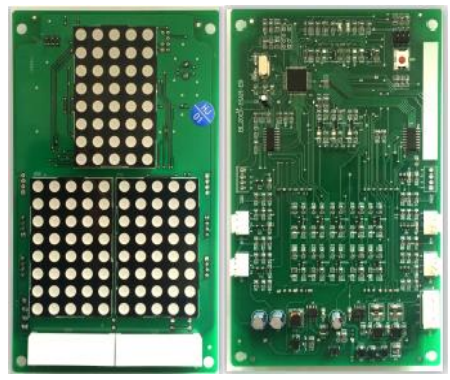
Dimensional Drawing of side



Dimensional Drawing of the back

Note: Dimensions of installation baseboard refer to Appendix C -figure 1 for details.

Note: The square bond pad of foot pins on terminal's back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

Model	BL2000-HAH-E9.1	Order information on： A conventional supply cycle B：contact the sales manager to confirm
Type of dot matrix	Round dot matrix	
Display direction	Vertical	
DIMENSIONS OF PCB	162.3mm*98.5mm*22mm	
Dimensions of Installation Baseboard	No installation baseboard	
LED Pilot Lamp	Left & right	

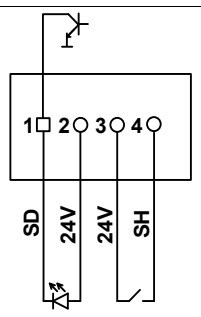
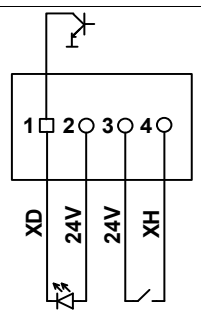
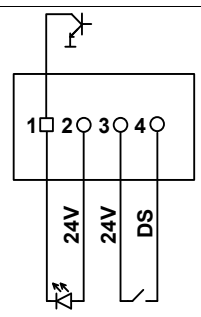
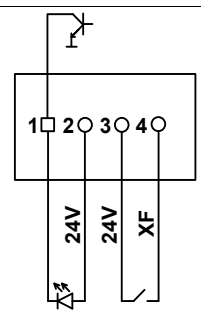
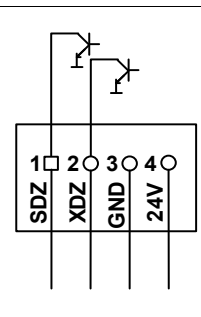
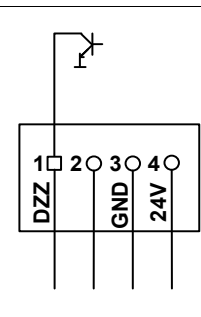
Information for similar type

Model	Display color	PCB COLOR
BL2000-HAH-E9.1 A/B	Red/orange	green

Terminal definition and function description

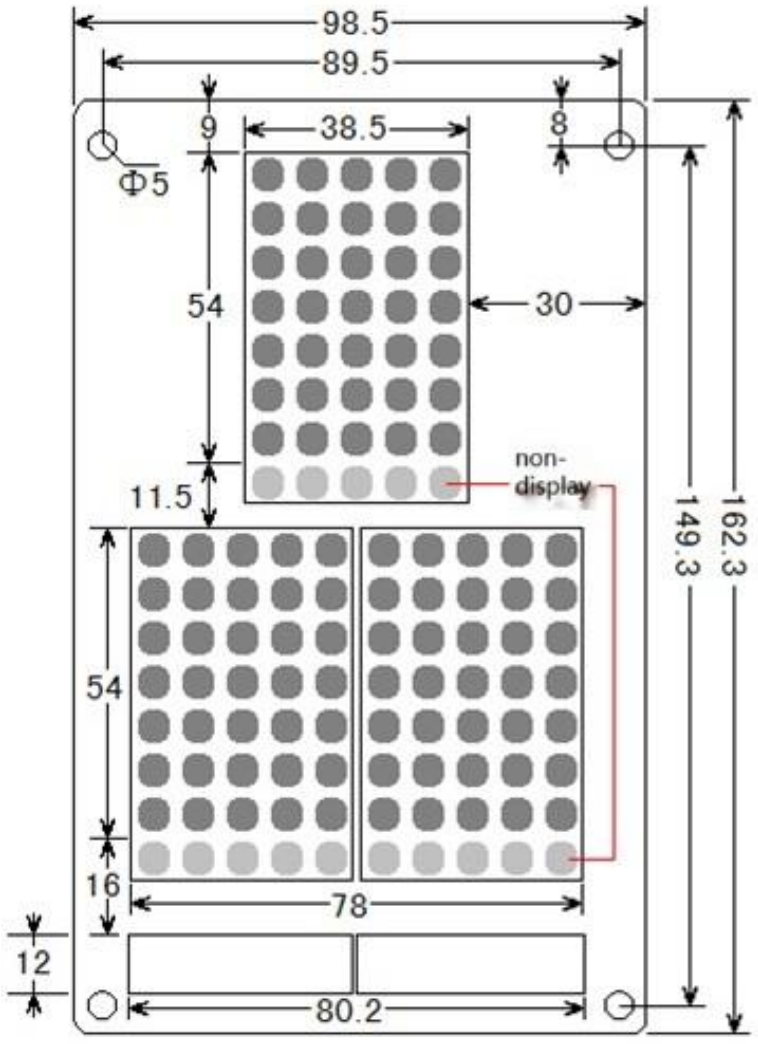
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	3.96-4 180°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4 180°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4 180°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
BY0	2.54-4 180°	Serial parking input	Standby answer	24V	24V	Serial parking input(DS)
BY1	2.54-4 180°	Serial fire service	Standby answer	24V	24V	Serial fire service(XF)
DZD	2.54-4 180°	Arrival lamp output	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	GND	24V
DZZ	2.54-4 180°	Arrival bell output	Arrival bell output(DZZ)	Not used	GND	24V
S1	2.54-2 180°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2 180°	Address jumper setting	Refer to Appendix A.1 for details.			
AN		Address setting key	Refer to Appendix A.1 for details.			
LED pilot lamp display		Default setting :Left for User	These LEDs can be variously configured. Refer to Appendix B.1 for details.			
JC、EN	2.54-2 180°	Function setting jumper	Short JC and EN at the same time，after power on，enter the function setting mode. Refer to appendixB.1 for details.			

Terminal connection diagram

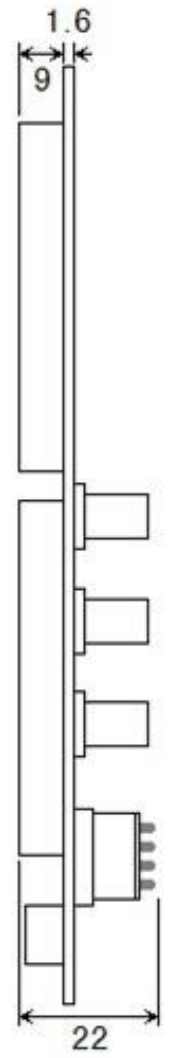
SH	XH	BY0	BY1	DZD	DZZ
					

Note: The square bond pad of foot pins on terminal’s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

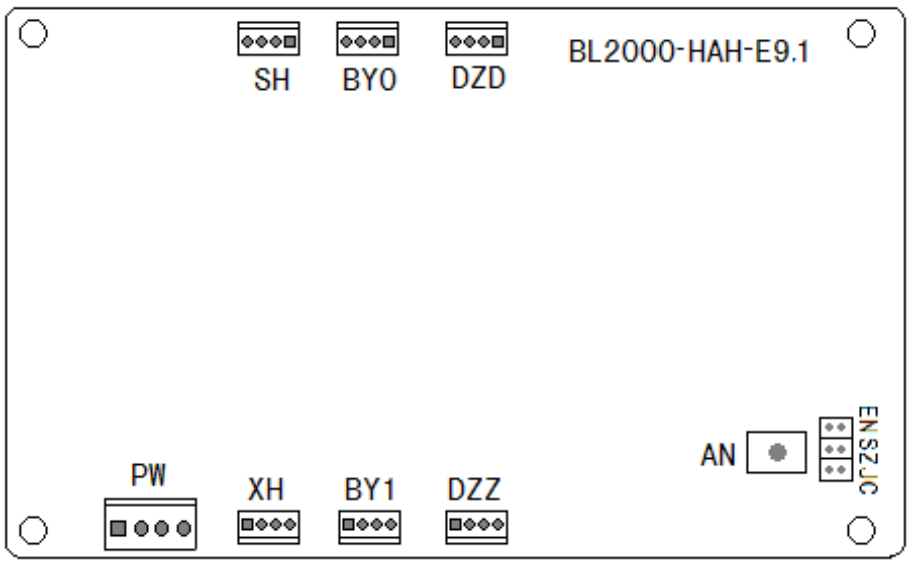
BL2000-HAH-E9.1 Dimensional Drawing



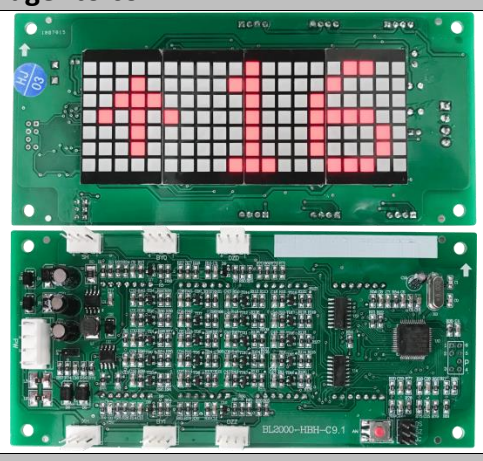
Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

Model	BL2000-HBH-C9.1	Order information on：red ：conventional supply cycle orange：contact the sales manager to confirm
Type of dot matrix	Square dot matrix	
Display direction	Horizontal	
DIMENSIONS OF PCB	70mm*151mm*21mm	
Dimensions of Installation Baseboard	No installation baseboard	
LED Pilot Lamp	None	

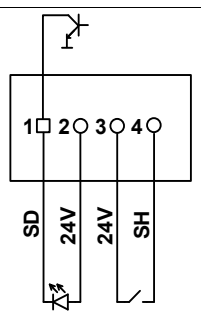
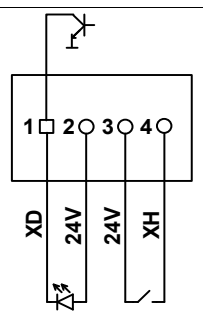
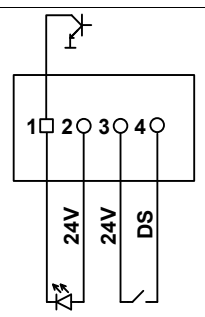
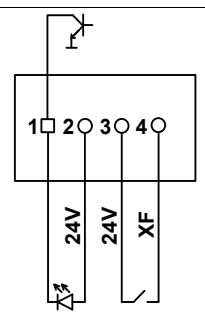
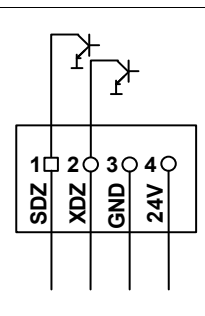
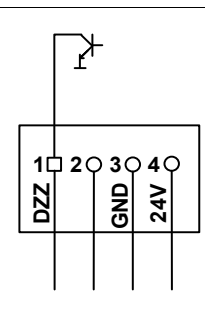
Information for similar type

Model	Display color	PCB COLOR
BL2000-HBH-C9.1 A/B	Red/orange	green
FJ-HPI-V9.1 A/B	Red/orange	green

Terminal definition and function description

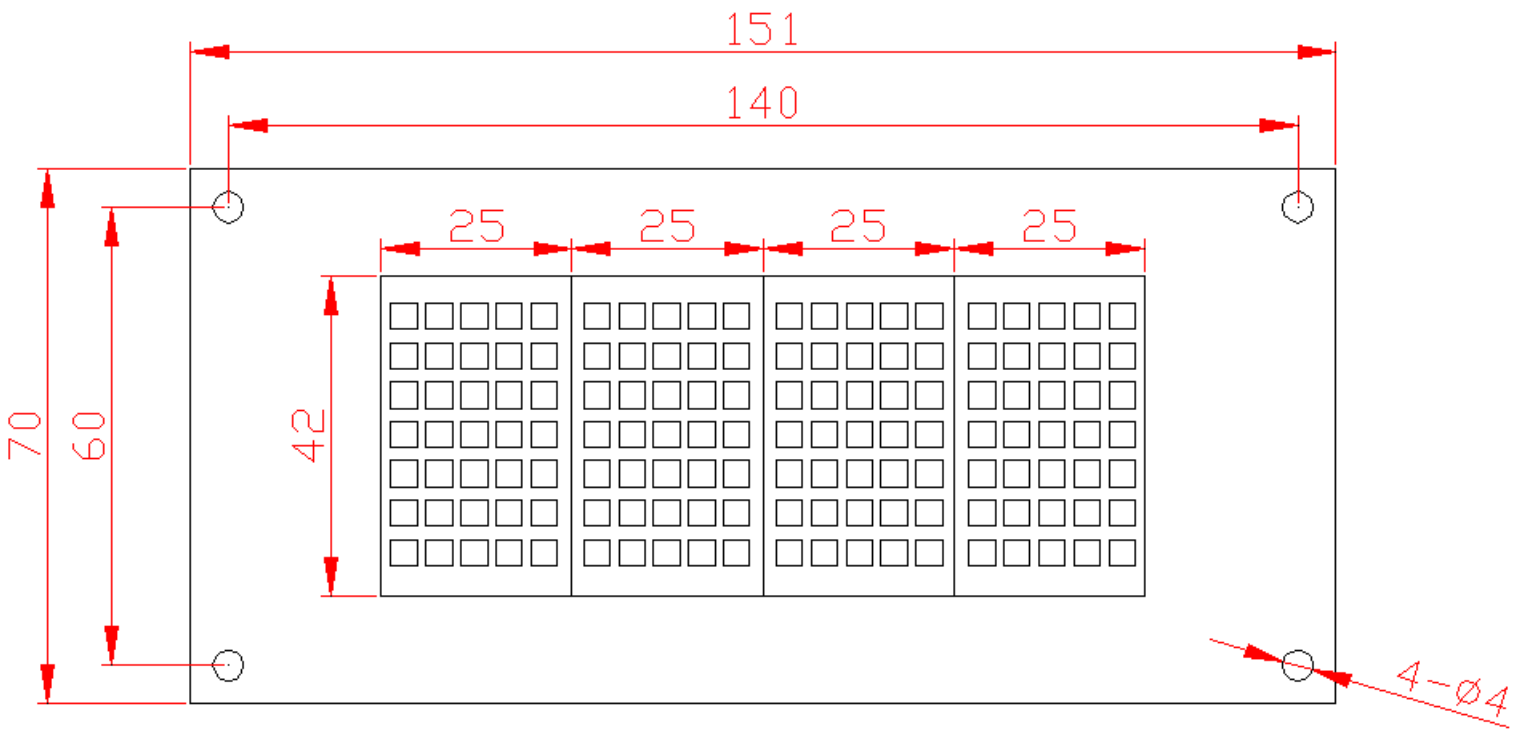
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	3.96-4 180°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4 180°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4 180°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
BY0	2.54-4 180°	Serial parking input	Standby answer	24V	24V	Serial parking input(DS)
BY1	2.54-4 180°	Serial fire service	Standby answer	24V	24V	Serial fire service(XF)
DZD	2.54-4 180°	Arrival lamp output	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	GND	24V
DZZ	2.54-4 180°	Arrival bell output	Arrival bell output(DZZ)	Not used	GND	24V
S1	2.54-2 180°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2 180°	Address jumper setting	Refer to Appendix A.1 for details.			
AN		Address setting key	Refer to Appendix A.1 for details.			
JC、EN	2.54-2 180°	Function setting jumper	Short JC and EN at the same time，after power on，enter the function setting mode. Refer to appendixB.1 for details.			

Terminal connection diagram

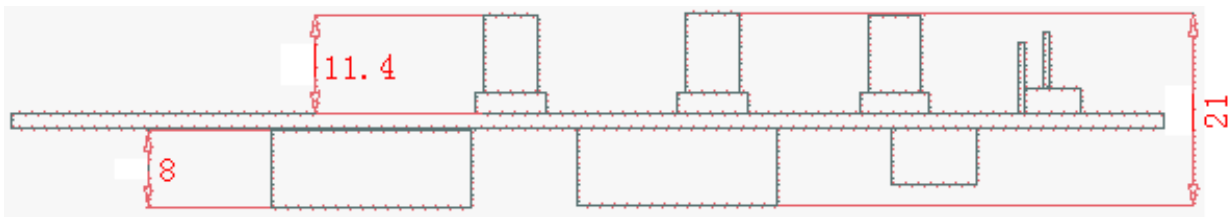
SH	XH	BY0	BY1	DZD	DZZ
					

Note: The square bond pad of foot pins on terminal’s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

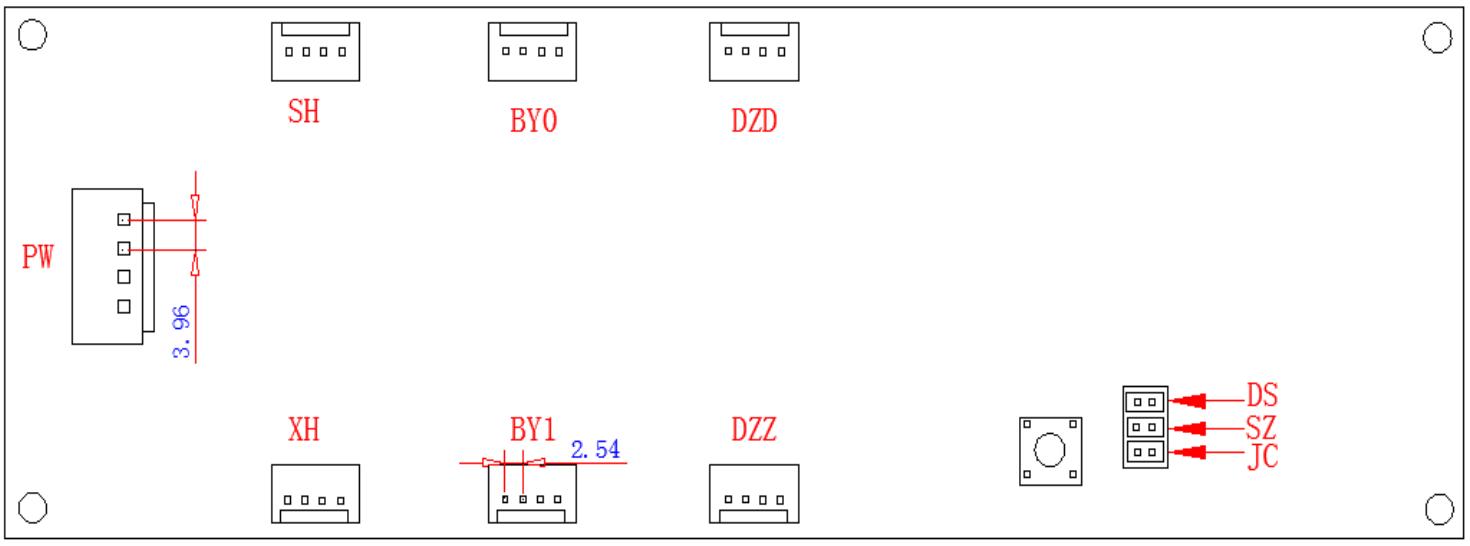
BL2000-HBH-C9.1Dimensional Drawing



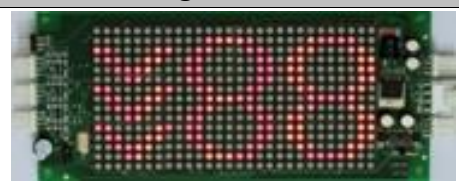
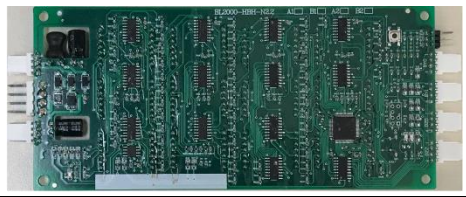
Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

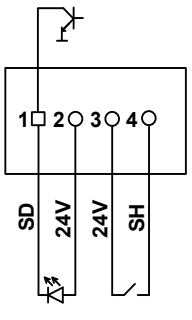
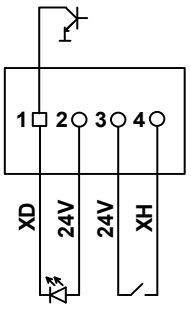
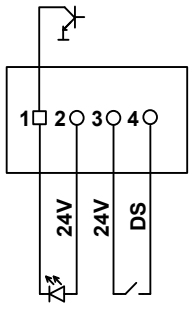
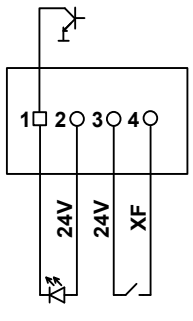
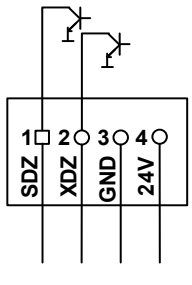
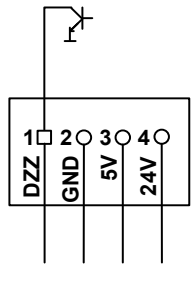
Model	BL2000-HBH-N2.2	Order information on： contact the sales manager to confirm
Type of dot matrix	Round dot matrix	
Display direction	Horizontal	
DIMENSIONS OF PCB	81mm*178mm*12mm	
Dimensions of Installation Baseboard	No installation baseboard	
LED Pilot Lamp	None	

Information for similar type		
Model	Display color	PCB COLOR
BL2000-HBH-N2.2 A1/B1/A2/B2	Red round dot matrix/Orange round dot matrix/red square dot matrix/orange square dot matrix	green

Terminal definition and function description

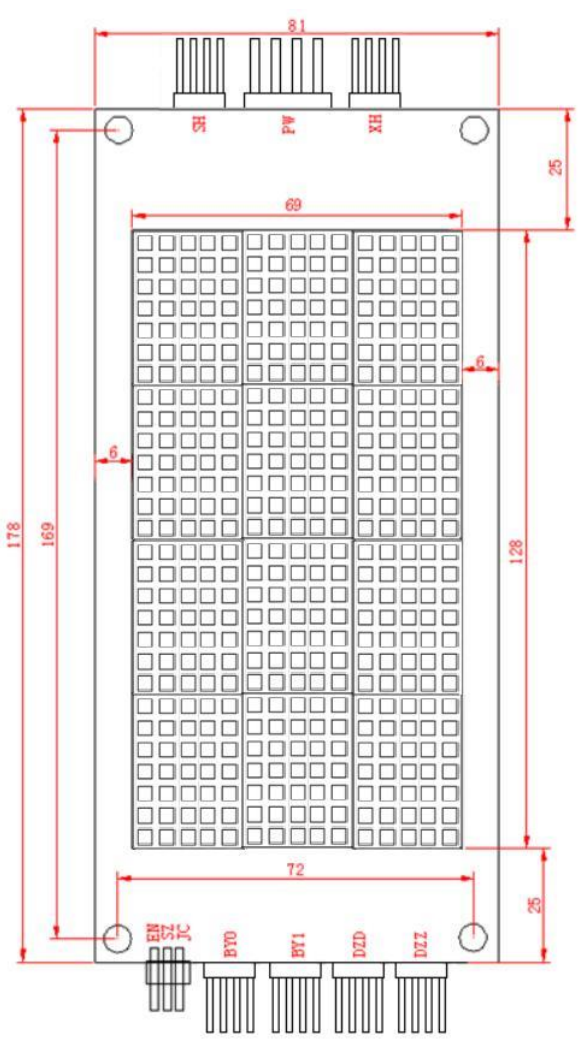
Terminal	Terminal specifications	function	Pin definition			
			1	2	3	4
PW	3.96-4 90°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4 90°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4 90°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
BY0	2.54-4 90°	Serial parking input	Standby answer	24V	24V	Serial parking input(DS)
BY1	2.54-4 90°	Serial fire service	Standby answer	24V	24V	Serial fire service(XF)
DZD	2.54-4 90°	Arrival lamp output	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	GND	24V
DZZ	2.54-4 90°	Arrival bell output	Arrival bell output(DZZ)	GND	5V	24V
S1	2.54-2 90°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2 90°	Address jumper setting	Refer to Appendix A.1 for details.			
AN		Address setting key	Refer to Appendix A.1 for details.			
JC、EN	2.54-2 90°	Function setting jumper	Short JC and EN at the same time，after power on，enter the function setting mode. Refer to appendixB.1 for details.			

Terminal connection diagram

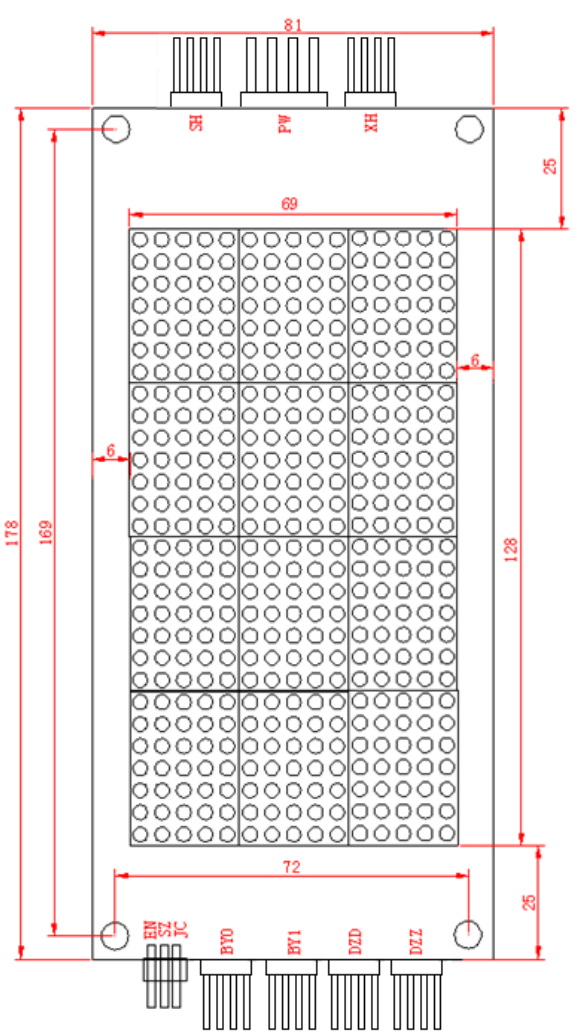
SH	XH	BY0	BY1	DZD	DZZ
					

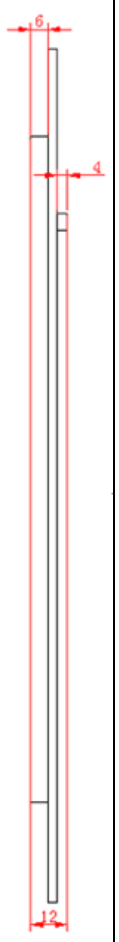
Note: The square bond pad of foot pins on terminal’s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

BL2000-HBH-N2.2 Dimensional Drawing

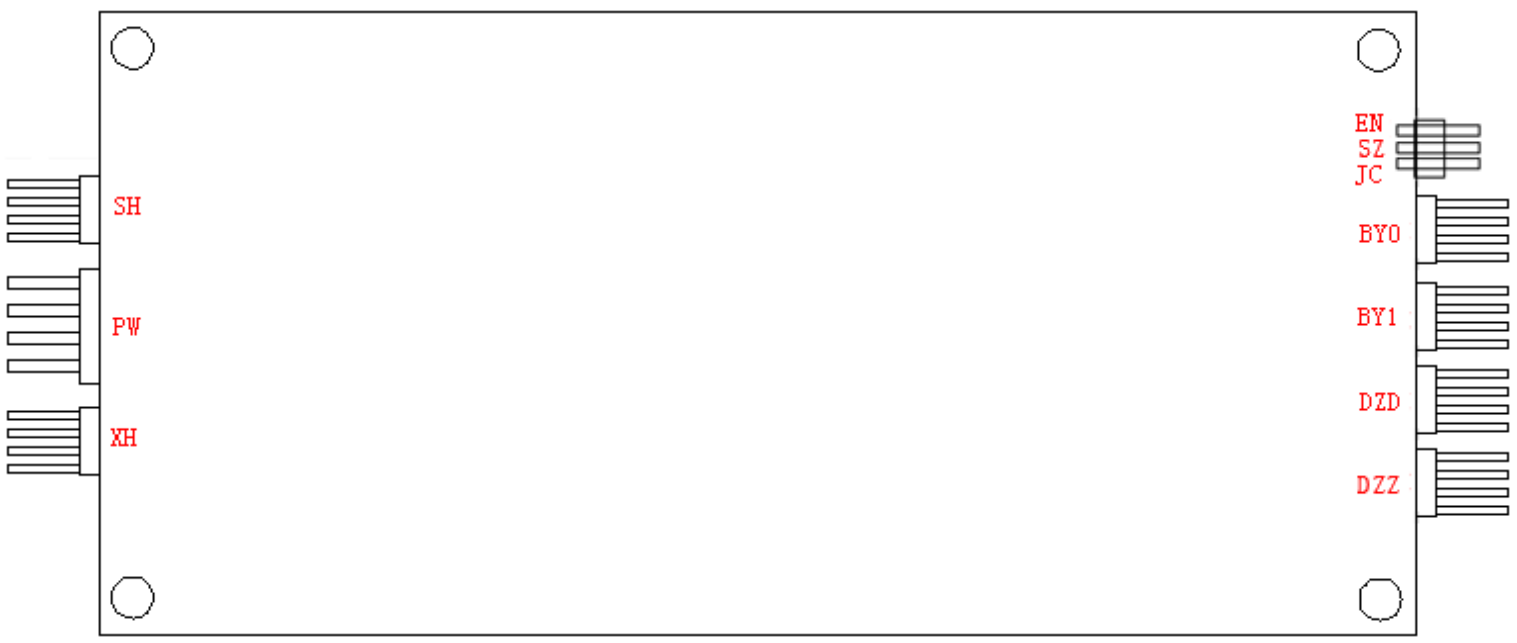


Dimensional Drawing of the front

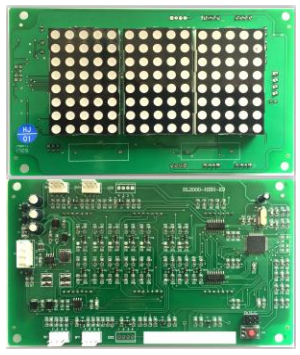




Dimensional Drawing of side



Dimensional Drawing of the back

Model	BL2000-HBH-E9.1	Order information on： A:conventional supply cycle.B:contact the sales manager to confirm
Type of dot matrix	Round dot matrix	
Display direction	Horizontal	
DIMENSIONS OF PCB	98.5mm*162.3mm*22mm	
Dimensions of Installation Baseboard	No installation baseboard	
LED Pilot Lamp	左、右	

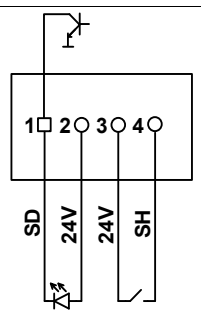
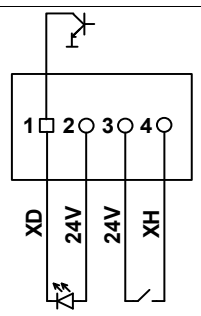
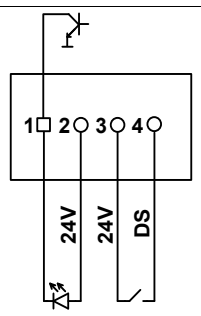
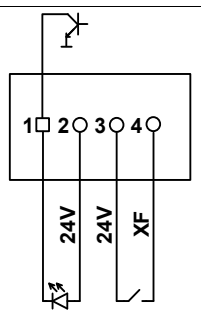
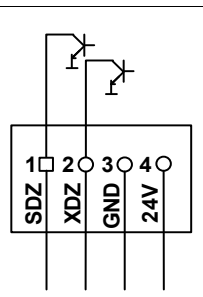
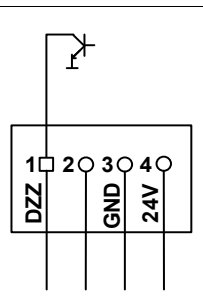
Information for similar type

Model	Display color	PCB COLOR
BL2000-HBH-E9.1 A/B	Red/orange	green

Terminal definition and function description

Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	3.96-4 180°	Power &communication	24V	GND	CANH	CANL
SH	2.54-4 180°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-4 180°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
BY0	2.54-4 180°	Serial parking input	Standby answer	24V	24V	Serial parking input(DS)
BY1	2.54-4 180°	Serial fire service	Standby answer	24V	24V	Serial fire service(XF)
DZD	2.54-4 180°	Arrival lamp output	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	GND	24V
DZZ	2.54-4 180°	Arrival bell output	Arrival bell output(DZZ)	Not used	GND	24V
S1	2.54-2 180°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2 180°	Address jumper setting	Refer to Appendix A.1 for details.			
AN		Address setting key	Refer to Appendix A.1 for details.			
LED pilot lamp display		Default setting :Left for User	These LEDs can be variously configured. Refer to Appendix B.1 for details.			
JC、EN	2.54-2 180°	Function setting jumper	Short JC and EN at the same time，after power on，enter the function setting mode. Refer to appendixB.1 for details.			

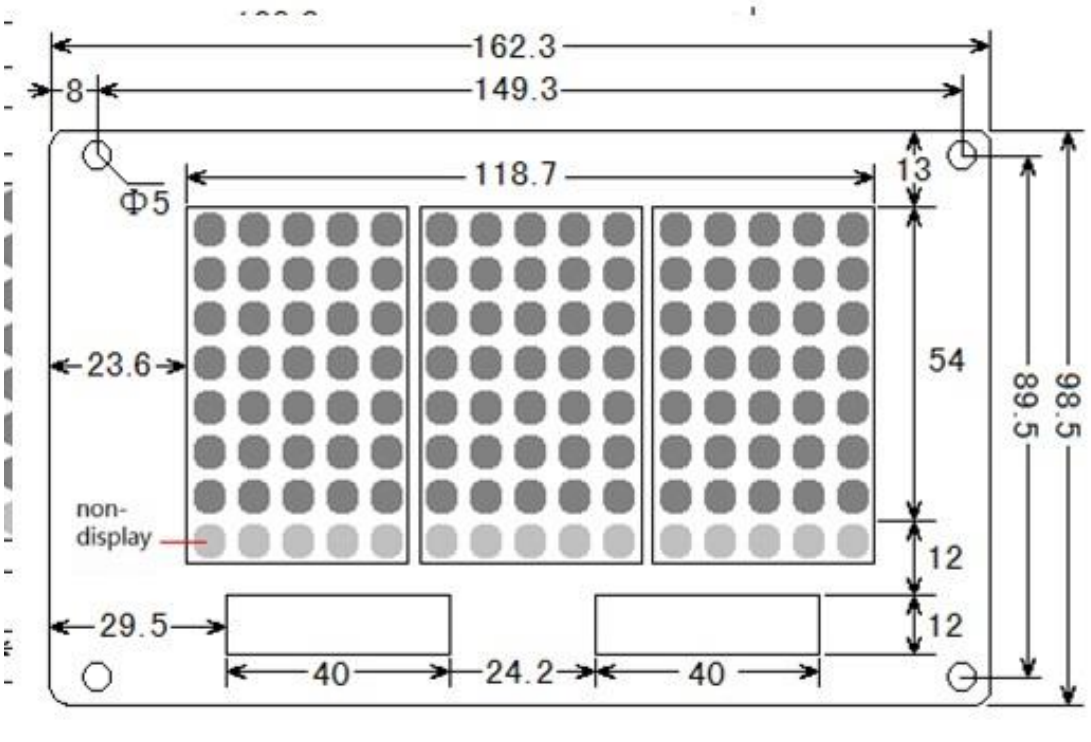
Terminal connection diagram

SH	XH	BY0	BY1	DZD	DZZ
					

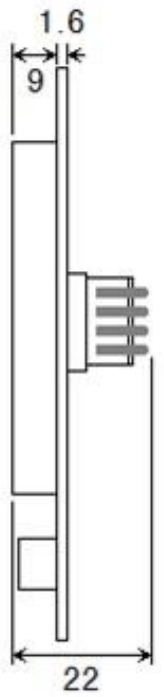
Note: The square bond pad of foot pins on terminal’s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

BL2000-HBH-E9.1 Dimensional Drawing

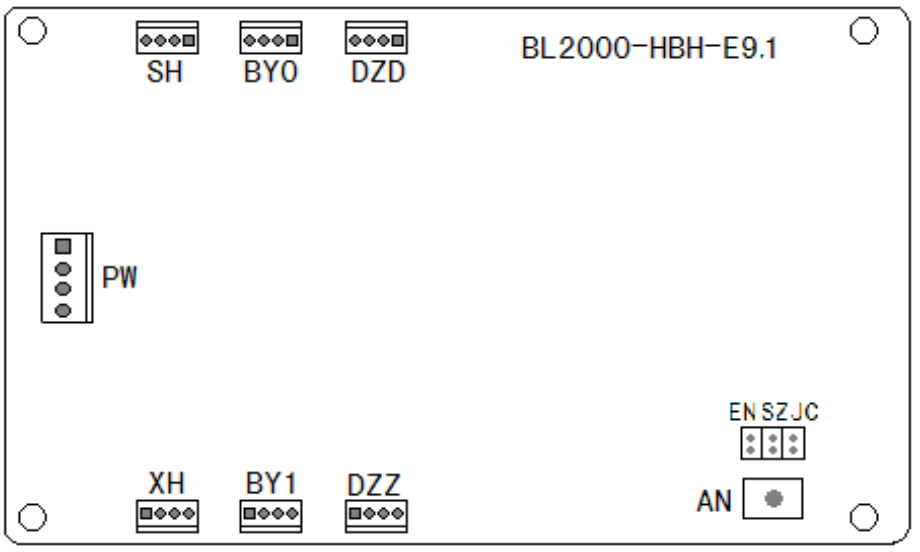
unit：mm



Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

LCD panel

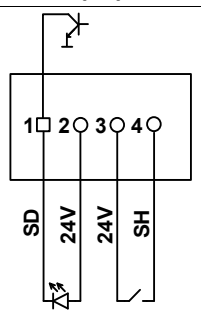
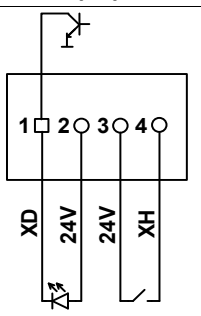
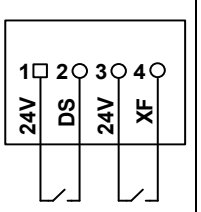
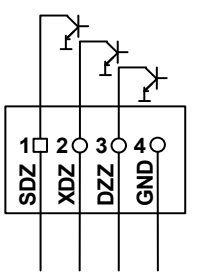
Model	BL2000-MBQ-V4.3	Order Information: Conventional supply cycle
LCD type	8 inch TFT ture color	
Display direction	Horizontal/Vertical	
DIMENSIONS OF PCB	155mm*216mm*24mm	
Dimensions of Installation Baseboard	none	

Information for similar type		
Model	Display color	PCB COLOR
BL2000-MBQ-V4.3S	Ture color	Green

Terminal definition and function description

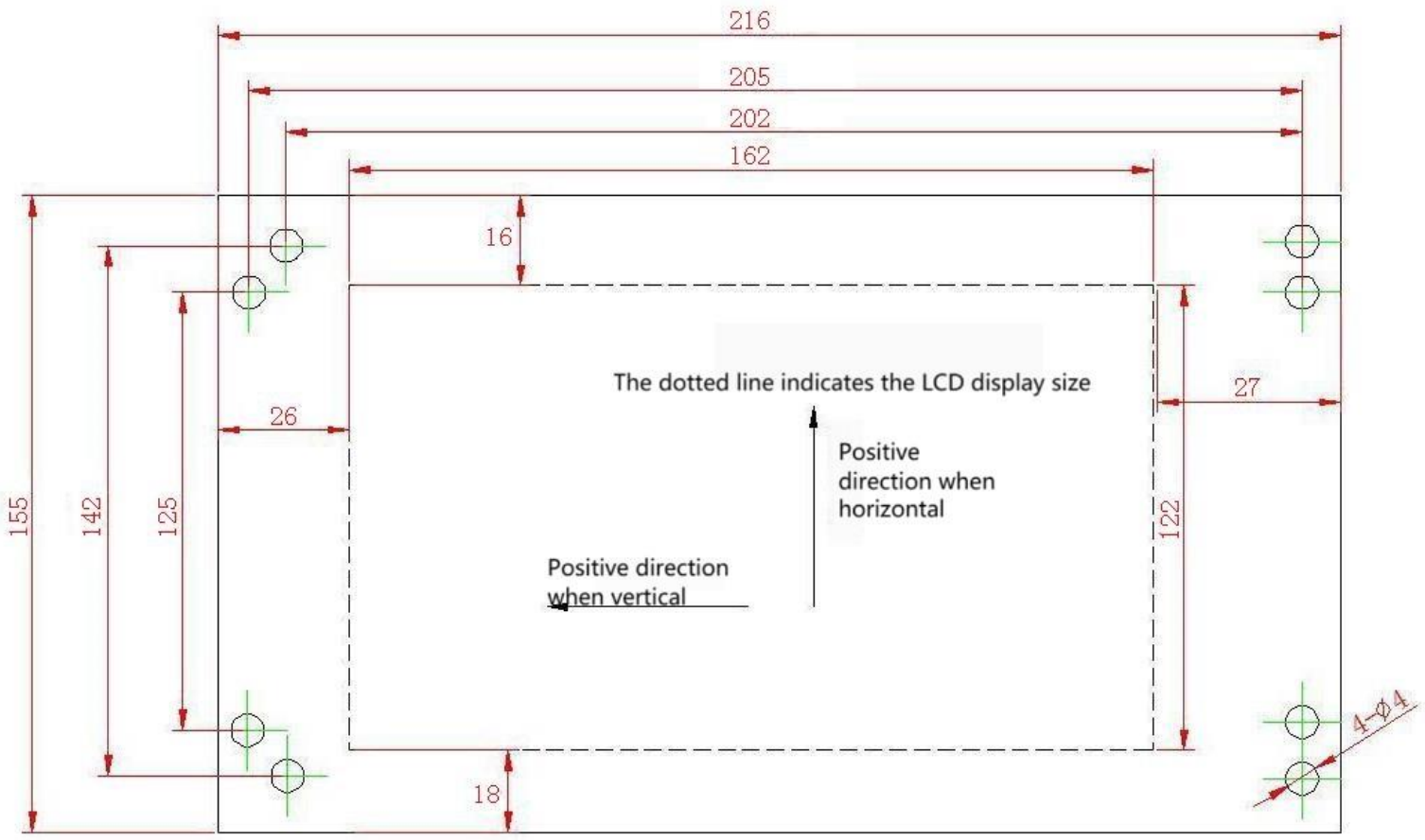
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW(J1)	3.96-4 180°	Power &communication	24V	GND	CANH	CANL
SH(J5)	2.54-4 180°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH(J6)	2.54-4 180°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
DS-XF (J7)	2.54-4 180°	Serial parking and fire input	24V	Serial parking input(DS)	24V	Serial fire service(XF)
DZD-DZZ (J8)	2.54-4 180°	Arrival signals output	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	Arrival bell output(DZZ)	GND
S1	2.54-2 180°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ(S2)	2.54-2 180°	Address jumper setting	Short the SZ jumper alone, power on again to enter the address setting interface, and use the up and down call buttons to set the address. After set, disconnect the SZ jumper, the layer number flashes, and the screen restarts to save successfully. At the same time, short the SZ and JC jumpers and power on again to enter the setting menu. For detailed information, Refer to Appendix.			
JC(S3)	2.54-2 180°	Detection jumper	Short JC , power on again to enter the detection mode. In the detection mode, the screen will enter the automatic demonstration mode. The highest floor in the demonstration mode can be determined by the floor station address.			
S4、S7	2.54-2 180°	Computer replacement file jumper	When using a computer to change files, S4 and S7 need to be shorted.			
S5、S6	2.54-2 180°	Reserved function	Do not short.			
USB(J2)	USBA	Connect a USB drive or computer to change files	Insert the USB flash drive into this port, and the file will be automatically replaced after powering on again; Short S4 and S7 and power on again, and you can connect the computer through this port to replace the file; For more information, see the product manual.			
AN	Button	Address setting key	Long press to enter the layer station address setting interface, and then short press the address + 1.			
J4	2.54-2 90°	Voice station audio interface	Connect a speaker to announce the station by voice (only BL2000-MBQ-V4.3S has this function).			

Terminal connection diagram

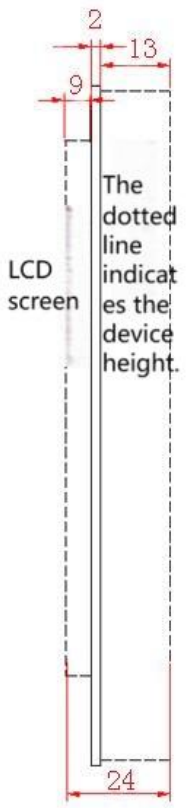
SH (J5)	XH (J6)	DS-XF (J7)	DZD-DZZ (J8)
			

Note: The square bond pad of foot pins on terminal’ s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

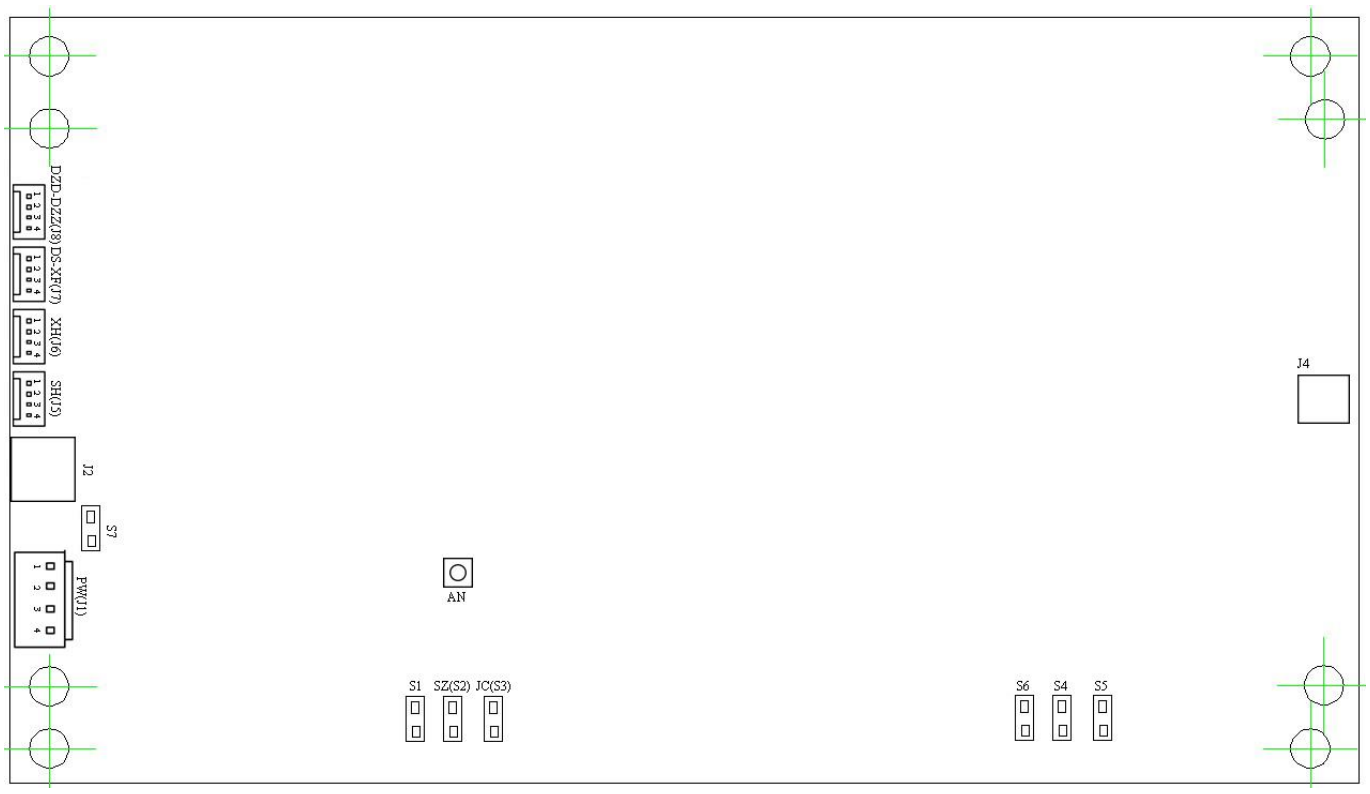
BL2000-MBQ-V4.3 Dimensional Drawing



Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

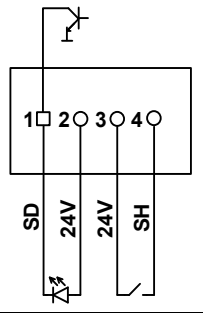
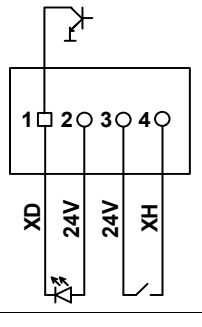
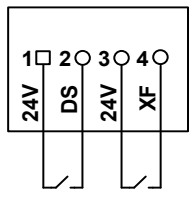
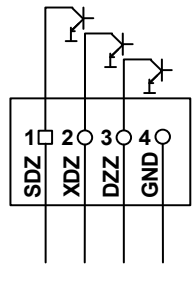
Model	BL2000-HEH-L4	Order information on: conventional supply cycle
LCD type	4.3inch TFT ture color	
Display direction	Horizontal/Vertical	
DIMENSIONS OF PCB	70mm*161mm*9.6mm	
Dimensions of Installation Baseboard	None	

Information for similar type		
Model	Display color	PCB COLOR
BL2000-HEH-L4 L	Vertical terminal (with increased thickness, pay attention to reserving wiring space)	Green

Terminal definition and function description

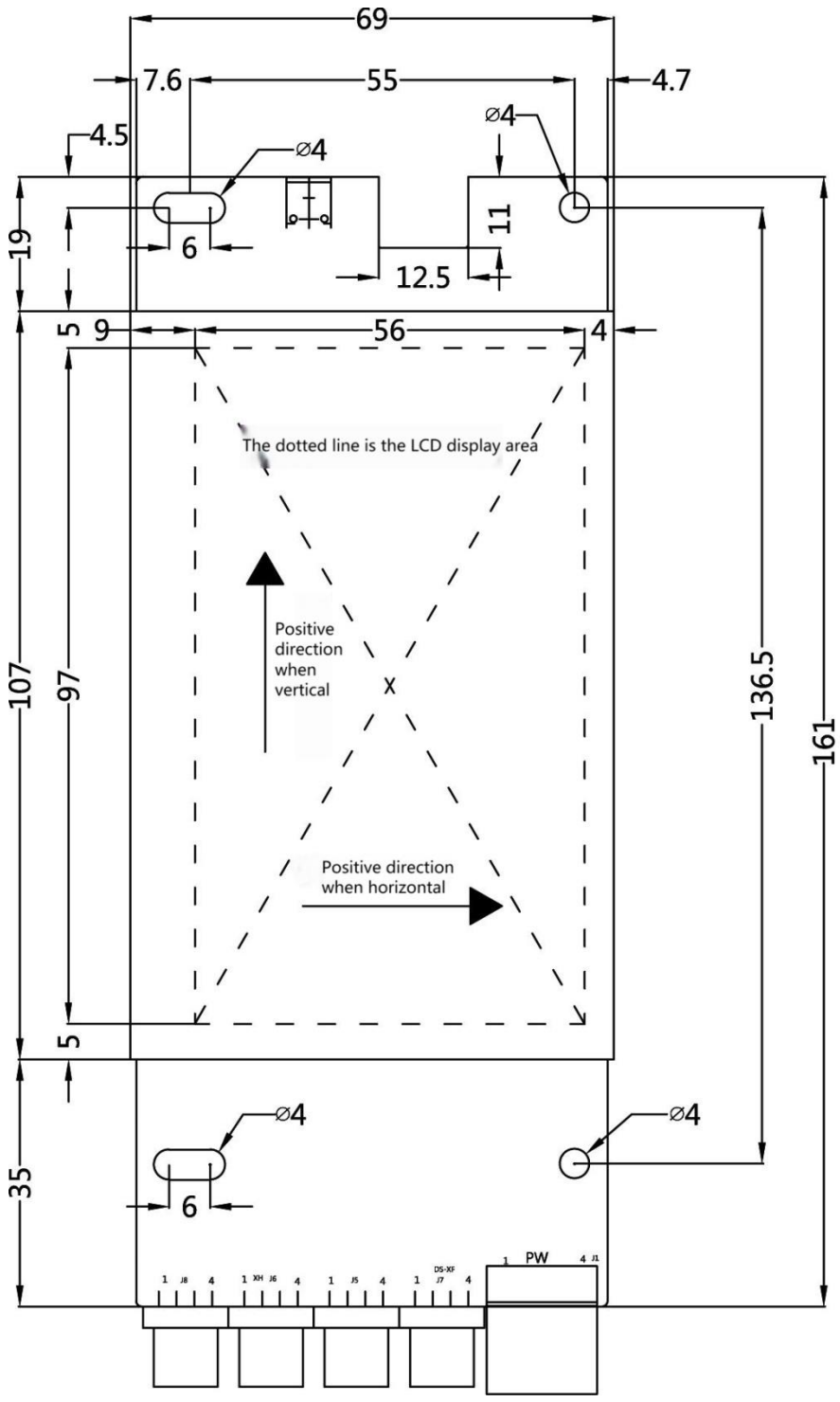
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW(J1)	3.96-4 90° (Straight L4 L)	Power &communication	24V	GND	CANH	CANL
SH(J5)	2.54-4 90° (Straight L4 L)	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH(J6)	2.54-4 90° (Straight L4 L)	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
DS-XF (J7)	2.54-4 90° (Straight L4 L)	Serial parking input	24V	Serial parking input(DS)	24V	Serial fire service(XF)
DZD-DZZ (J8) (Optional)	2.54-4 90° (Straight L4 L)	Arrival signal output	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	Arrival bell output(DZZ)	GND
S1	2.54-2 90°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
S2	2.54-2 90°	None	Reserved.			
USB(S3)	2.54-2 90°	USB mode jumper	Short the USB jumper,power on again ,rnter the USB disk connection,at this time ,connect the computer rhrough the Mini-USB interface to change files.			
SZ(S4)	2.54-2 90°	Address jumper setting	Short the SZ jumper alone, power on again to enter the address setting interface, and use the up and down call buttons to set the address. After set, disconnect the SZ jumper, the layer number flashes, and the screen restarts to save successfully. At the same time, short the SZ and JC jumpers and power on again to enter the setting menu. For detailed information, Refer to Appendix.			
JC(S5)	2.54-2 90°	Detection jumper	Short JC , power on again to enter the detection mode. In the detection mode, the screen will enter the automatic demonstration mode. The highest floor in the demonstration mode can be determined by the floor station address.			
USB	Mini-USB	Connect to computer to change files	Use a Mini-USB data cable to connect to a computer, it will be recognized as a USB flash drive and can be used to replace files. For more information, see the product manual.			
AN	Button	Address setting key	Long press to enter the layer station address setting interface, and then short press the address + 1.			

Terminal connection diagram

SH (J5)	XH (J6)	DS-XF (J7)	DZD-DZZ (J8) (选配)
			

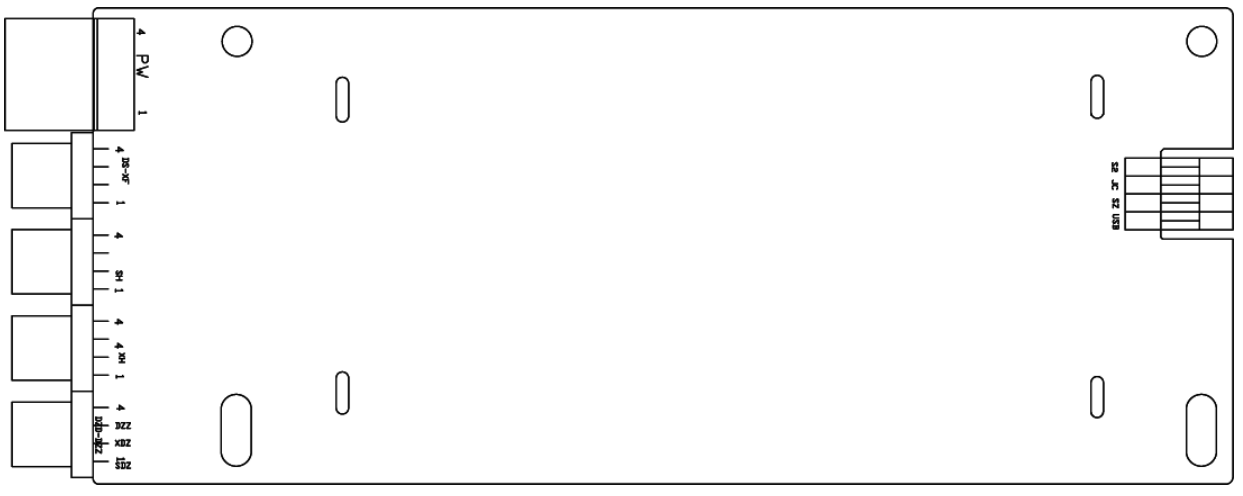
Note: The square bond pad of foot pins on terminal’ s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

BL2000-HEH-L4 Dimensional Drawing



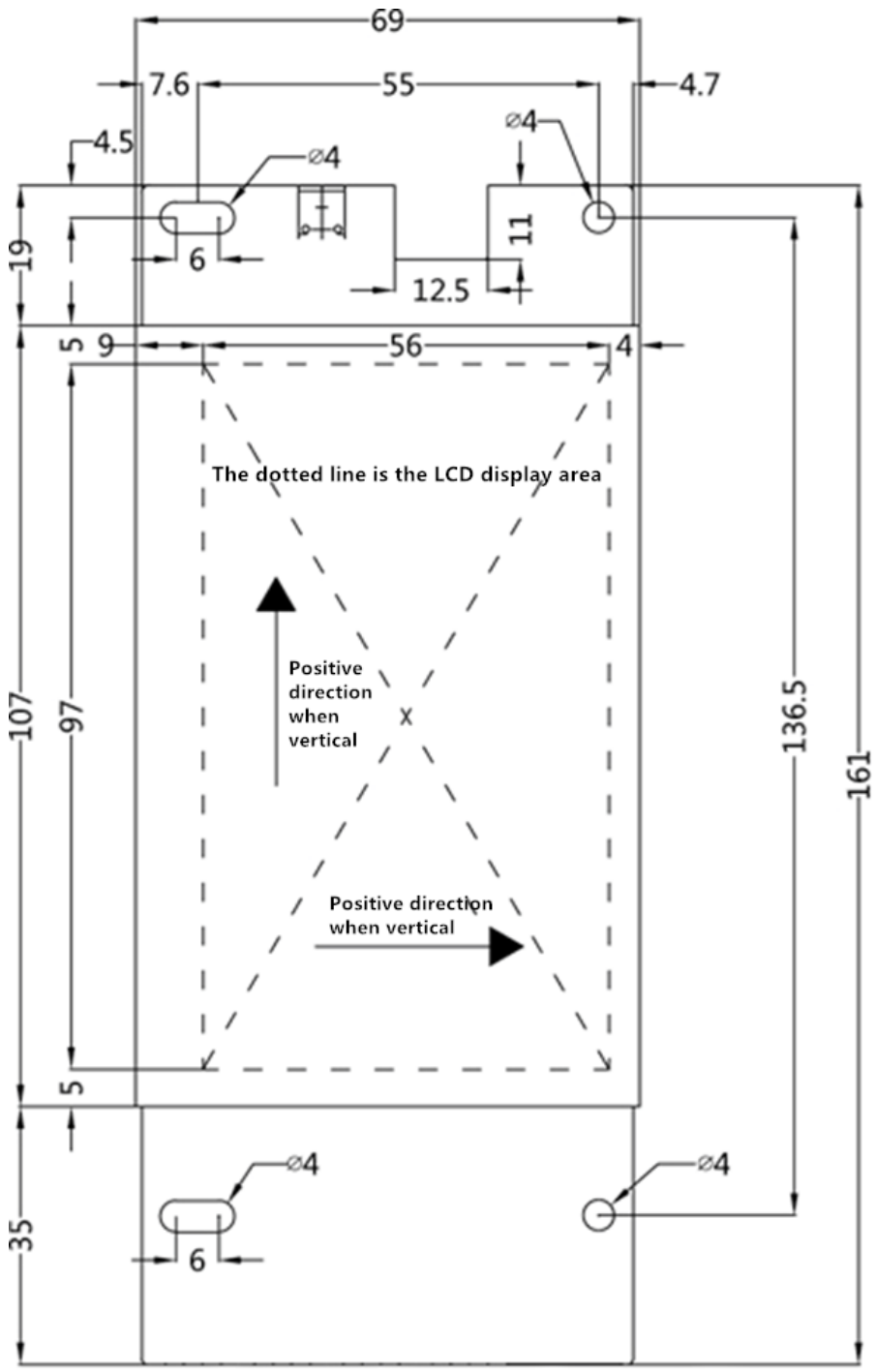
Dimensional Drawing of the front

Dimensional Drawing of side

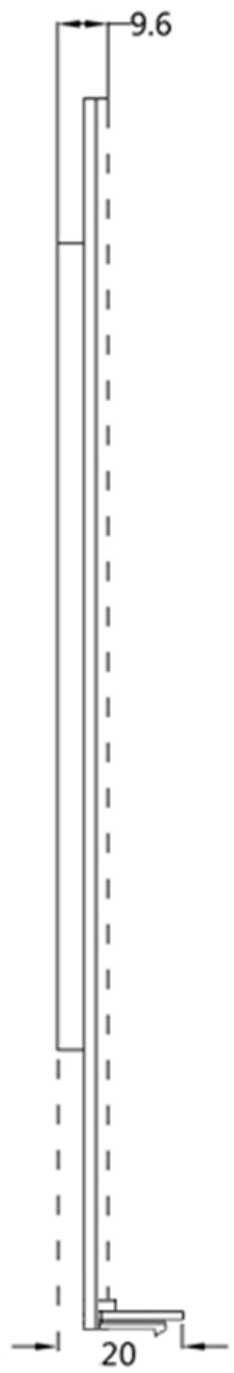


Dimensional Drawing of the back

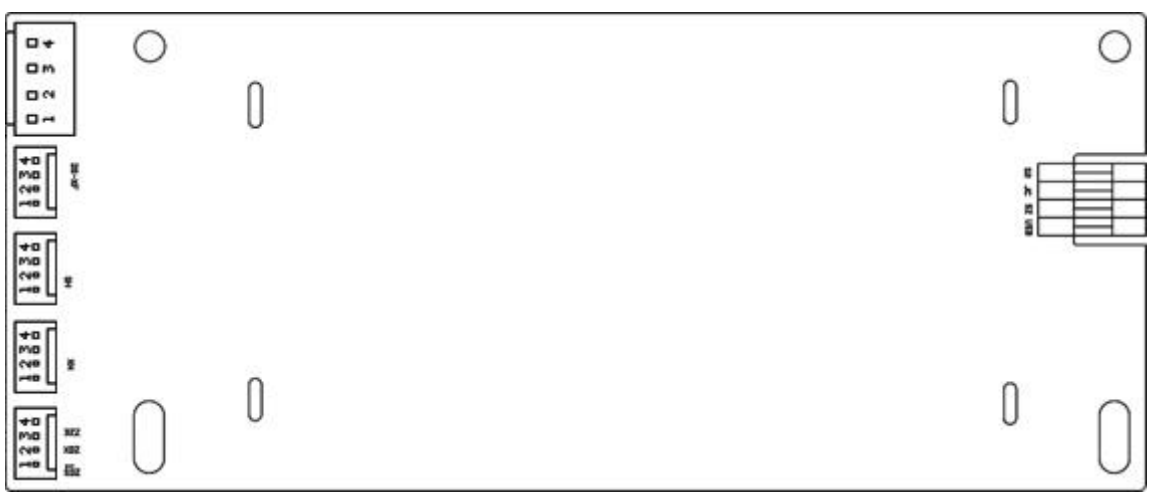
BL2000-HEH-L4 L Dimensional Drawing



Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

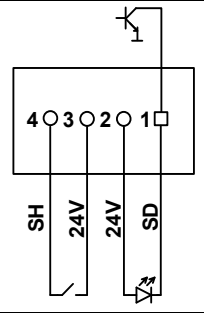
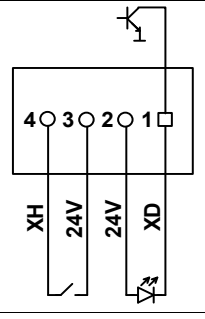
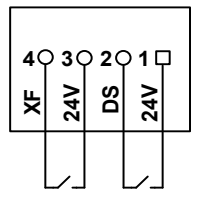
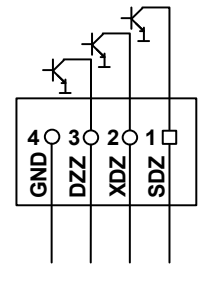
Model	BL2000-HEH-M2.3	Order information on： conventional supply cycle
LCD type	5.6inch TFT ture color	
Display direction	Horizontal/Vertical	
DIMENSIONS OF PCB	122mm*152mm*26.5mm	
Dimensions of Installation Baseboard	None	

Information for similar type		
Model	Display color	PCB COLOR
——	——	Green

Terminal definition and function description

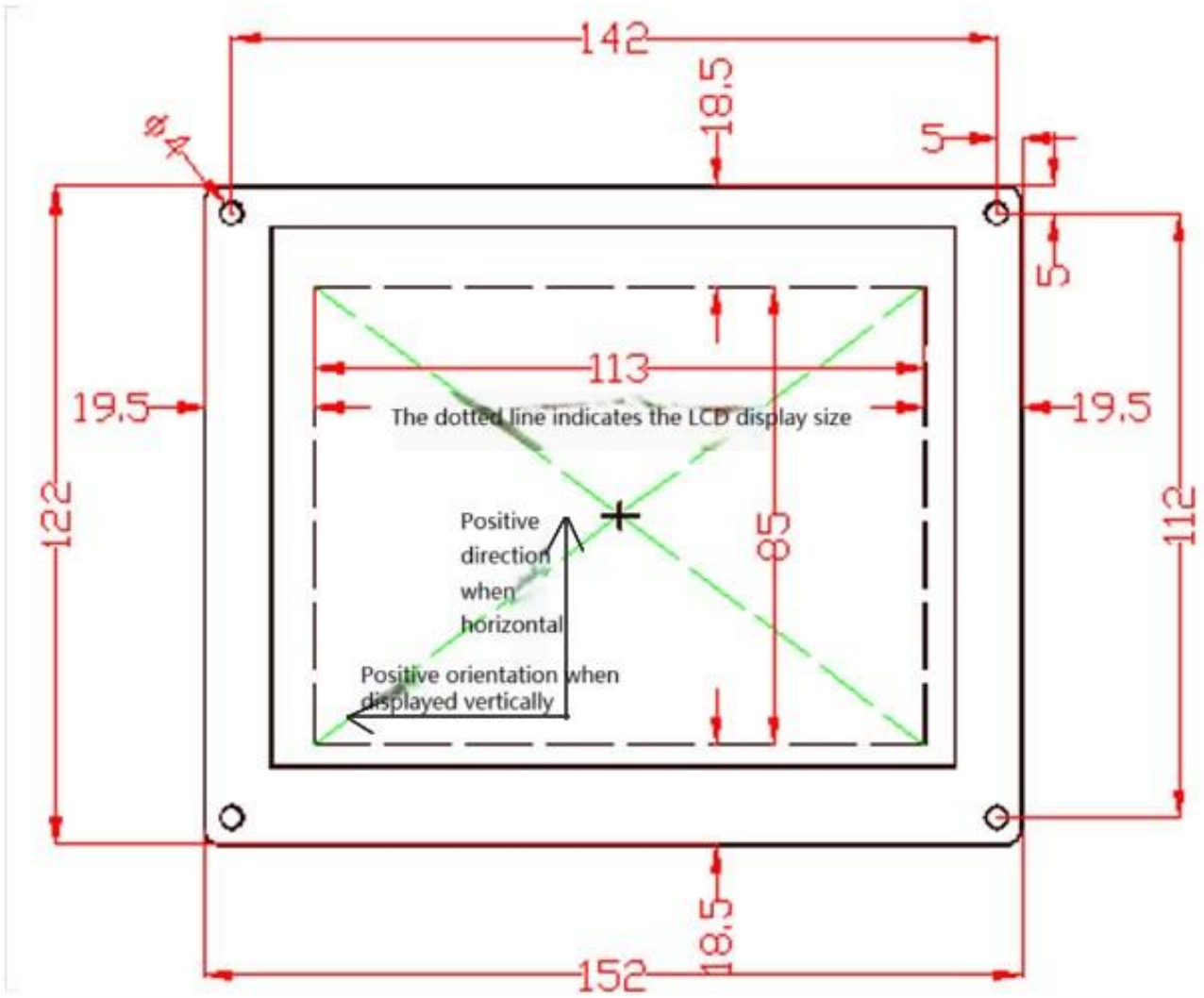
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW(J1)	3.96-4 180°	Power &communication	24V	GND	CANH	CANL
SH(J5)	2.54-4 180°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH(J6)	2.54-4 180°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
DS-XF (J7)	2.54-4 180°	Serial parking and fire input	24V	Serial parking input(DS)	24V	Serial fire service(XF)
DZD-DZZ (J8)	2.54-4 180°	Arrival signal output	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	Arrival bell output(DZZ)	GND
S1	2.54-2 180°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
S3、S7	2.54-2 180°	Computer replacement file jumper	When using a computer to change files, short S4 and S7.			
S2	2.54-2 180°	Reserved function	Do not short.			
SZ(S4)	2.54-2 180°	Address jumper setting	Short the SZ jumper alone, power on again to enter the address setting interface, and use the up and down call buttons to set the address. After set, disconnect the SZ jumper, the layer number flashes, and the screen restarts to save successfully. At the same time, short the SZ and JC jumpers and power on again to enter the setting menu. For detailed information, Refer to Appendix.			
JC(S5)	2.54-2 180°	Detection jumper	Short JC , power on again to enter the detection mode. In the detection mode, the screen will enter the automatic demonstration mode. The highest floor in the demonstration mode can be determined by the floor station address.			
USB	USBA	Connect a USB drive or computer to change files	Insert the USB flash drive into this port, and the file will be automatically replaced after powering on again; Short S4 and S7 and power on again, and you can connect the computer through this port to replace the file; For more information, see the product manual.			
AN	Button	Address setting key	Long press to enter the layer station address setting interface, and then short press the address + 1.			

Terminal connection diagram

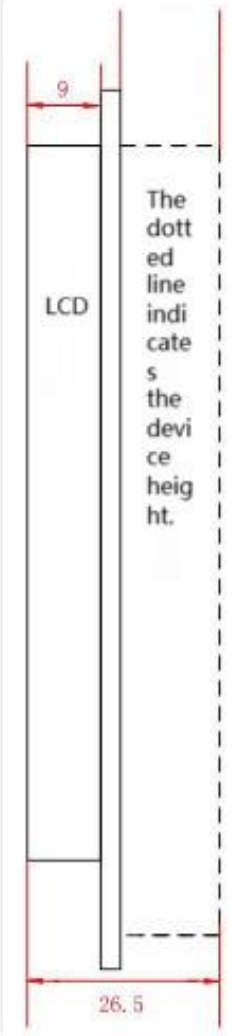
SH (J5)	XH (J6)	DS-XF (J7)	DZD-DZZ (J8)
			

Note: The square bond pad of foot pins on terminal’ s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

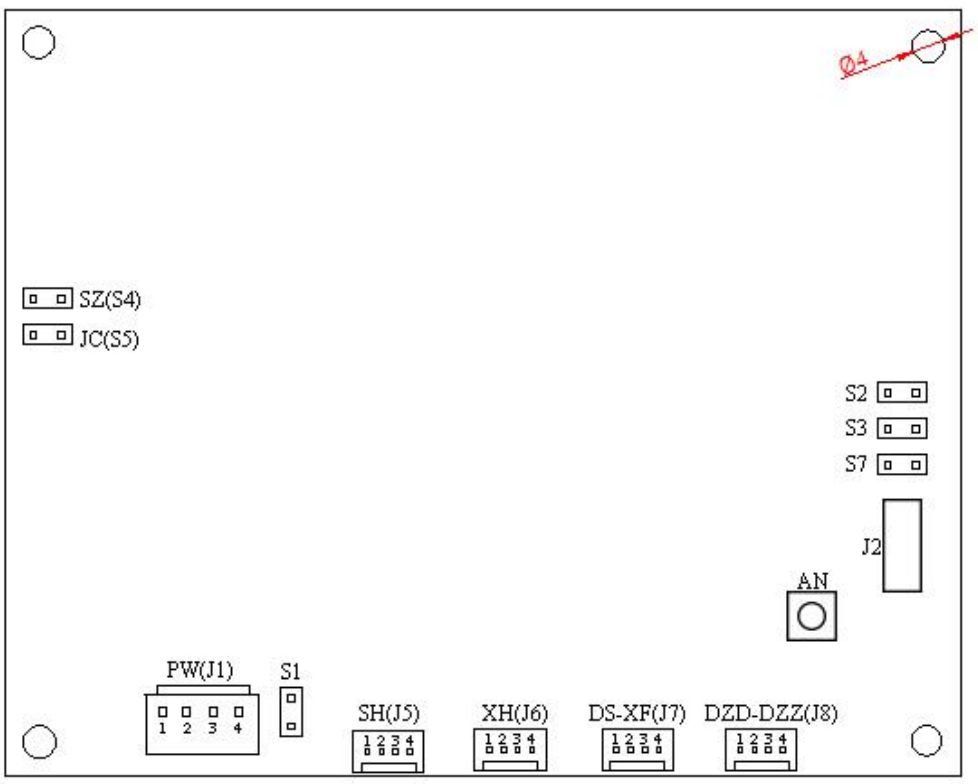
BL2000-HEH-M2.3 Dimensional Drawing



Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

Model	BL2000-HEH-M3	Order information on： contact the sales manager to confirm
LCD type	5.6inch TFT ture color	
Display direction	Horizontal/Vertical	
DIMENSIONS OF PCB	122mm*172mm*18mm	
Dimensions of Installation Baseboard	None	

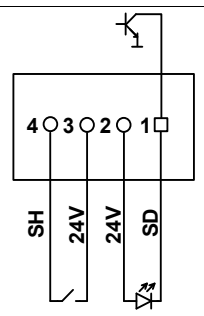
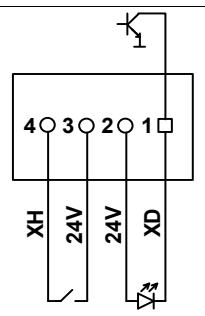
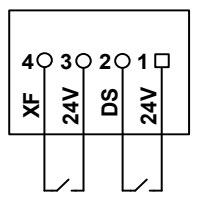
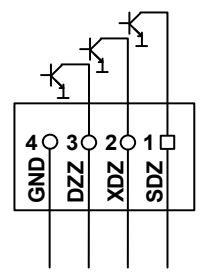
Information for similar type

Model	Display color	PCB COLOR
——	——	Green

Terminal definition and function description

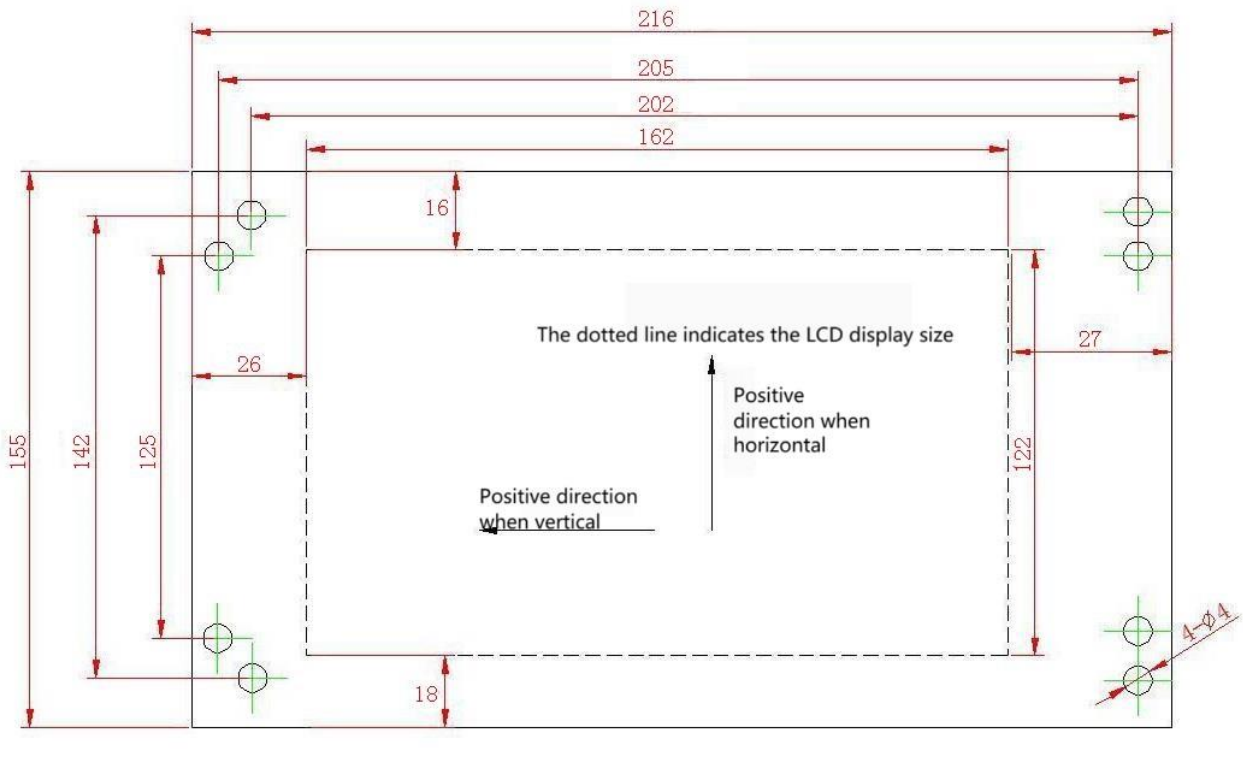
Terminal	Terminal specifications	function	Pin definition			
			1	2	3	4
PW(J1)	3.96-4180°	Power &communication	24V	GND	CANH	CANL
SH(J2)	2.54-4180°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH(J3)	2.54-4180°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
J4	2.54-4180°	Serial signal input	24V	Serial parking input(DS)	24V	Serial fire service(XF)
J5	2.54-4180°	Arrival signal output	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	Arrival bell output(DZZ)	GND
S1	2.54-2180°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2180°	Address jumper setting	Refer to Appendix A.1 for details.			
AN		Address setting key	Refer to Appendix A.1 for details.			
S7	2.54-2180°	Memory jumpers	SD card as memory.			
JC、SZ	2.54-2180°	Function setting jumper	Short JC and SZ at the same time, and enter the setting function after power-on. set the elevator status display, background image display and other functions. For details, see the corresponding product manual.			

Terminal connection diagram

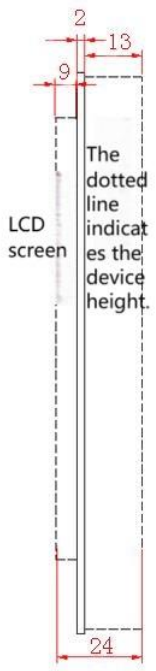
SH	XH	J4	J5
			

Note: The square bond pad of foot pins on terminal’ s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

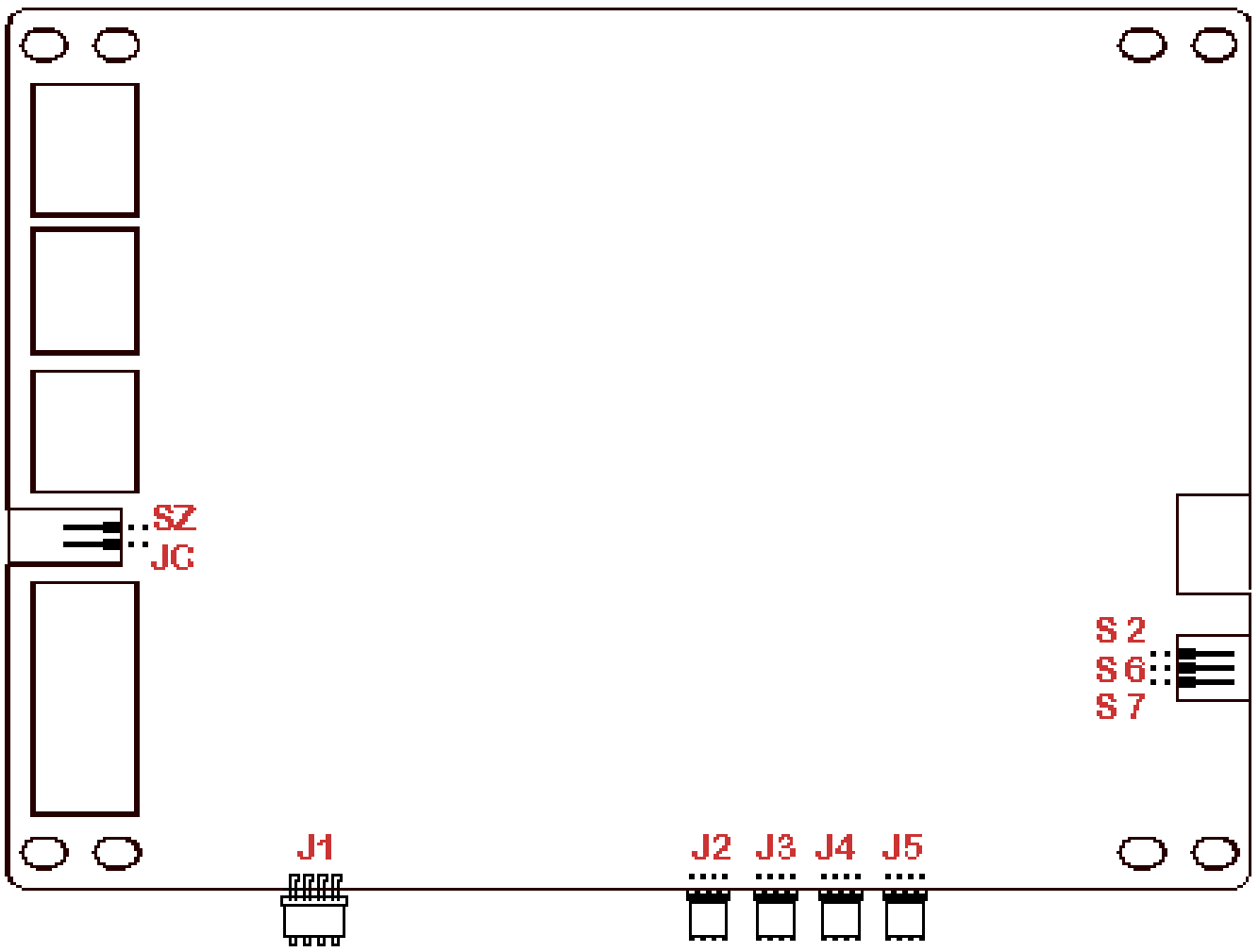
BL2000-HEH-M3 Dimensional Drawing



Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

Model	BL2000-HEH-N2.3	Order Information: Conventional supply cycle
LCD type	Segment LCD	
Display direction	Vertical	
DIMENSIONS OF PCB	140mm*76mm*13.5mm	
Dimensions of Installation Baseboard	143mm*79mm*13mm	

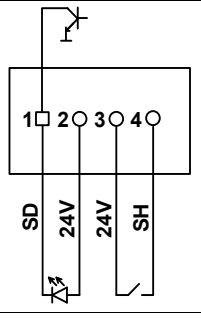
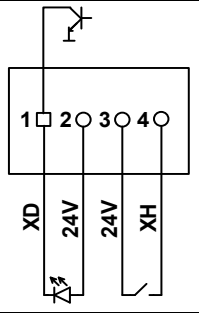
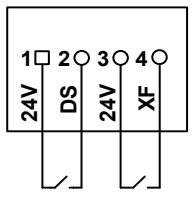
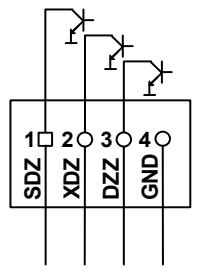
Information for similar type

Model	Display color	PCB COLOR
BL2000-HEH-N2.3 A/B/C	White character with Blue background /White character with Black background /Yellow character with Black background	Green

Terminal definition and function description

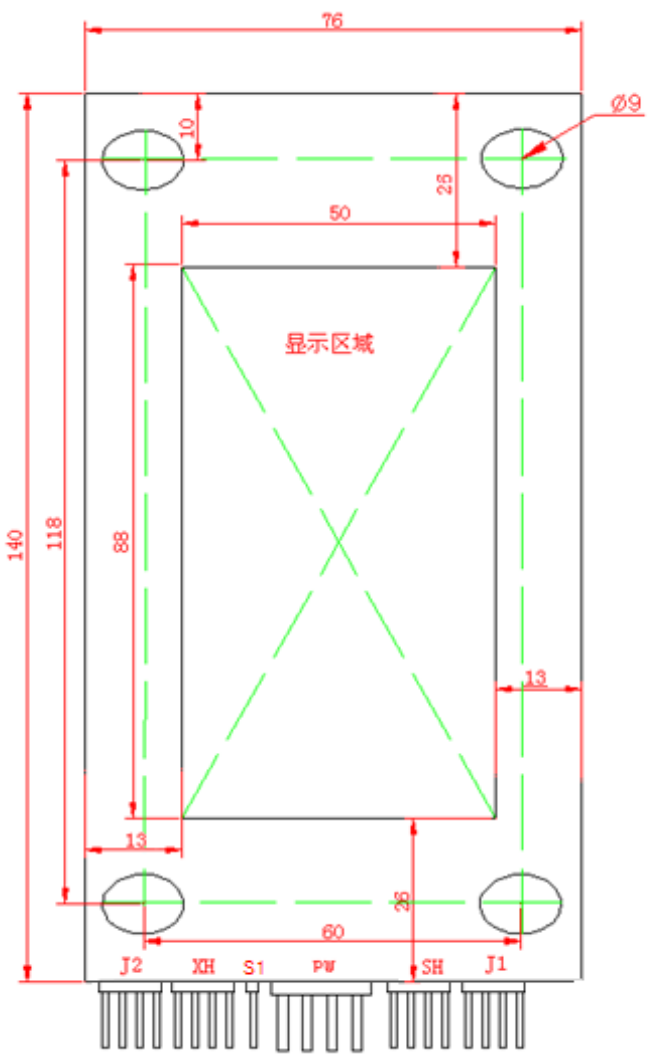
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	3.96-490°	Power &communication	24V	GND	CANH	CANL
SH	2.54-490°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-490°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
J1	2.54-490°	Serial input port	24V	Serial parking input(DS)	24V	Serial fire service(XF)
J2	2.54-490°	Arrival signal output	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	Arrival bell output(DZZ)	GND
S1	2.54-290°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
AN		Address setting key	Refer to Appendix A.1 ,A.2 for details.			
JC	2.54-290°	Checking &Function setting jumper	Short JC, after power on, enter the self-checking mode. Press the up call button and down call button at the same time, 2 or 3 seconds later, enter the function setting mode, various display information can be configured. Refer to Appendix B.2 for details.			

Terminal connection diagram

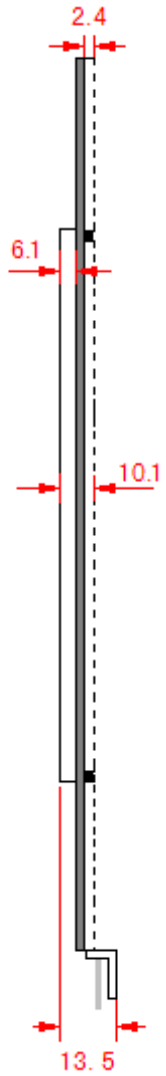
SH	XH	J1	J2
			

Note: The square bond pad of foot pins on terminal's back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

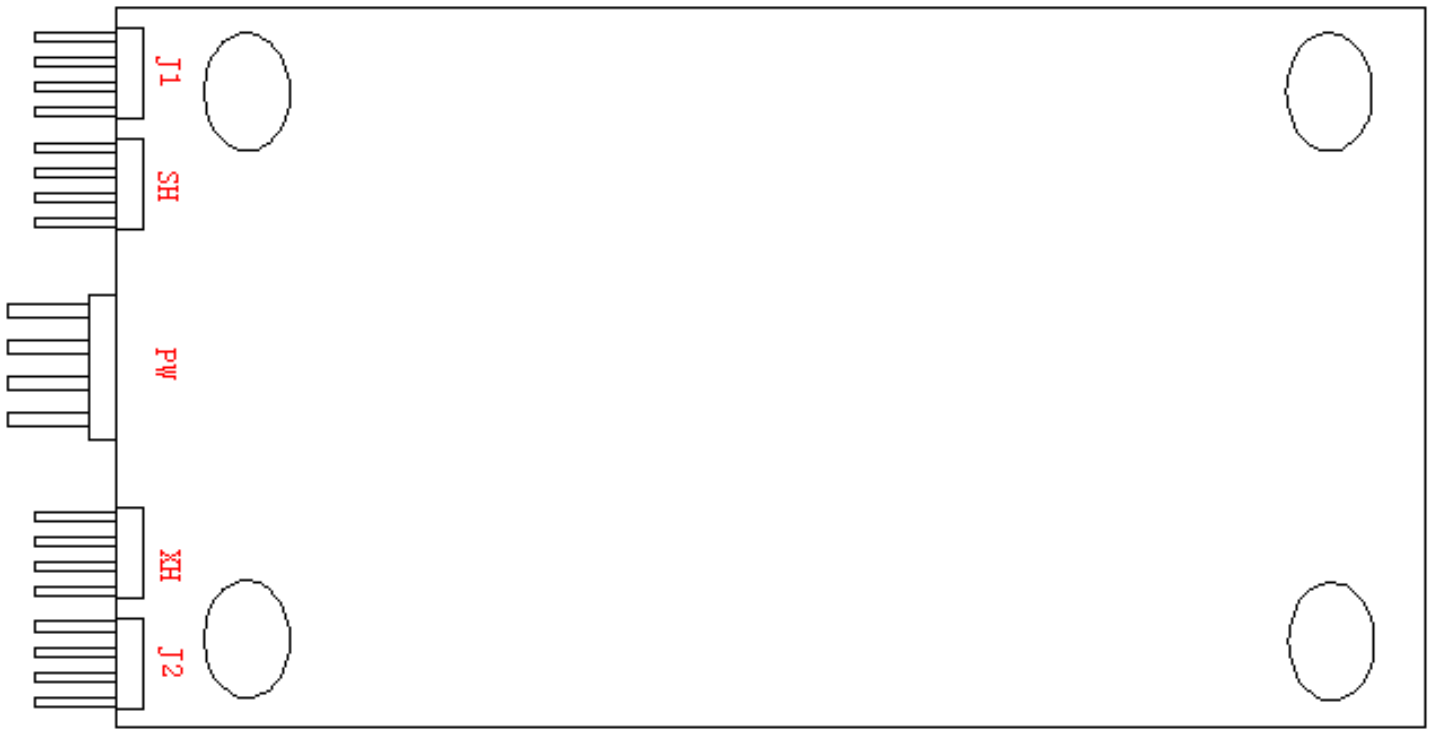
BL2000-HEH-N2.3 Dimensional Drawing



Dimensional Drawing of the front

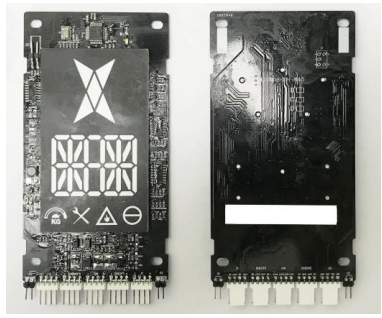


Dimensional Drawing of side



Dimensional Drawing of the back

Note: Refer to fig.2 in Appendix C for the dimensions of installation baseboard.

Model	BL2000-HEH-N4.5	Order information on: B conventional supply cycle.C/D contact the sales manager to confirm
Display type	Segment display	
Display direction	Vertical	
DIMENSIONS OF PCB	134mm*72mm*7.5mm	
Dimensions of Installation Baseboard	No installation baseboard	

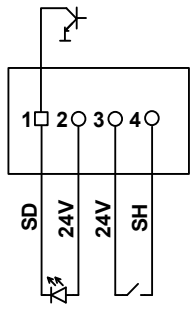
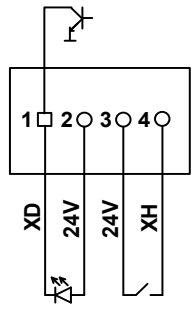
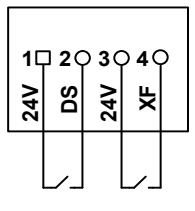
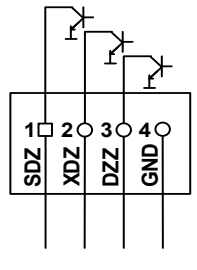
Information for similar type

Model	Display color	PCB COLOR
BL2000-HEH-N4.5 B/C/D	White character with black background /Orange character with black background / Orange-green character with black background	Black

Terminal definition and function description

Terminal	Function	Pin definition			
		1	2	3	4
PW	Power &communication	24V	GND	CANH	CANL
SH	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
J1	Serial input port	24V	Serial parking input(DS)	24V	Serial fire service(XF)
J2	Arrival output port	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	Arrival bell output(DZZ)	GND
S1	SERIAL COMMUNICATION TERMINAL RESISTOR JUMPER	Short jumper to connect serial communication resistor.			
SZ	Address jumper setting	Refer to Appendix A.1, A.2 for details.			
JC、SZ	Function setting jumper	Short JC and SZ at the same time， after power on， enter the function setting mode. Refer to appendixB.6 for details.			

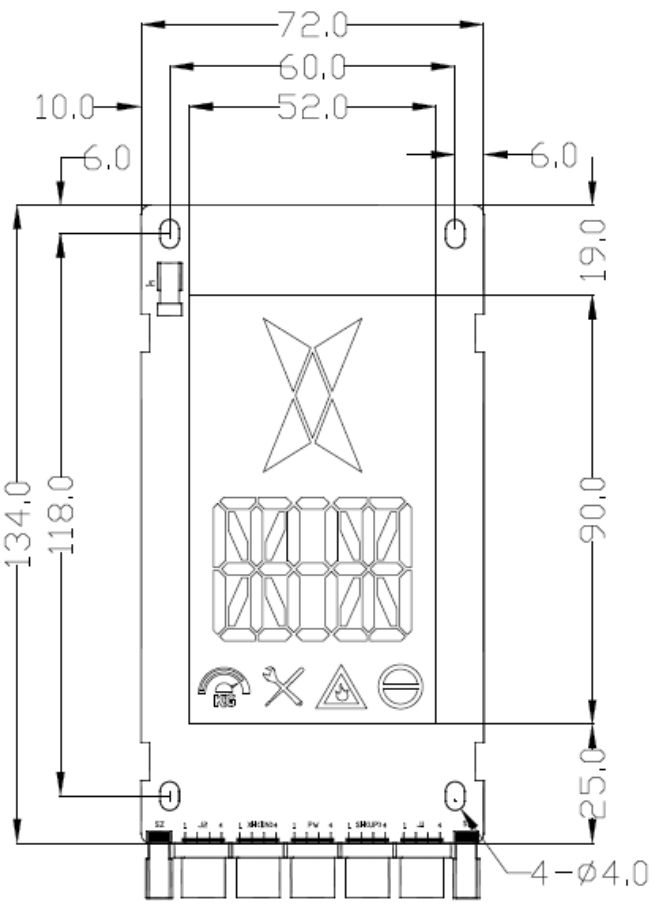
Terminal connection diagram

SH	XH	J1	J2
			

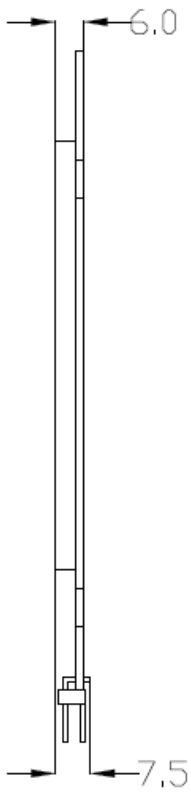
Note: The square bond pad of foot pins on terminal’ s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

BL2000-HEH-N4.5 Dimensional Drawing

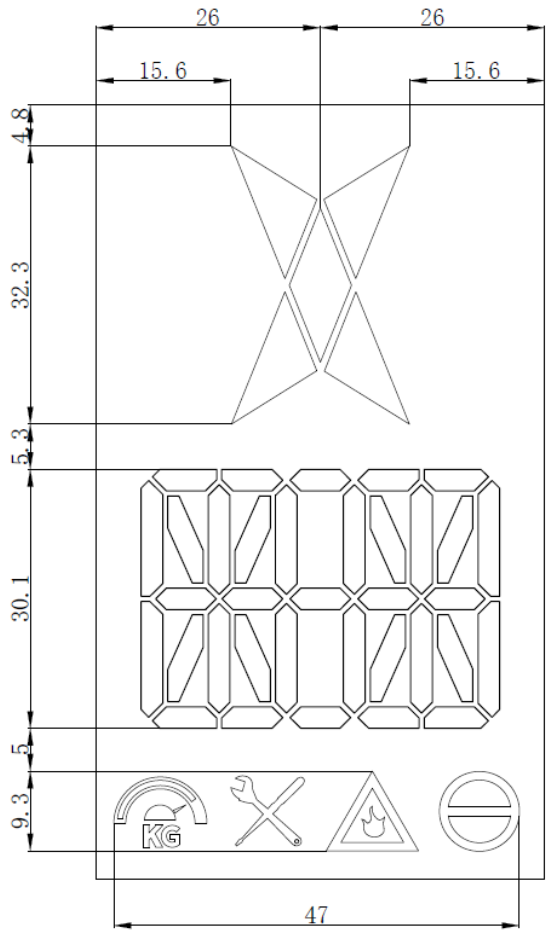
unit：mm



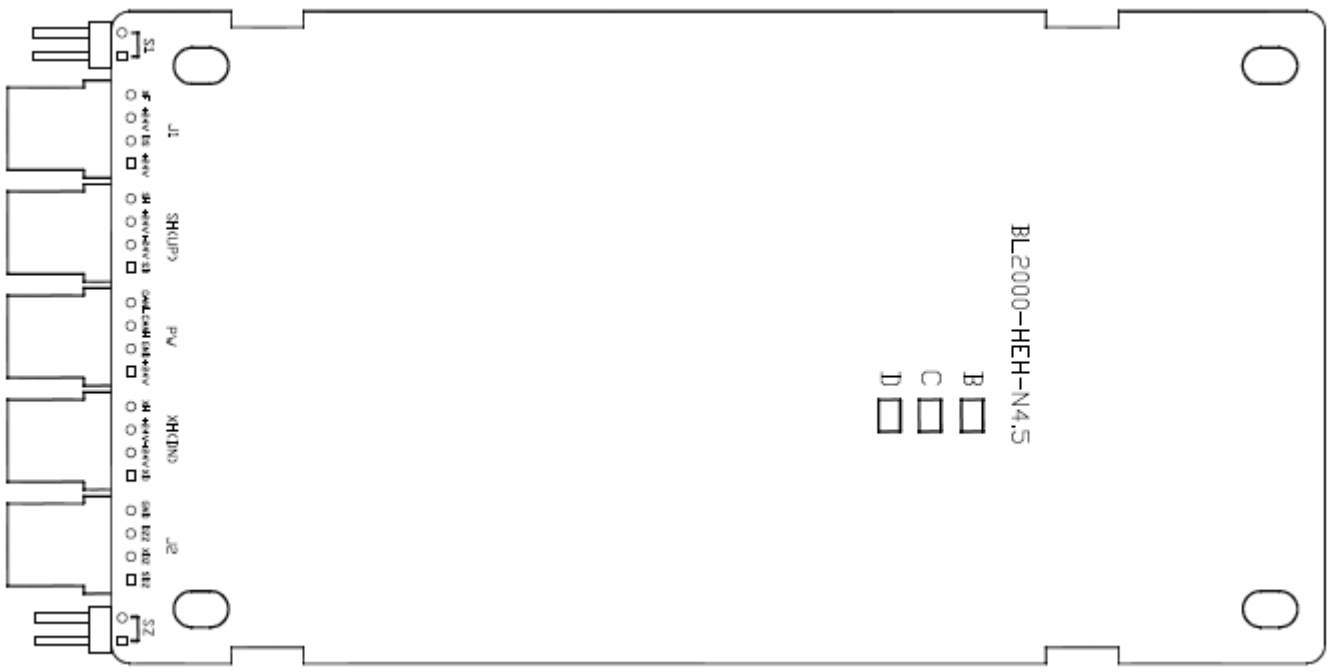
Dimensional Drawing of the front



Dimensional Drawing of side



Display Dimensional Drawing



Dimensional Drawing of the back

Model	BL2000-HEH-N6	Order Information: Conventional supply cycle
Display type	Segment display	
Display direction	Vertical	
DIMENSIONS OF PCB	140mm*140mm*12mm	
Dimensions of Installation Baseboard	No installation baseboard	

Information for similar type		
Model	Display color	PCB COLOR
BL2000-HEH-N6 B/C/D	White character with Black background / Orange character with black backgroun / Orange-green character with black background	Black

Terminal definition and function description

Terminal	Function	Pin definition			
		1	2	3	4
PW	Power &communication	24V	GND	CANH	CANL
PW1	Power &communication (Select Welding)	24V	GND	CANH	CANL

PW and PW1 are all power supply ports. PW is 3.96 mm pitch, and PW1 is 2.54 mm pitch. The product with PW is 12 mm thick, and with PW1 is 7.5mm thick, and only the PW terminal is welded when the product leaves the factory.

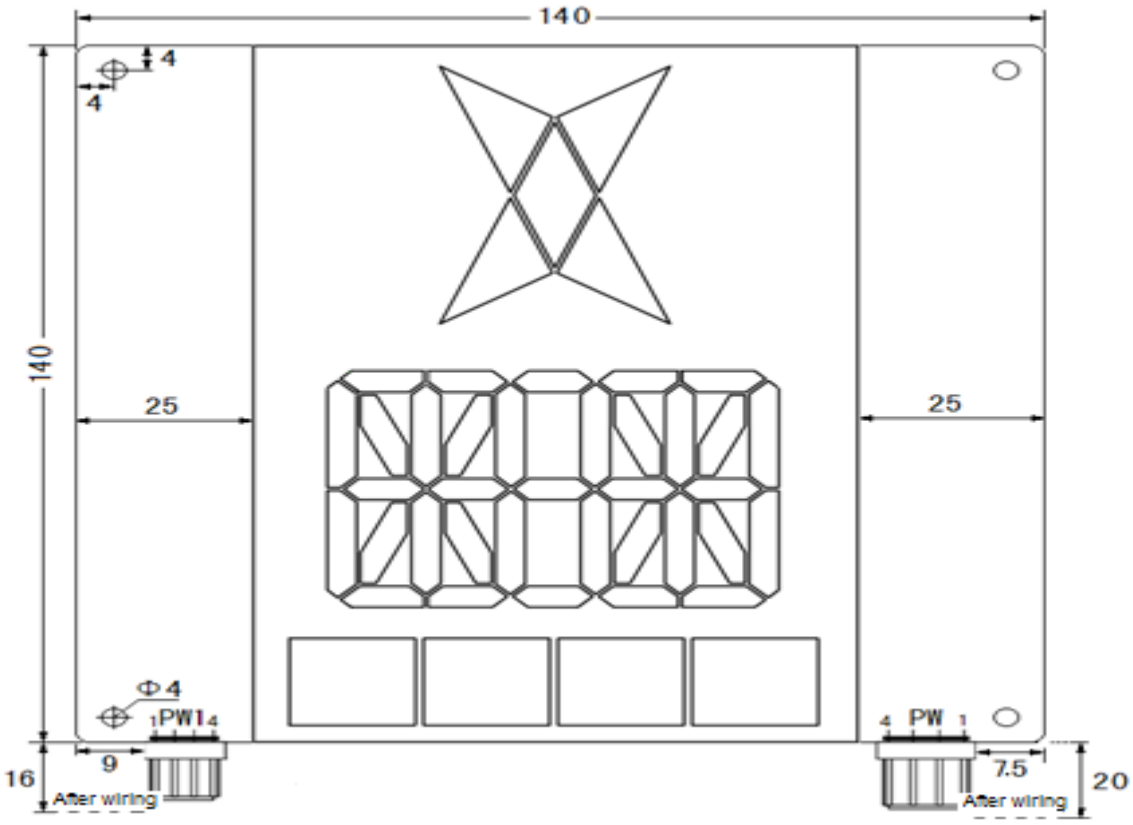
If welding the PW1 terminal is required, please indicate it when ordering.

S1	SERIAL COMMUNICATION TERMINAL RESISTOR JUMPER	Short jumper to connect serial communication resistor.
SZ	Function setting jumper	Short SZ，after power on，enter the function setting mode. Refer to appendixB.7 for details.

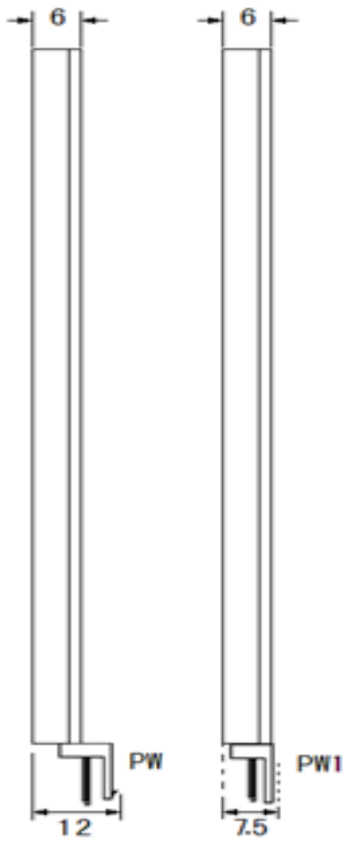
Note: The square bond pad of foot pins on terminal’ s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

BL2000-HEH-N6 Dimensional Drawing

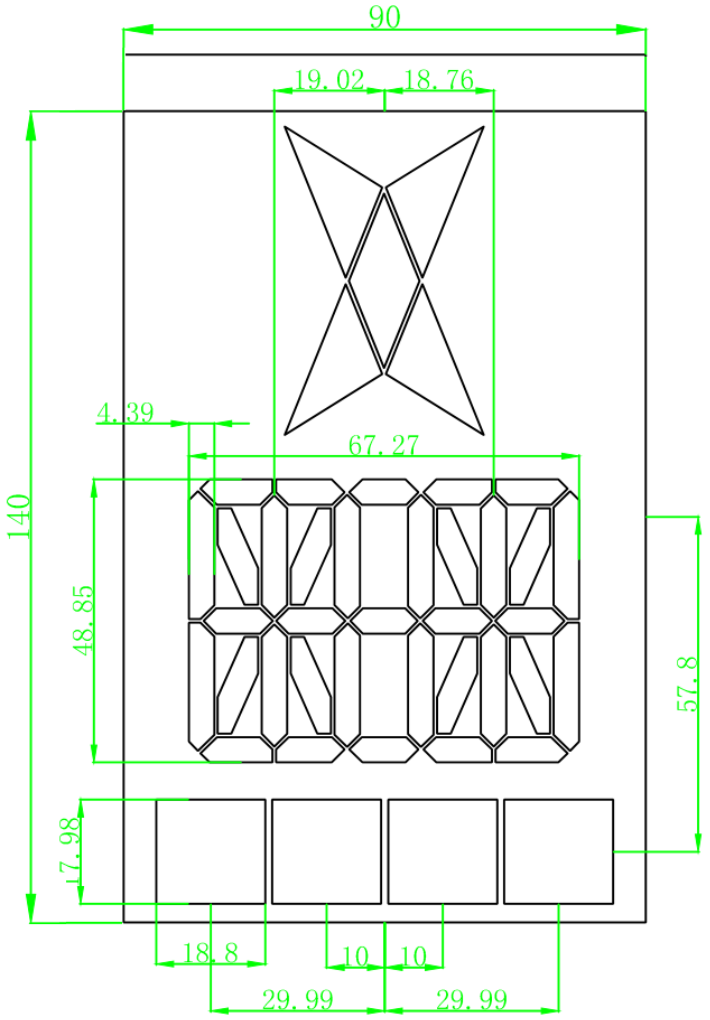
unit：mm



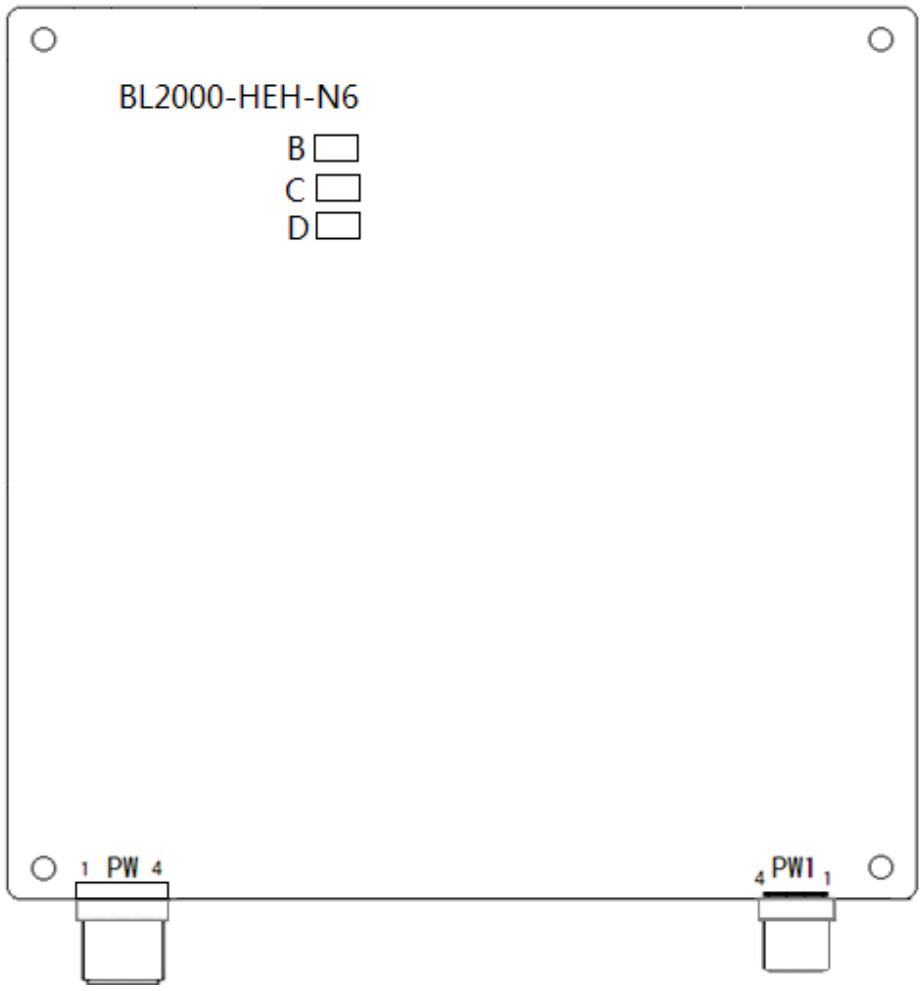
Dimensional Drawing of the front



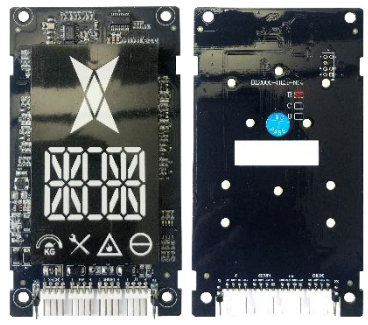
Dimensional Drawing of side



Dimensional Drawing of the screen



Dimensional Drawing of the back

Model	BL2000-HEH-N14	Order information on: B conventional supply cycle.C/D contact the sales manager to confirm
Display type	Segment display	
Display direction	Vertical	
DIMENSIONS OF PCB	130mm*72mm*7.5mm (The total thickness including the terminal is 14.6mm)	
Dimensions of Installation Baseboard	No installation baseboard	

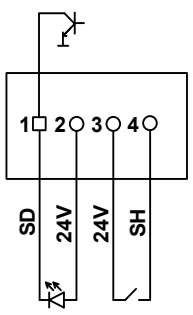
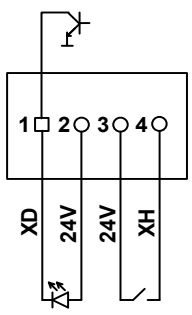
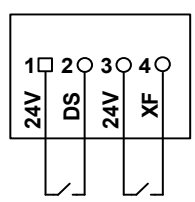
Information for similar type

Model	Display color	PCB COLOR
BL2000-HEH-N14 B/C/D	White character with Black background / Orange character with black background / Orange-green character with balck background	Black

Terminal definition and function description

Terminal	Function	Pin definition			
		1	2	3	4
PW	Power &communication	24V	GND	CANH	CANL
J1	Serial parking and fire input	24V	Serial parking input(DS)	24V	Serial fire service(XF)
SH	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
S1	SERIAL COMMUNICATION TERMINAL RESISTOR JUMPER	Short jumper to connect serial communication resistor.			
SZ	Address setting & Function setting jumper	Address setting refer to Appendix A.1&A.2 for details. Function setting refer to Appendix B.6 for details.			
P	Programming port	--			

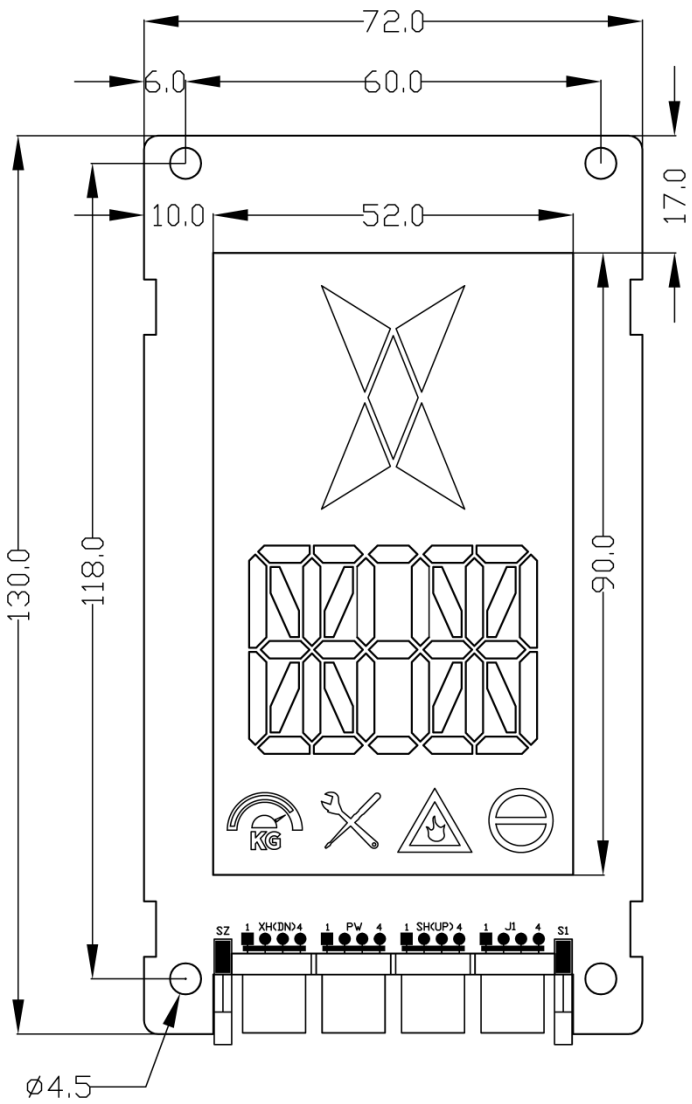
Terminal connection diagram

SH	XH	J1
		

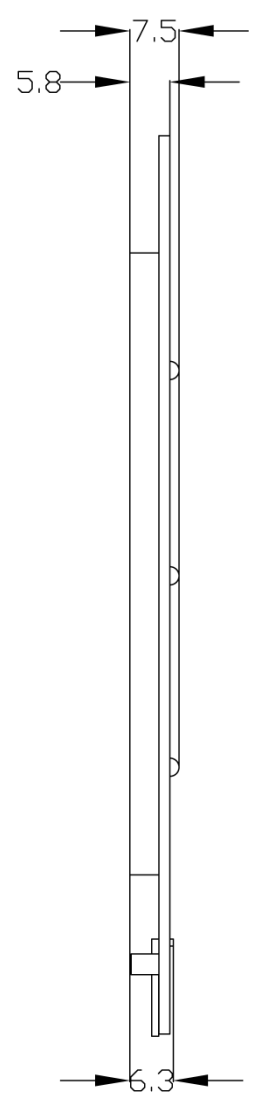
Note: The square bond pad of foot pins on terminal’ s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

BL2000-HEH-N14 Dimensional Drawing

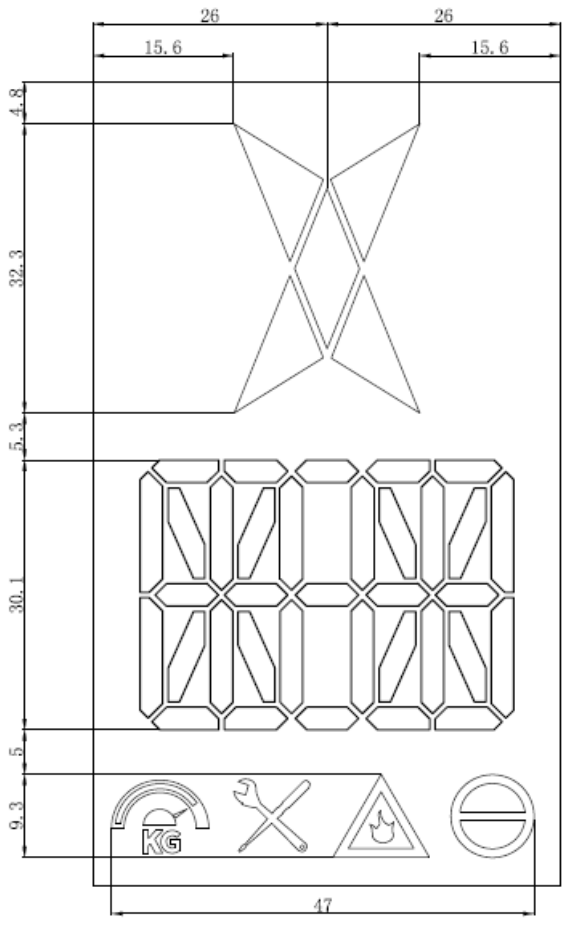
unit：mm



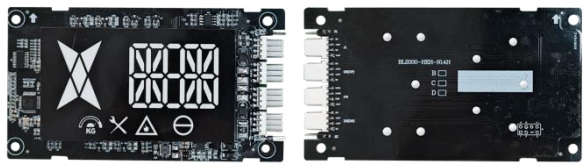
Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the screen

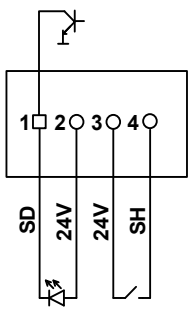
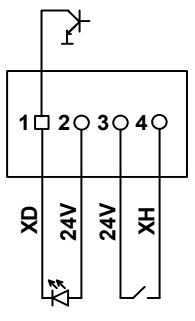
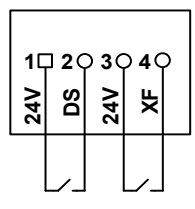
Model	BL2000-HEH-N14H	Order Information:B conventional supply cycle
Display type	Segment display	
Display direction	Horizontal	
DIMENSIONS OF PCB	130mm*72mm*7.5mm (The total thickness including the terminal is 14.6mm)	
Dimensions of Installation Baseboard	No installation baseboard	

Information for similar type		
Model	Display color	PCB COLOR
BL2000-HEH-N14H B	White character with Black backgroun	black

Terminal definition and function description

Terminal	Function	Pin definition			
		1	2	3	4
PW	Power &communication	24V	GND	CANH	CANL
J1	串行电锁及消防输入	24V	Serial parking input(DS)	24V	Serial fire service(XF)
SH	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
S1	SERIAL COMMUNICATION TERMINAL RESISTOR JUMPER	Short jumper to connect serial communication resistor.			
SZ	Address setting & Function setting jumper	Address setting refer to Appendix A.1&A.2 for details. Function setting refer to Appendix B.6 for details.			
P	Programming port	--			

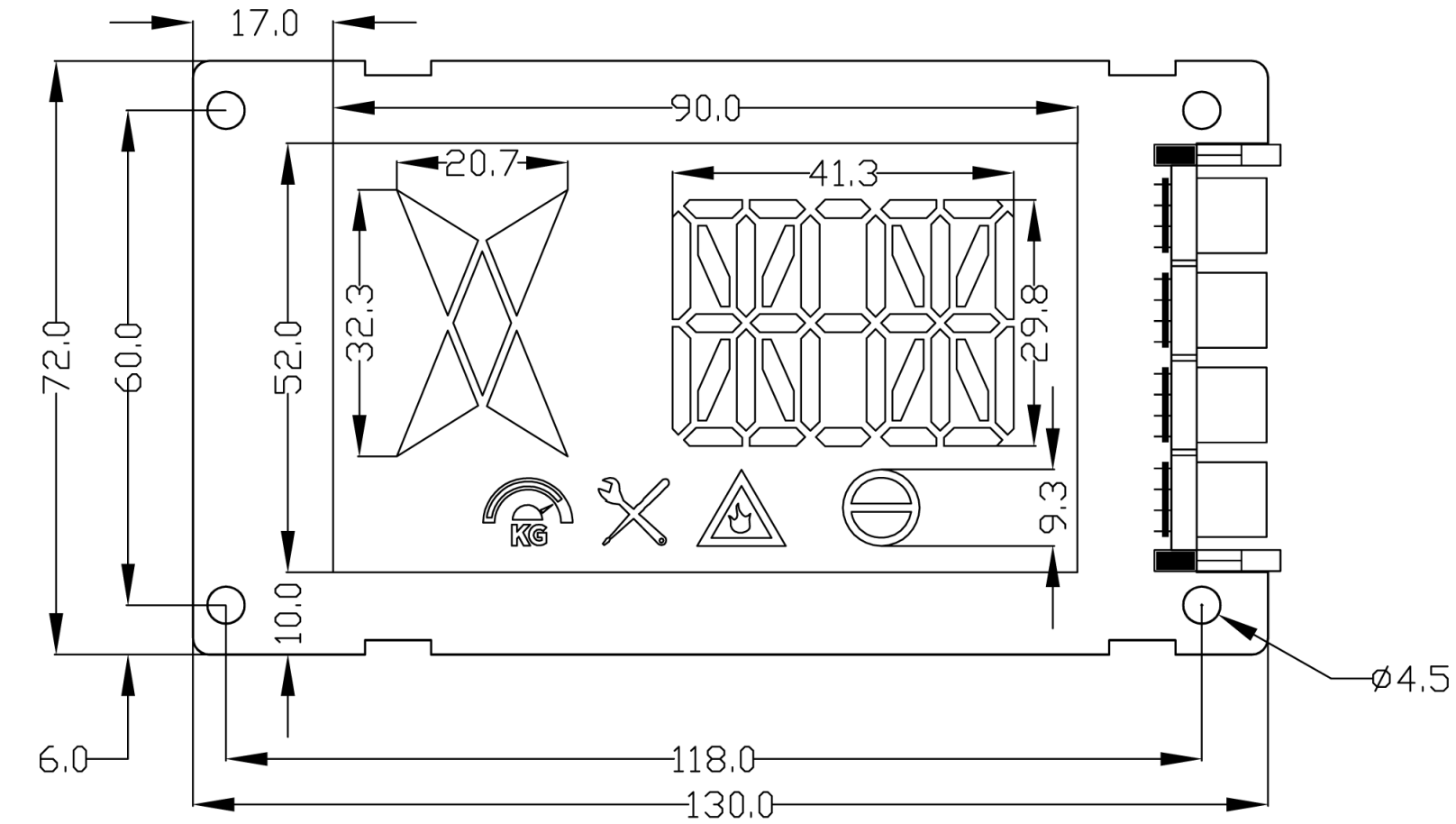
Terminal connection diagram

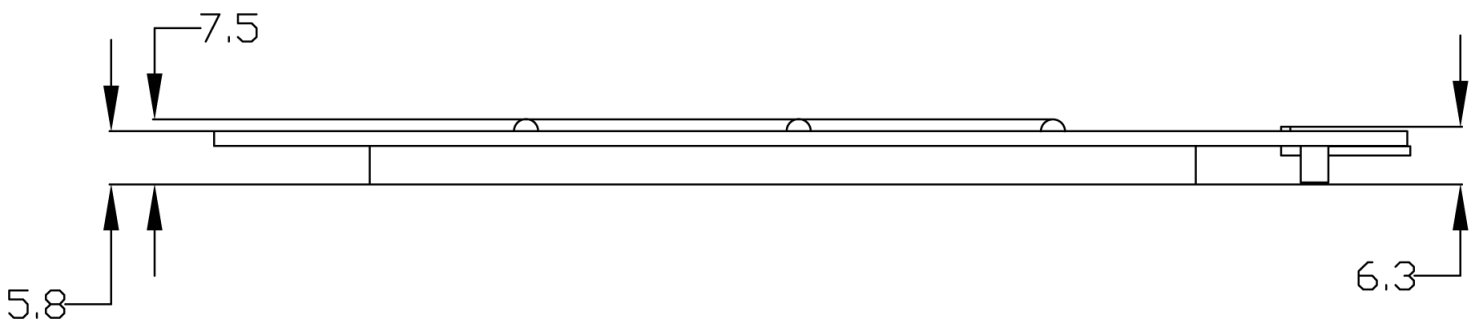
SH	XH	J1
		

Note: The square bond pad of foot pins on terminal’ s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

BL2000-HEH-N14H Dimensional Drawing

unit：mm





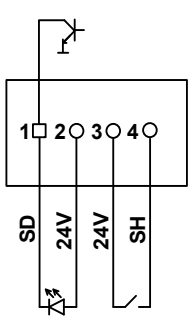
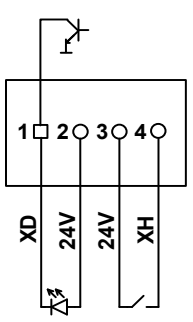
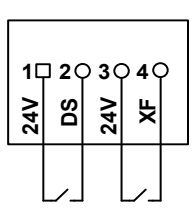
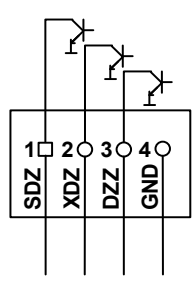
Model	BL2000-HEH-P1	Order information on: A/B conventional supply cycle.C contact the sales manager to confirm
LCD type	Segment LCD	
Display direction	Vertical	
DIMENSIONS OF PCB	176mm*126mm*13.5mm	
Dimensions of Installation Baseboard	No installation baseboard	

Information for similar type		
Model	Display color	PCB COLOR
BL2000-HEH-P1 A/B/C	**A** white character with Blue background /**B** White character with Black background /**C** Yellow character with Black background	GREEN

Terminal definition and function description

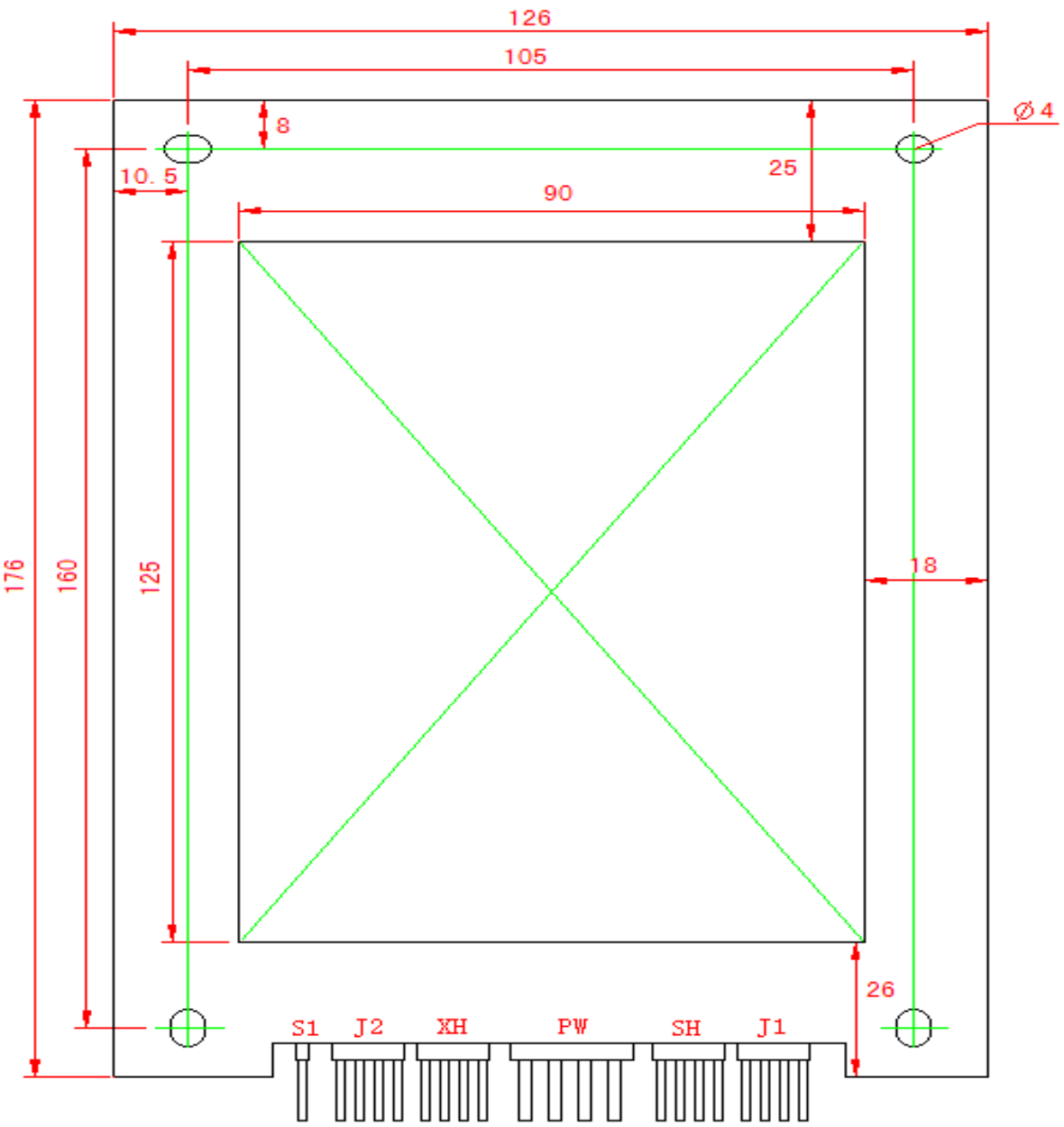
Terminal	Terminal specifications	功能	Pin definition			
			1	2	3	4
PW	3.96-490°	Power &communication	24V	GND	CANH	CANL
SH	2.54-490°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-490°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
J1	2.54-490°	Serial input port	24V	Serial parking input(DS)	24V	Serial fire service(XF)
J2	2.54-490°	Arrival output port	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	Arrival bell output(DZZ)	GND
S1	2.54-290°	SERIAL COMMUNICATION TERMINAL RESISTOR JUMPER	Short jumper to connect serial communication resistor			
AN		Address setting key	Refer to Appendix A.1 for details、A.2			
JC	2.54-290°	Detection&Function setting jumper	Short JC, enter the self-check function after power on, press the up call button and the down call button at the same time, enter the function setting after 2-3 seconds, and you can make different display configurations, refer to Appendix B.2 for details.			

Terminal connection diagram

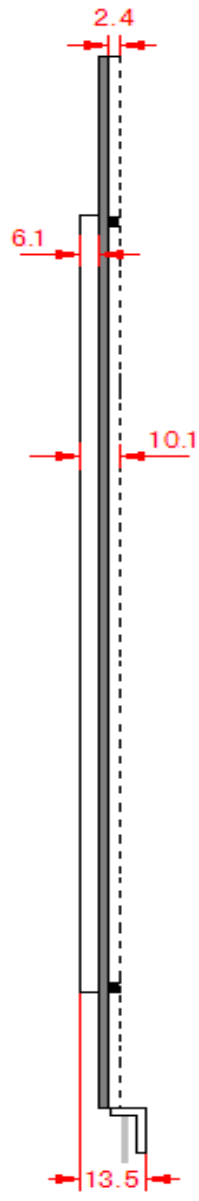
SH	XH	J1	J2
			

Note: The square bond pad of foot pins on terminal's back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

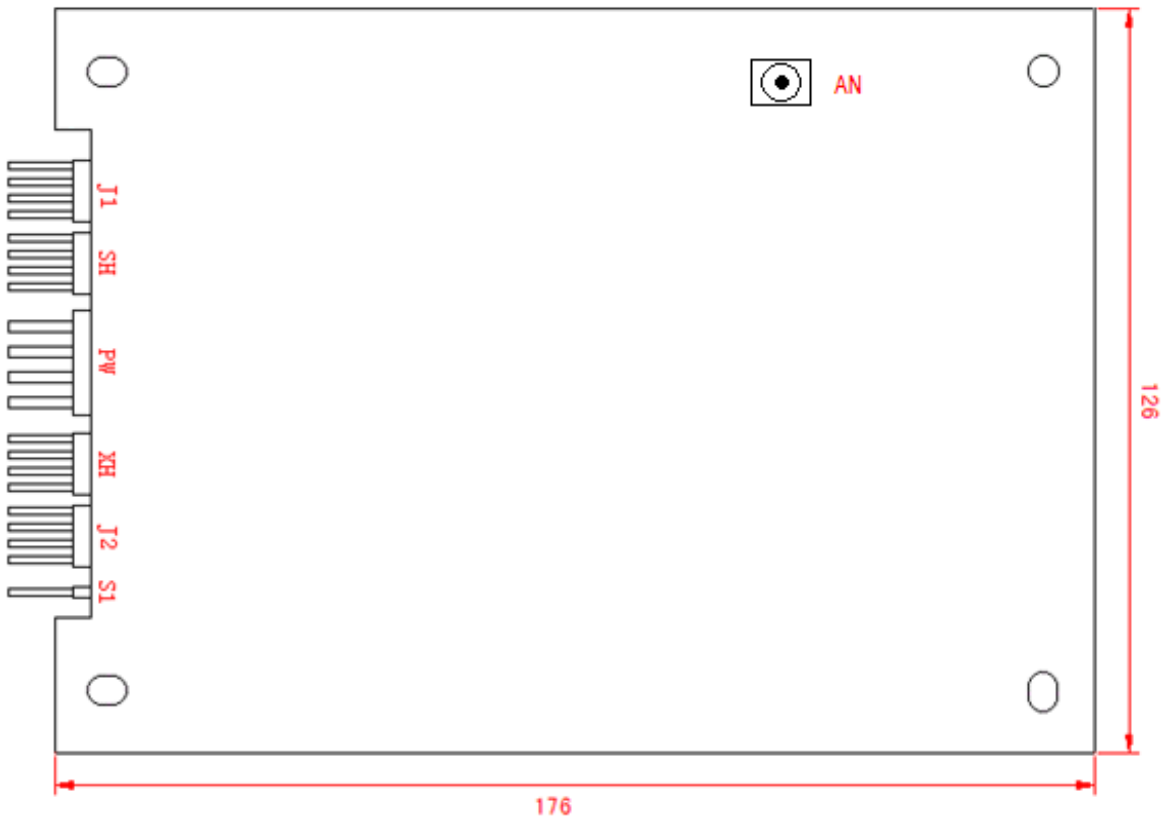
BL2000-HEH-P1 Dimensional Drawing



Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

Model	BL2000-HEH-Q1	Order information on: A/B conventional supply cycle.C contact the sales manager to confirm
LCD type	Segment LCD	
Display direction	Horizontal	
DIMENSIONS OF PCB	136mm*154mm*13.5mm	
Dimensions of Installation Baseboard	No installation baseboard	

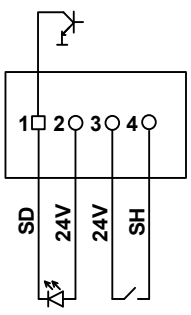
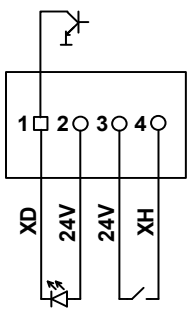
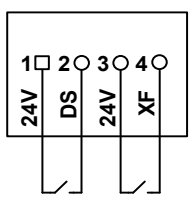
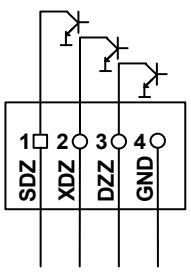
Information for similar type

Model	Display color	PCB COLOR
BL2000-HEH-Q1 A/B/C	**A** white character with Blue background /**B** White character with Black background /**C** Yellow character with Black backgroun	green

Terminal definition and function description

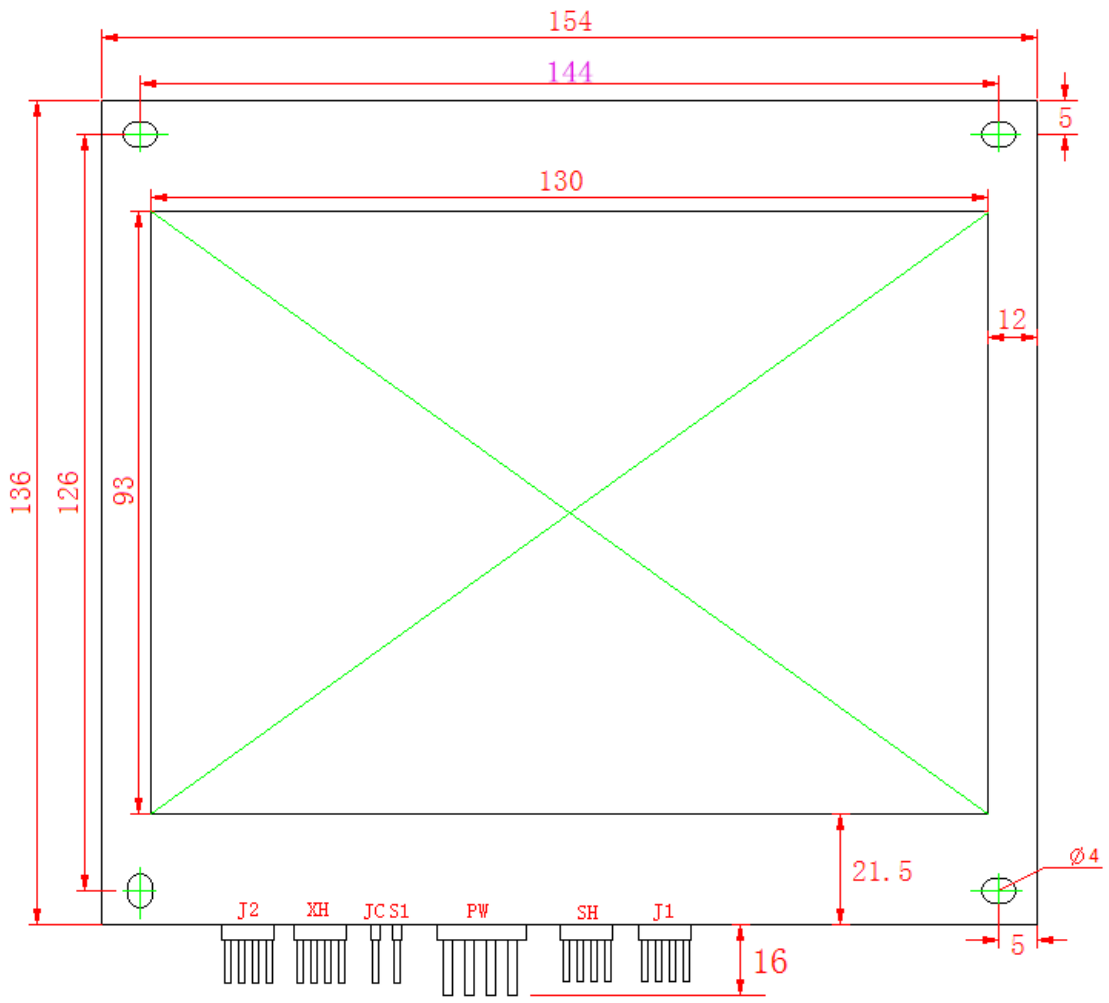
Terminal	Terminal specifications	function	Pin definition			
			1	2	3	4
PW	3.96-490°	Power &communication	24V	GND	CANH	CANL
SH	2.54-490°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-490°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
J1	2.54-490°	Serial input port	24V	Serial parking input(DS)	24V	Serial fire service(XF)
J2	2.54-490°	Arrival output port	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	Arrival bell output(DZZ)	GND
S1	2.54-290°	SERIAL COMMUNICATION TERMINAL RESISTOR JUMPER	Short jumper to connect serial communication resistor.			
AN		Address setting key	Refer to Appendix A.1, A.2for details.			
JC	2.54-290°	Detection&Function setting jumper	Short JC, enter the self-check function after power on, press the up call button and the down call button at the same time, enter the function setting after 2-3 seconds, and you can make different display configurations, refer to Appendix B.2 for details.			

Terminal connection diagram

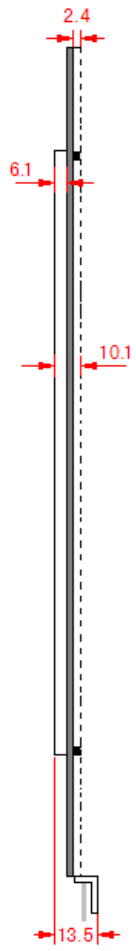
SH	XH	J1	J2
			

Note: The square bond pad of foot pins on terminal’ s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

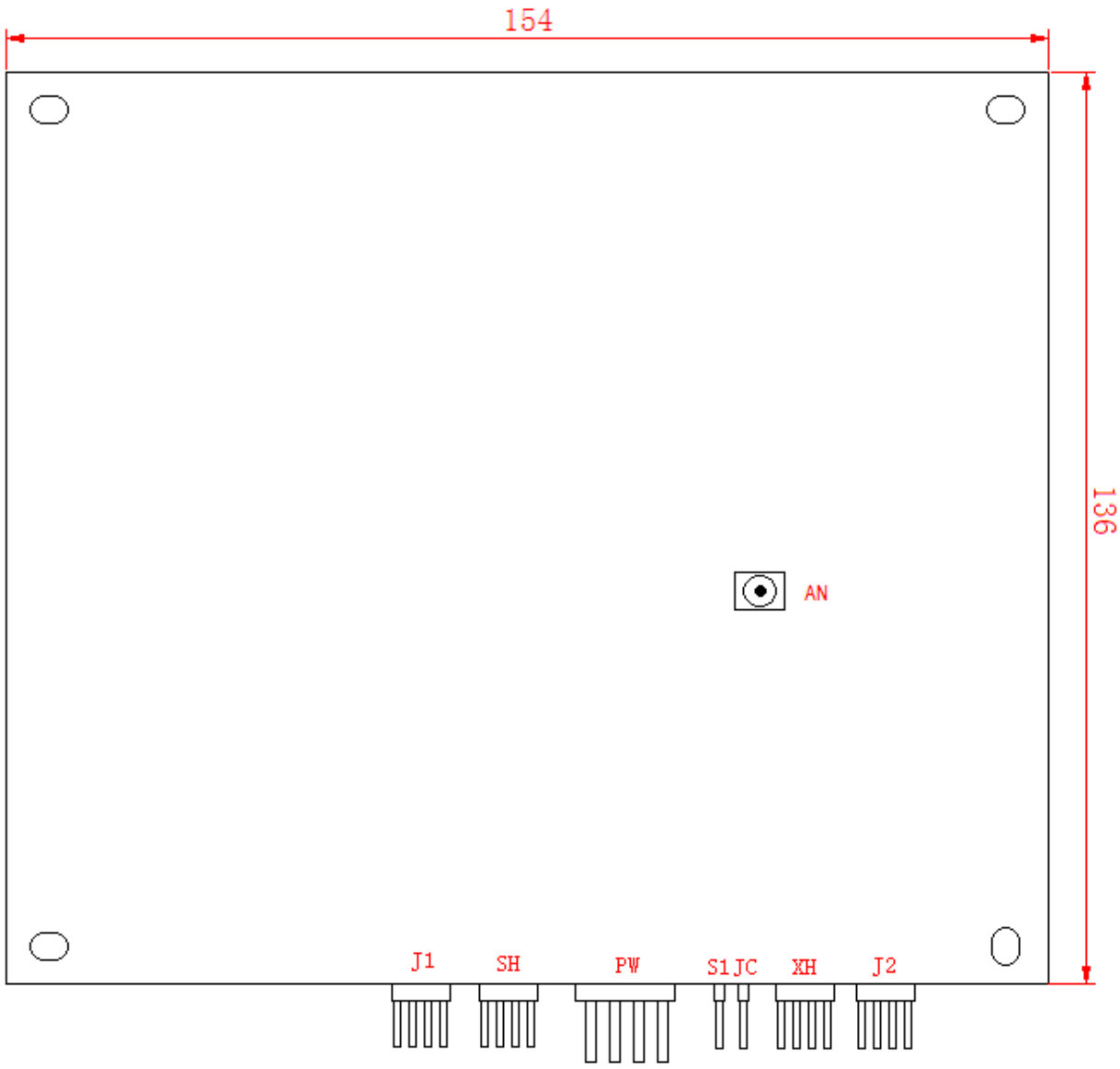
BL2000-HEH-Q1 Dimensional Drawing



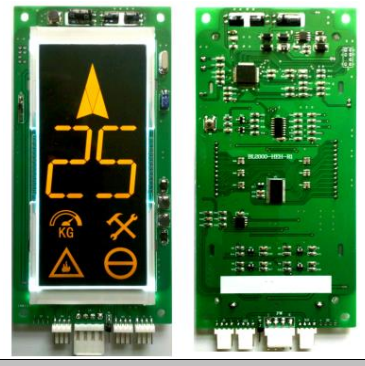
Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

Model	BL2000-HEH-R1.3	Order information on： contact the sales manager to confirm
LCD type	Segment LCD	
Display direction	Vertical	
DIMENSIONS OF PCB	175mm*85mm*13.5mm	
Dimensions of Installation Baseboard	No installation baseboard	

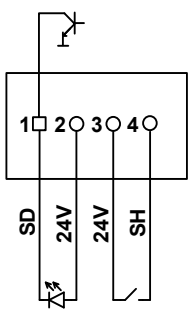
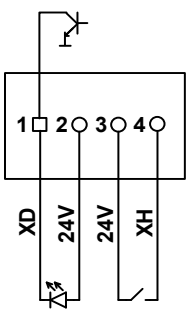
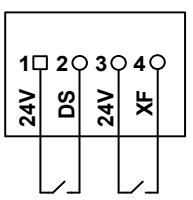
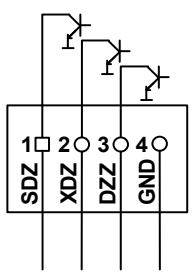
Information for similar type

Model	Display color	PCB COLOR
BL2000-HEH-R1.3 B/C	White character with Black background/ Yellow character with Black background	Green

Terminal definition and function description

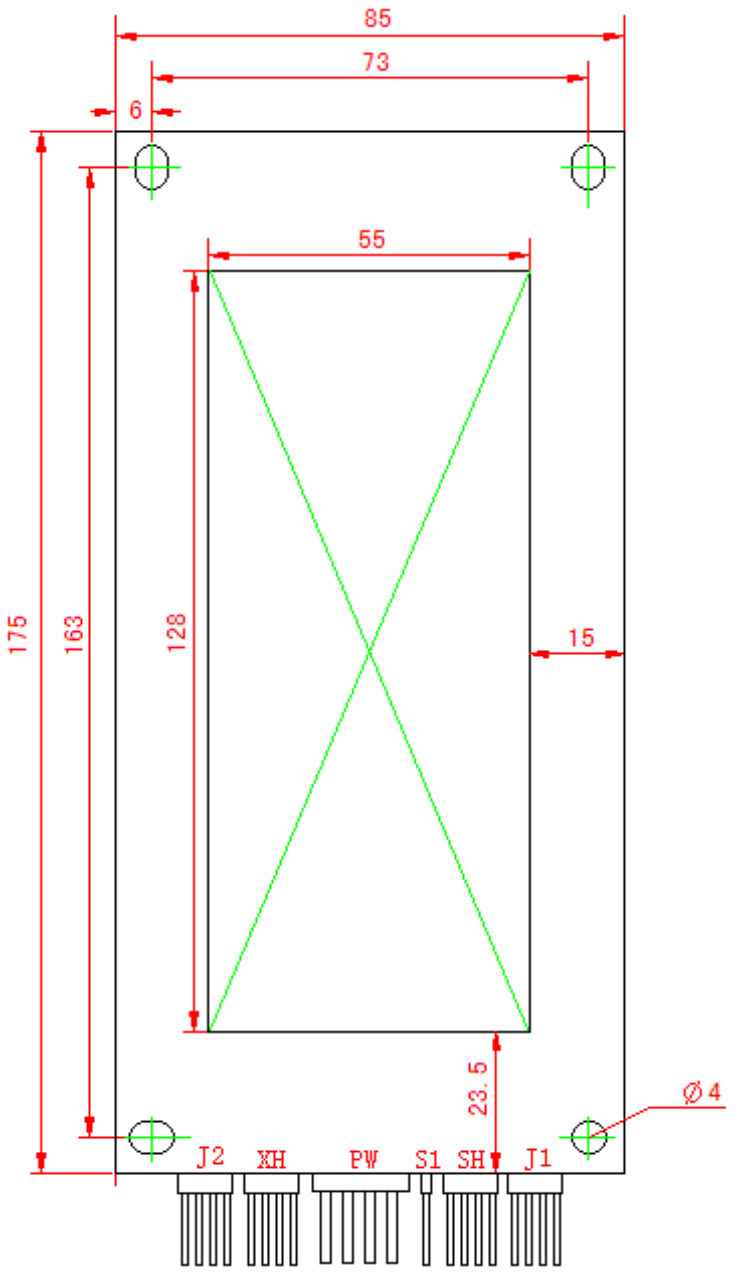
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	3.96-490°	Power &communication	24V	GND	CANH	CANL
SH	2.54-490°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-490°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
J1	2.54-490°	Serial input port	24V	Serial parking input(DS)	24V	Serial fire service(XF)
J2	2.54-490°	Arrival output port	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	Arrival bell output(DZZ)	GND
S1	2.54-290°	SERIAL COMMUNICATION TERMINAL RESISTOR JUMPER	Short jumper to connect serial communication resistor.			
AN		Address setting key	Refer to Appendix A.1 A.2for details.			
JC	2.54-290°	Detection&Function setting jumper	Short JC, enter the self-check function after power on, press the up call button and the down call button at the same time, enter the function setting after 2-3 seconds, and you can make different display configurations, refer to Appendix B.2 for details.			

Terminal connection diagram

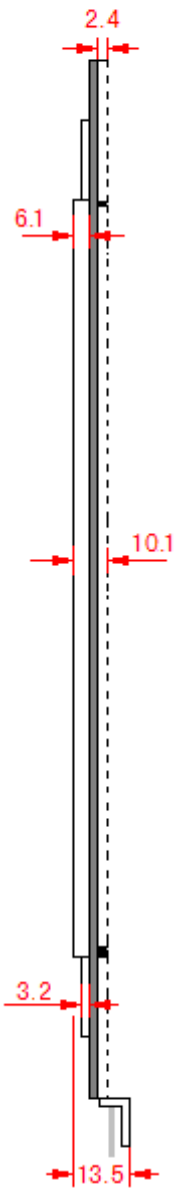
SH	XH	J1	J2
			

Note: The square bond pad of foot pins on terminal’ s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

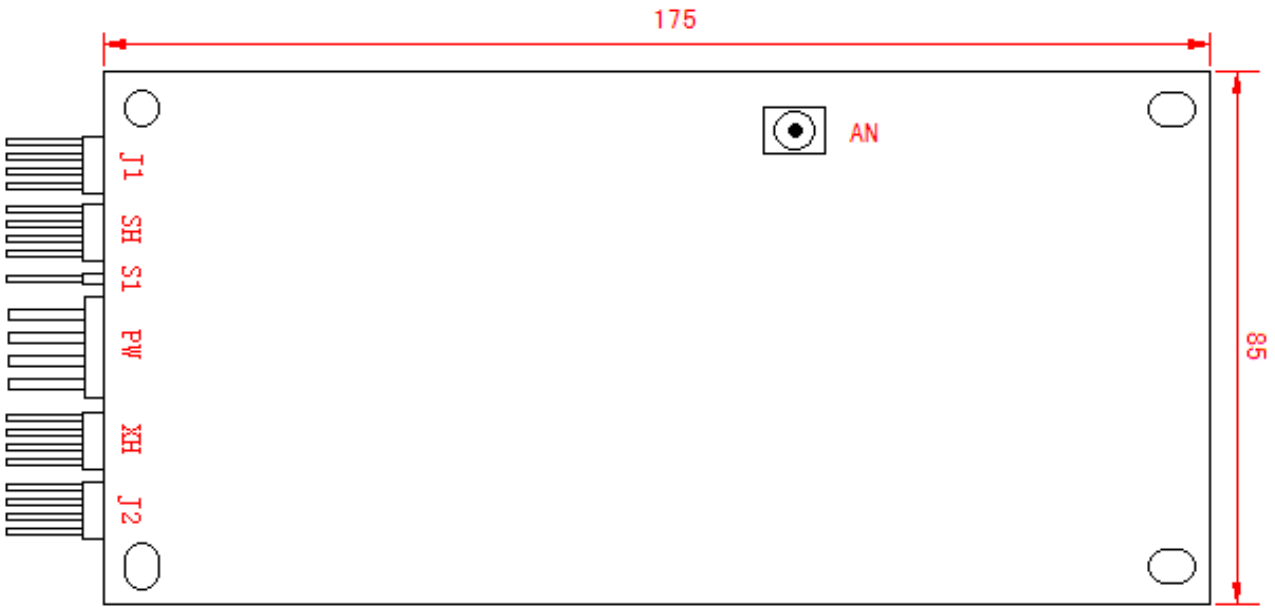
BL2000-HEH-R1.3 Dimensional Drawing



Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

Model	BL2000-HEH-S1	Order information on： contact the sales manager to confirm
LCD type	Segment LCD	
Display direction	Vertical	
DIMENSIONS OF PCB	144mm*70mm*10.2mm	
Dimensions of Installation Baseboard	No installation baseboard	

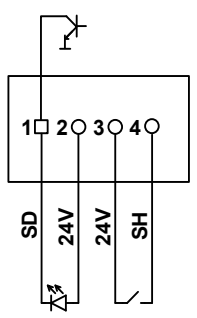
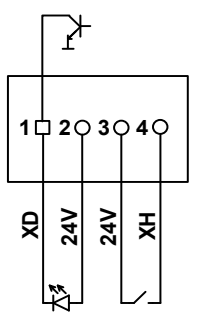
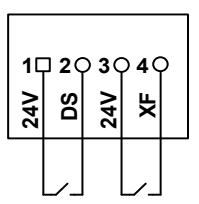
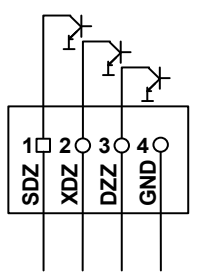
Information for similar type

Model	Display color	PCB COLOR
BL2000-HEH-S1 A/B/C	white character with Blue background /White character with Black background /Yellow character with Black background	Green

Terminal definition and function description

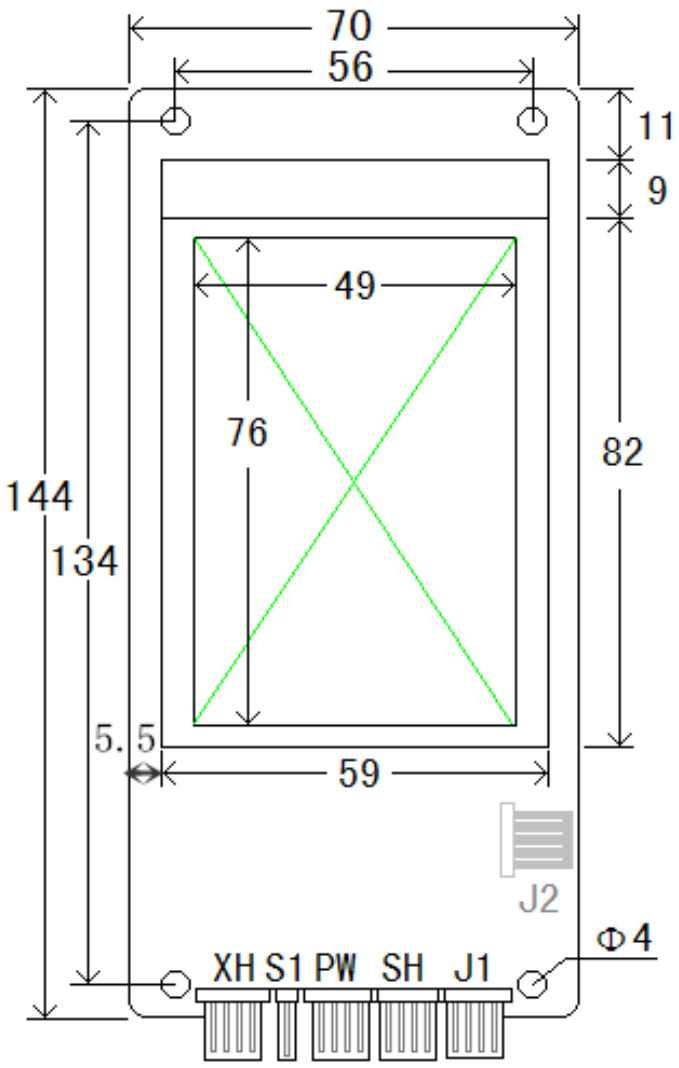
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW	2.54-490°	Power &communication	24V	GND	CANH	CANL
SH	2.54-490°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH	2.54-490°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
J1	2.54-490°	Serial input port	24V	Serial parking input(DS)	24V	Serial fire service(XF)
J2	2.54-490°	Arrival output port	Up arrival lamp output(SDZ)	Down arrival lamp output(XDZ)	Arrival bell output(DZZ)	GND
S1	2.54-290°	SERIAL COMMUNICATION TERMINAL RESISTOR JUMPER	Short jumper to connect serial communication resistor			
AN		Address setting key	Refer to Appendix A.1 for details、A.2			
JC	2.54-290°	Detection&Function setting jumper	Short JC, enter the self-check function after power on, press the up call button and the down call button at the same time, enter the function setting after 2-3 seconds, and you can make different display configurations, refer to Appendix B.2 for details.			

Terminal connection diagram

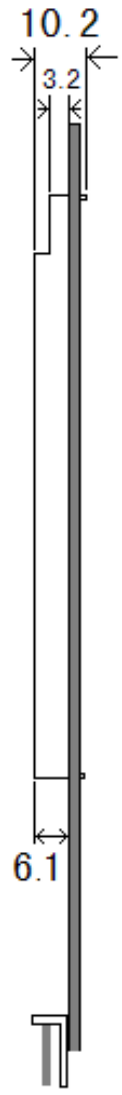
SH	XH	J1	J2
			

Note: The square bond pad of foot pins on terminal’ s back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

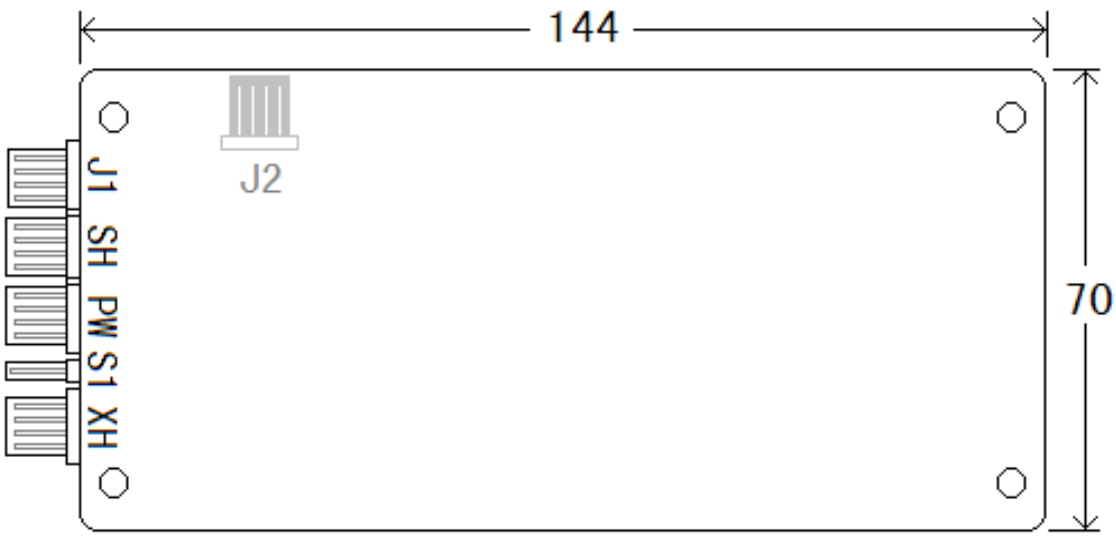
BL2000-HEH-S1 Dimensional Drawing



Dimensional Drawing of the front



Dimensional Drawing of side



Dimensional Drawing of the back

Model	BL2000-HEH-M7	Order Information on: Conventional supply cycle
LCD type	7inch TFT ture color	 
Display direction	Horizontal/Vertical	
DIMENSIONS OF PCB	108mm*188mm*30.5mm	
Dimensions of Installation Baseboard	None	

Information for similar type

Model	Functional Difference	Horizontal/Vertical
BL2000-HEH-M7	7-inch True color voice display with speaker and voice function	Horizontal/Vertical
BL2000-HEH-M7A	7-inch True color display, without speakers, without voice function	Horizontal/Vertical
BL2000-HEH-M7B	7-inch True color voice display, with speaker, voice function, backup power input terminal, support power outage broadcast	Horizontal/Vertical

Terminal definition and function description

Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
BAT (only M7B)	5.08-290°	Standby power port	Standby power+ (12V-24V)	Standby power- (0V)	-	-
PW	3.96-490°	Power &communication	24V	GND	CANH	CANL
S1	2.54-290°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
USB	USB Port	Connect U disk	Replace pictures and voices by connecting a U-disk.			
Set	Press-key	Setting button	In menu interface, press set press-key to set parameters.			
Menu	Press-key	Setting button	Press MODE press-key to enter the menu and press MODE press-key to change menu.			

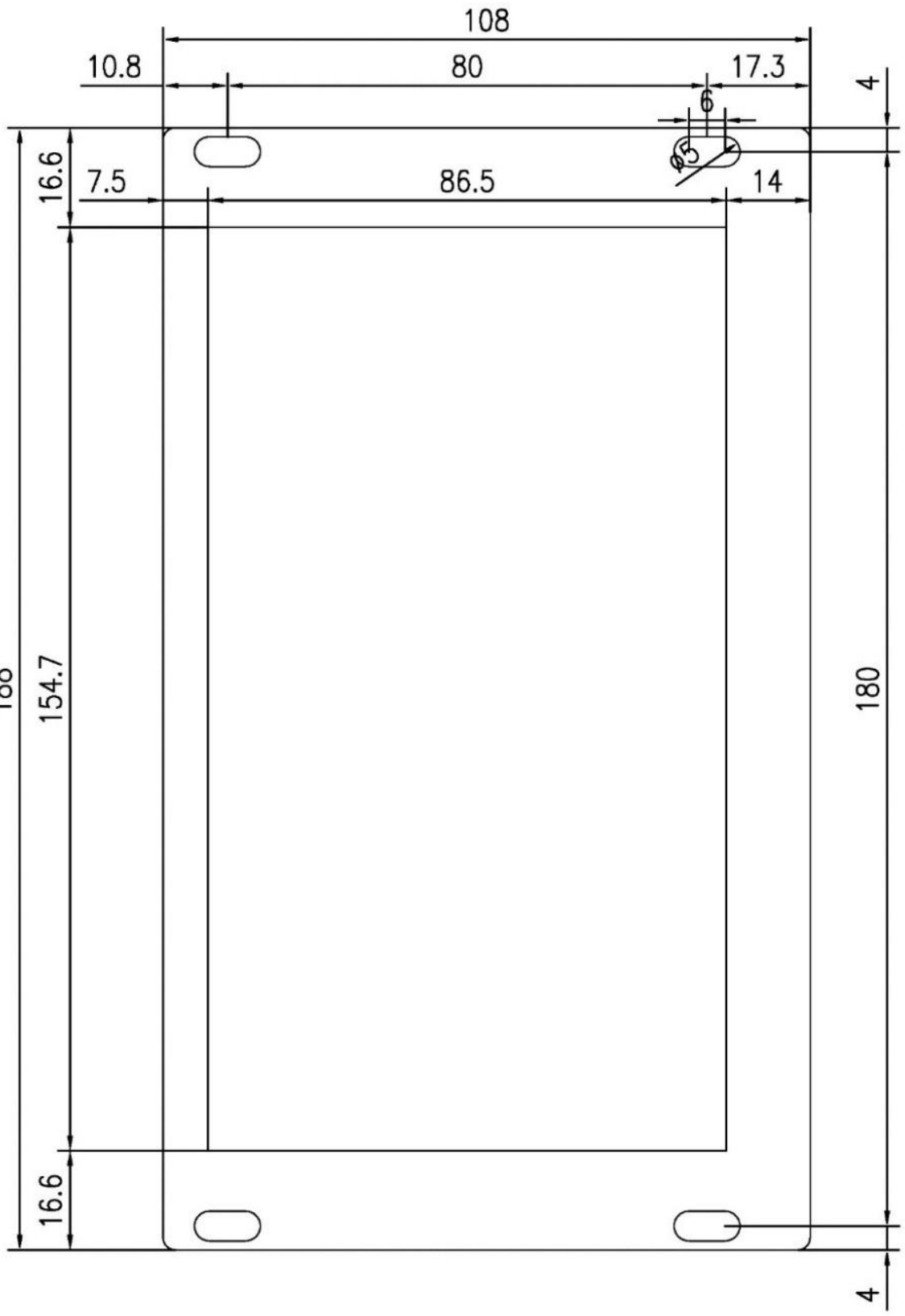
Functon Descriptions

This product is a 7 inch car interior display panel, and can not be used as a calling board.

Elevator display	Display the floor, direction and status of elevator in real time.
Alarm display	Receive the elevator signal in real time, display "Overload", "Fire", "Inspection" and other warning information, which displayed in Chinese or English is avilable.
Picture playback	Loop playback pictures (bmp format).
News display	The interface can display user's LOGO, date, week and information, and keystroke adjustment, make easier operation.
USB update	Built in 128M storage space, through the U disk to achieve the update of the content of the picture, after the content is updated, the U disk can be removed, and the operation is simple and convenient.
Interface switching	Built-in horizontal and vertical interface, Chinese and English interface, users can be free to choose through the buttons on the LCD.
Voice announcement function (BL2000-HEH-M7A not available)	Built-in speaker with voice announcement function, display music, welcome words, ding-dong sound, floor voice, fire, overload, etc.

Note ： The PW terminal is away from the USB interface pin 1 and closer to the USB interface pin 4.

BL2000-HEH-M7 Dimensional Drawing



Dimensional Drawing of the front

Dimensional Drawing of side

Port-transformer Type Call Display Board

Model	BL2000-HQK-V9.2	Order Information: Conventional supply cycle
Production Function	Calling board of Group control	
DIMENSIONS OF PCB	66mm*97mm*20mm	
Dimensions of Installation Baseboard	No installation baseboard	

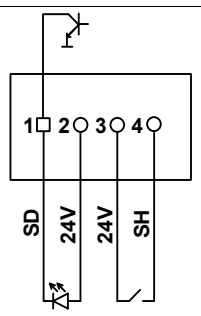
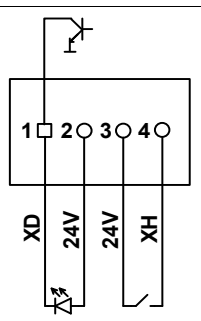
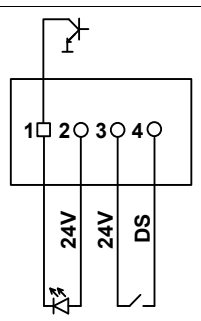
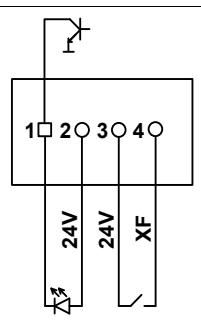
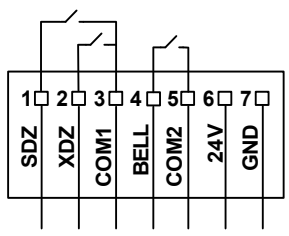
Information for similar type

Model	Display color	PCB COLOR
——	——	Green

Terminal definition and function description

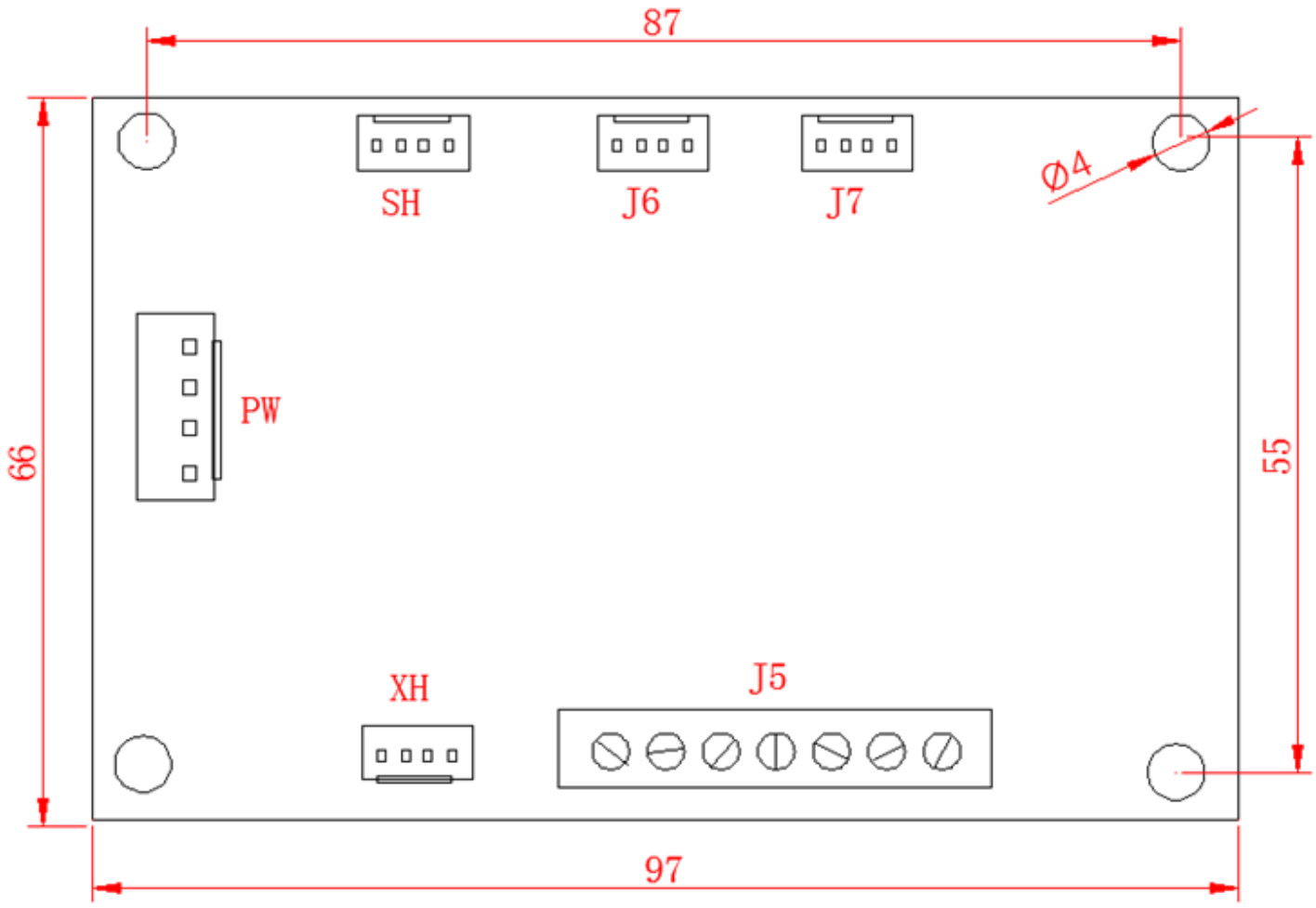
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
PW(J1)	3.96-4180°	Power &communication	24V	GND	CANH	CANL
SH(J2)	2.54-4180°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
XH(J3)	2.54-4180°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
BY0(J6)	2.54-4180°	Serial parking input	Standby answer	24V	24V	Serial parking input(DS)
BY1(J7)	2.54-4180°	Serial fire service	Standby answer	24V	24V	Serial fire service(XF)
J5	5.08-7180°	Arrival output port (Relay output))	1-Up arrival lamp output(SDZ)	2-Down arrival lamp output(XDZ)	3-Arrival common	4-Arrival bell outputA(DZZ-A)
			5-Arrival bell outputB(DZZ-B)	6-24V	7-GND	——
S1	2.54-2180°	SERIAL COMMUNICATION TERMINAL RESISTOR JUMPER	Short jumper to connect serial communication resistor.			
SZ	2.54-2180°	Address jumper setting	Refer to Appendix A.1 、A.2for details.			
AN		Address setting key	Refer to Appendix A.1 、A.2for details.			
JC、EN	2.54-2180°	Function setting jumper	Short JC and EN/DS at the same time, enter the function setting mode. Refer to Appendix B.4 for details.			

Terminal connection diagram

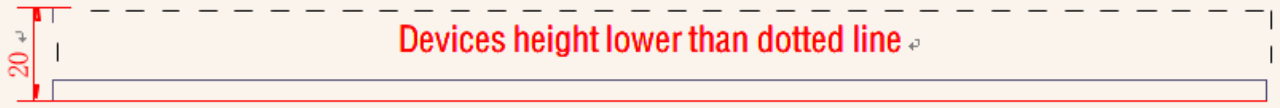
SH	XH	BY0	BY1	J5
				

Note: The square bond pad of foot pins on terminal's back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

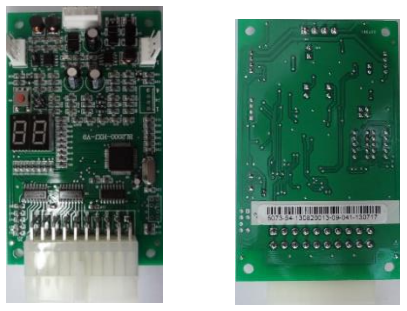
BL2000-HQK-V9.2 Dimensional Drawing



Dimensional Drawing of the front



Dimensional Drawing of side

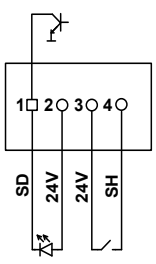
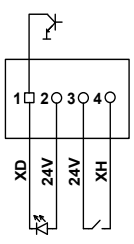
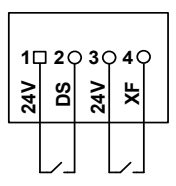
Model	BL2000-HXJ-V9	Order Information: Conventional supply cycle
Production Function	Calling board of Group control	
DIMENSIONS OF PCB	107mm*65mm*16.5mm	
Dimensions of Installation Baseboard	No installation baseboard	

Terminal definition and function description

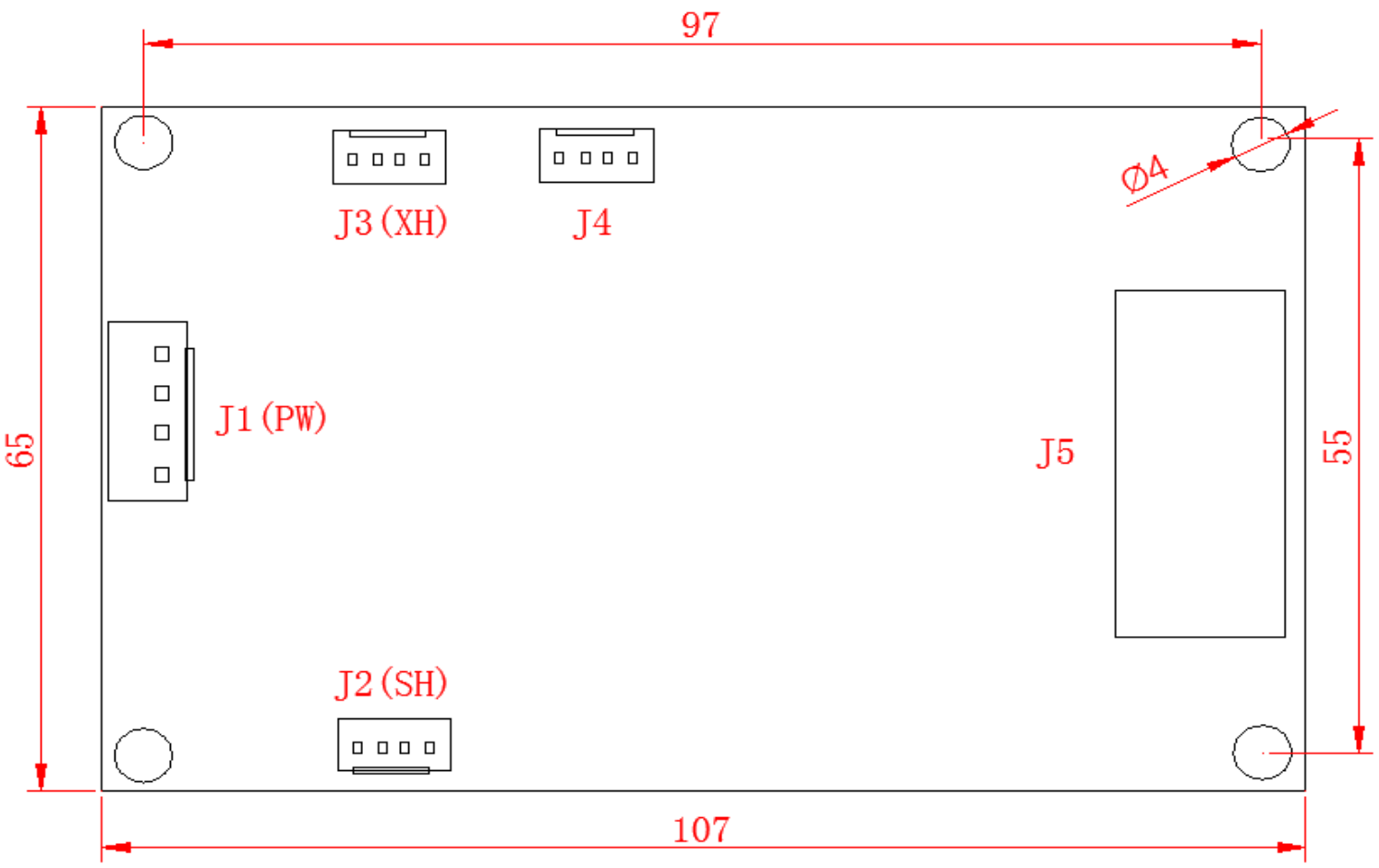
Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
J1(PW)	3.96-4180°	Power &communication	24V	GND	CANH	CANL
J2(SH)	2.54-4180°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
J3(XH)	2.54-4180°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
J4	2.54-4180°	Serial input port	24V	Serial parking input(DS)	24V	Serial fire service(XF)
S1	2.54-2180°	SERIAL COMMUNICATION TERMINAL RESISTOR JUMPER	Short jumper to connect serial communication resistor.			
SZ	2.54-2180°	Address jumper setting	Refer to Appendix A.1 for details.			
AN		Address setting key	Refer to Appendix A.1 for details.			
JC、DS	2.54-2180°	Function setting jumper	Short JC and EN/DS at the same time, enter the function setting mode. Refer to Appendix B.5 for details.			

J5(OC output) 2*10P plug-in unit	J5-1	+24V Output	J5-11	Up run
	J5-2	+24V Output Ground	J5-12	Down run
	J5-3	Floor display: Binary bit7|B CD code High bit 3|Graycode bit 7	J5-13	Running
	J5-4	Floor display: Binary bit 6|BCD code High bit 2|Graycode bit 6	J5-14	Overload
	J5-5	Floor display: Binary bit 5|BCD code High bit 1|Graycode bit 5	J5-15	Full load
	J5-6	Floor display: Binary bit 4|BCD code High bit 0|Graycode bit 4	J5-16	Fire Service
	J5-7	Floor display: Binary bit 3|BCD code Low bit 3|Graycode bit 3	J5-17	Inspection
	J5-8	Floor display: Binary bit 2|BCD code Low bit 2|Graycode bit 2	J5-18	Parking
	J5-9	Floor display: Binary bit 1|BCD code Low bit 1|Graycode bit 1	J5-19	User
	J5-10	Floor display: Binary bit 0|BCD code Low bit 0|Graycode bit 0	J5-20	Arrive Output
	Note: The wirings of J5 port should be carried out according to this list and J5 sequence number diagram. Do not refer the labels on the plug.			

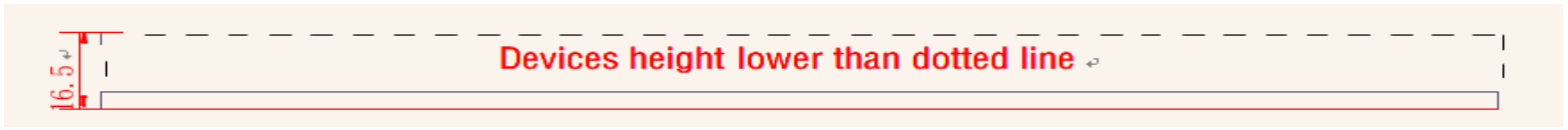
Terminal connection diagram

J2	J3	J4
		

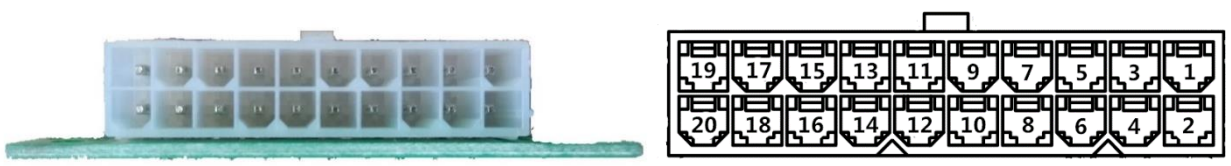
BL2000-HXJ-V9 Dimensional Drawing



Dimensional Drawing of the front



Dimensional Drawing of side



J5 sequence number diagram

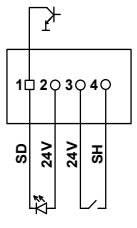
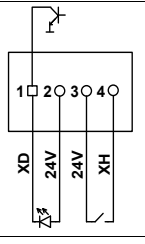
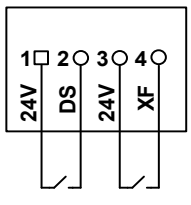
Model	BL2000-HXK-V9	Order Information: Conventional supply cycle
Production Function	Calling board of Group control	
DIMENSIONS OF PCB	65mm*172mm*20mm	
Dimensions of Installation Baseboard	145mm*202mm*30mm	

Terminal definition and function description

Terminal	Terminal specifications	Function	Pin definition			
			1	2	3	4
J1(PW)	3.96-4180°	Power &communication	24V	24V	CANH	CANL
J2(SH)	2.54-4180°	Up call port	Up call answer(SD)	24V	24V	Up call input(SH)
J3(XH)	2.54-4180°	Down call port	Down call answer(XD)	24V	24V	Down call input(XH)
J4	2.54-4180°	Serial parking input	24V	Serial parking input(DS)	24V	Serial fire service(XF)
S1	2.54-2180°	Serial communication terminal resistor jumper	Short jumper to connect serial communication resistor.			
SZ	2.54-2180°	Address jumper setting	Refer to Appendix A.1 for details.			
AN		Address setting key	Refer to Appendix A.1 for details.			
JC、EN	2.54-2180°	Function setting jumper	Short JC and EN/DS at the same time, enter the function setting mode. Refer to Appendix B.5 for details.			

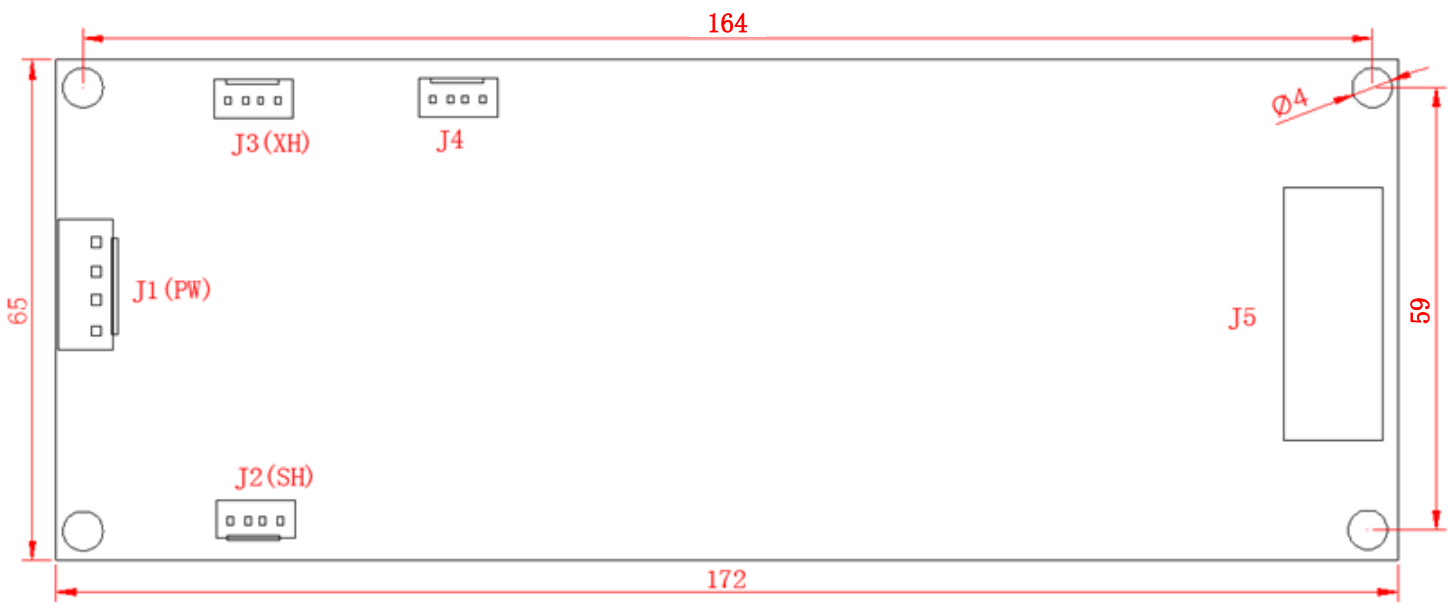
J5 (Relay output) 2*10Pplug-in unit	J5-1	+24V Output	J5-11	Fire Service
	J5-2	+24V Output Ground	J5-12	Full load/Overload
	J5-3	Floor display: Binary 6|BCD code High 2|Graycode 6	J5-13	Y8-Y9 common terminal
	J5-4	Floor display: Binary 5|BCD code High 1|Graycode 5	J5-14	Inspection
	J5-5	Floor display: Binary 4|BCD code High 0|Graycode 4	J5-15	Parking
	J5-6	Floor display: Binary 3|BCD code Low 3|Graycode 3	J5-16	Y10-Y11 common terminal
	J5-7	Floor display: Binary 2|BCD code Low 2|Graycode 2	J5-17	Running
	J5-8	Floor display: Binary 1|BCD code Low 1|Graycode 1	J5-18	Up run
	J5-9	Floor display: Binary 0|BCD code Low 0|Graycode 0	J5-19	Down run
	J5-10	Y1-Y7 common terminal	J5-20	Y12-Y14 common terminal
	Note: The wirings of J5 port should be carried out according to this list and J5 sequence number diagram. Do not refer the labels on the plug.			

Terminal connection diagram

J2	J3	J4
		

Note: The square bond pad of foot pins on terminal's back is No.1. To the other side, they are No.2, No.3 and No.4 in sequence.

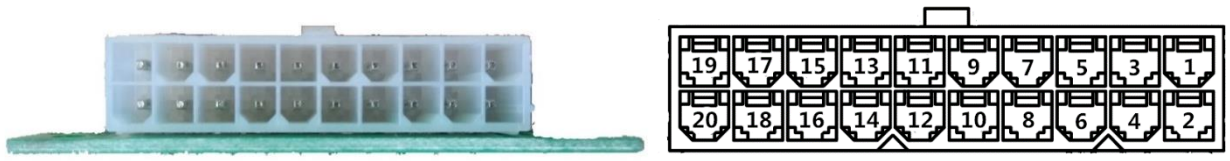
BL2000-HXK-V9 Dimensional Drawing



Dimensional Drawing of the front

Dimensional Drawing of side

Note: Refer to fig.3 in Appendix C for the dimensions of installation baseboard.



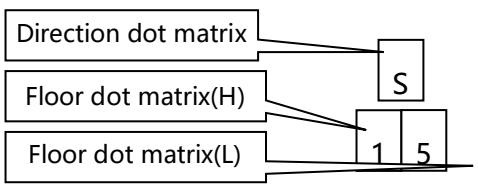
J5 sequence number diagram

Appendix A Floor Address Setting

A.1 Setting with key-press or jumper

Keep pressing setting button or short setting jumper, 2 seconds later, it will enter floor address setting interface.

After enter this setting, direction dot matrix will show “S”, and floor dot matrix will show current address setting. For example,



S means floor address setting

15 means address value.

As the call board, address corresponds to the floor number. That is to say the address of bottom floor call board should be set to “1”, others’ address increase by degrees until the top floor. The maximum address should not beyond 64. While used as car display board, the address should be set to “0”.

While there are independent controllers of rear door and front door, the address of rear door call board should be started from “33”, and so on. The maximum address can not beyond 64.

First way of setting

Keep pressing setting button, 2 seconds later, the direction dot matrix shows “S”. 3 flickers later, it enters address setting. The address increases from 1 to 64 and loop after press setting button or keep press setting button.

After setting address, release button, 2 seconds later, the address will flicker and be saved. Then the call board enters to normal mode.

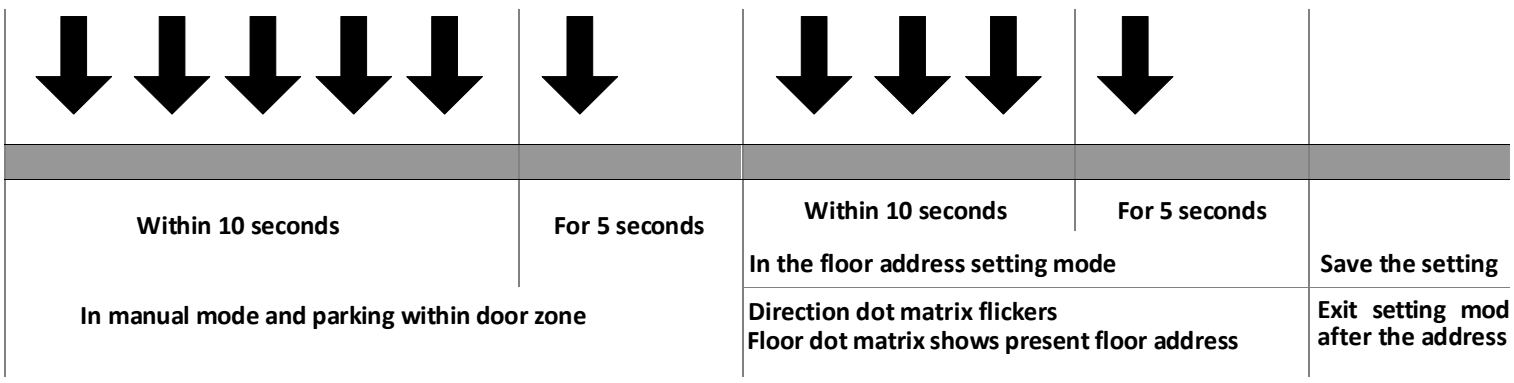
Second way of setting

Short setting jumper, 2 seconds later, the direction dot matrix shows “S”. 3 flickers later, it enters address setting. Press up call (SH) or down call (XH) button can alter the address value.

Remove setting jumper, the direction dot matrix shows “S” and the address number will be saved after 3 times flicker. Then the call board enters to normal mode.

A.2 Setting With Up-Call Button or Down-Call Button

When the elevator runs in manual mode and parking within door zone, address setting can be carried out by up call button or down call button (named setting button below). When the up call button and down call button all exist, anyone can be used as setting button. When setting button is in used, the other button works, this setting will be of no effect. The way of setting is as follow.



Make sure the elevator runs in manual mode and parking within door zone.

1. Press the setting button 5 times in 10 seconds, then press the setting button for 5 seconds, the system enters in address setting mode.

2. In the address setting mode, direction dot matrix will flicker. Floor dot matrix shows present floor address.

Present Floor Address= Present Floor Number from the Controller+1

3. Press the setting button 3 times in 10 seconds, and then press the setting button for 5 seconds. Present address will be saved. The floor address matrix flickers 3 times, and the call board enters in normal working mode

Appendix B Function setting

B.1 Dot Matrix Display Call Board Setting Method

B.1.1. Setting Method

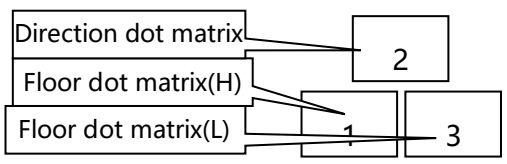
1.1.1 Enter function setting

Select a nearest call board, cut off the power (remove PW).Then insert the jumper according to the setting method of the corresponding Model call board in the text,it will enter function setting.

1.1.2 Function setting operation

After entering function setting, direction dot matrix will show “U” and “P” in turn. While showing “U”, the number in floor dot matrix is current custom number. While showing “P”, the number in floor dot matrix is program version. Press “AN” button to enter function setting. (If no AN button on the call board, the dot matrixes flicker 3 times, and then it enters the function setting mode.)

In function setting interface, direction dot matrix shows item number and floor dot matrix shows current value. For example,



2 Setting Item number, 2 means inspection display setting

1 Car display board setting, 1 means normal display in inspection mode

3 Call board setting, 3 means no direction but only character display in inspection mode

Pressing AN button will switch among dot matrix. The selected dot matrix will flicker and then you can set its value. Press up call button SH and down call button XH to set the current value. For call boards without setting buttons, press the Up Call button to select the dot matrix block. The selected dot matrix will flash and the value can be set. Press the Call button to change the current setting value.

1.1.3 Save and transmit setting

After setting complete, you need save current setting (Refer to 2.20 for details) of current call board.。

If you want to update and synchronize all call board setting, you can enter Transmit setting item in inspection mode and static status after saving (Refer to B.1.2.21 for details.) and send setting results to other call board and car display board.

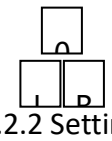
1.1.4 Exit setting

Remove test jumper “1.1”,then the call board enter to normal mode.

If removing jumper before transmitting and saving setting, all function settings will not changed.

B1.2 Setting item

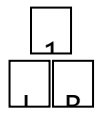
1.2.1 Setting Item 0 – Setting of Car display board LED



L: Left LED setting. R: Right LED setting. Default setting: L=1, R=2.

L, R value: 0 no display, 1 used, 2 full load, 3 overload, 4 inspection, 5 fire, 6 error, 7 running

1.2.2 Setting Item 1 – Setting of call board LED



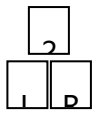
L Left LED setting. R: Right LED setting. Default setting: L=1, R=2.

L, R value: 0 no display, 1 used, 2 full load, 3 overload, 4 inspection, 5 fire, 6 error, 7 running

1.2.3 Setting Item 2 – Setting of inspection display mode

L: Car display setting. R: Call board display setting. Default setting: L=2, R=2

L, R value: 1 normal display



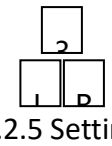
2 characters while stop, normal while running

3 no direction, only characters

4 no direction and floor

5 Have direction, display characters and floor in turn (Only when characters is 1 bit or 2 bit)

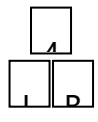
1.2.4 Setting Item 3 – Setting of inspection characters (Car display board is same with call board)



LR value: 01=JX, 02=INS. Default setting: 01

1.2.5 Setting Item 4 – Setting of parking status

L: Car display setting. R: Call board display setting. Default setting: L=1, R=2



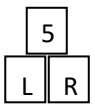
L, R value: 1 normal display, black after 30 seconds from homing completed.

2 no direction, only characters, black after 30 seconds from homing completed

3 no direction and characters

4 no direction, only characters (Only for call board)

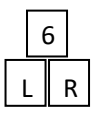
1.2.6 Setting Item 5 – Setting of parking characters (Car display board is same with call board)



L, R value: 01=ZT, 02=PARK, (

Default setting: 01

1.2.7 Setting Item 6 - Setting of full load status (Only for call board)



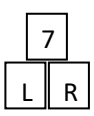
L, R value: 01 normal display

02 Display direction and characters

03 characters while stop, normal while running

04 Have direction, display characters and floor in turn (Only when character is 1 bit or 2 bit) Default setting: 01

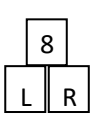
1.2.8 Setting Item 7 - Setting of full load characters (Only for calling board)



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

Default setting: 01

1.2.9 Setting Item 8 - Setting of overload status (Only for car display board)



L, R value: 01 normal display

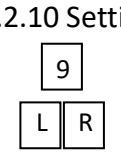
02 Display direction and characters

03 Display characters while stop, normal while running

04 Have direction, display characters and floor in turn (Only when character is 1 bit or 2 bit)

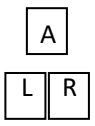
Default setting: 03

1.2.10 Setting Item 9 - Setting of overload status (Only for car display board)



L, R value: 01=CZ, 02=OL, 03=OVER LOAD. Default setting: 01

1.2.11 Setting Item A - Setting of fire initial status (Only for call board)



L, R value: 01 normal display

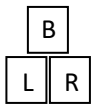
02 no direction and floor

03 same setting as fire status setting

Default setting: 02

1.2.12 Setting Item B - Setting of fire status

L: Car display setting. R: Call board display setting. Default setting: L=1, R=1

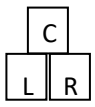


L, R value: 1 normal display

2 Display characters while stop, normal while running

3 Have direction, display characters and floor in turn (Only when character is 1 bit or 2 bit)

1.2.13 Setting Item C - Setting of fire characters (Car display board is same with call board)

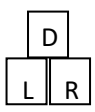


L,R value: 01=XF, 02=FR, 03=FIRE. Default setting: 01

1.2.14 Setting Item D - Setting of error display (Only for car display board)

L- Fault display setting, only valid for the control panel display panel

Error display: Error F, Door open error n, Door close error u, Door stop error o



L value: 01 normal display

02 display characters

03 Display characters while stop, normal while running

04 Display characters and floor in turn

Default setting: 03

R-Energy-saving display settings, only valid for dot matrix display panels

If the car is non-directional for more than three minutes, it will enter energy-saving mode and the dot matrix display

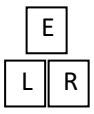
will dim.

R value: 01 Energy saving display enable

02 Energy saving display is invalid

Default setting: 0

1.2.15 Setting Item E - Setting of direction arrow



L value: 0 thin arrow

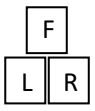
1 thick arrow

R value: 1 no roll while running

2 roll while running

Default setting: 01

1.2.16 Setting Item F - Display mode



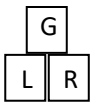
L value: 0 pull screen while floor changed, 1 vertical roll while floor changed ,2 horizontal roll while floor changed, 3 no roll while floor changed

Default setting: 0

R value: 0 no floor flicker while deceleration, 1 floor flicker while deceleration

Default setting: 0

1.2.17 Setting Item G - Setting of arrival lamp and arrival bell



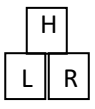
L Arrival lamp: 0 flicker

1 no flicker

R Duration time of arrival bell: (2+N*0.5) seconds

Default setting: 00

1.2.18 Setting Item H - Display setting



L: Display area setting of the third characters while three characters

While three characters, the third character can be set by custom through mainboard setting. There are 15 characters can be selected, the relation of display is as below:

Mainboard setting	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Character display while	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Character display while	A	B	C	D	E	0	1	2	3	4	5	6	7	8	9

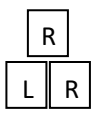
R: When only single character, setting for its position (Only for 11*7 dot matrix)

0 in the middle

1 in the right

Default setting: 00

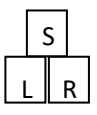
1.2.19 Setting Item R - Recover to default setting



L=5, R=5 recover to default setting, R flickers and success when L=0, R=0

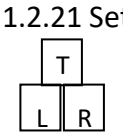
This setting only recovers current setting to default value, no save operation.

1.2.20 Setting Item S - Save setting



L=5, R=5 save setting, S flicker and success when L=0, R=0

1.2.21 Setting Item T - Save and transmit setting



L=5, R=5 save and transmit setting, totally 3 times, display the odd times with L&R while transmitting.

T flickers and success to transmit setting to other call board (include car display board) when L=0, R=0. T flickers and fail when L=1, R=1.

Note: This function must be operated in inspection mode and the elevator must stop, otherwise, other call board will not receive the settings.

B.2 Segment LCD Display Call Board Setting Method 1

2.1 Setting Method

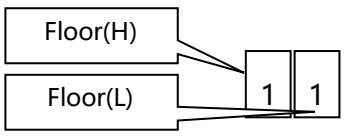
1 Enter function setting

Select a nearest call board, cut off the power (remove communication cable J1). Short the jumpers JC. Then power on, it will enter checking mode. Press up-call button and down-call button at the same time, 2 or 3 seconds later, it enters the setting mode.

2. Function setting

In setting mode, floor display-area displays current user code and program version. Following the character U, current user code is displayed. Following

the character P, it is current program version. Above contents flicker 3 times, and then system enters the function setting mode. Left figure displays setting item code, and right figure displays current function number.



1 Setting item code, that means call display setting in parking period.

1 means system displays normally in parking period. Arrived at the base floor 30 second later, system displays offPress up-call button to change setting item, and press down-call button to change the current set value.

3. Save and transmit set value

To finish this function setting, current setting should be saved. (Refer to **B2.2.15** for details)

If the whole call system update is needed, enters ***transmit set*** item(Refer to **B.2.2.16** for details) after saving operation and the car is in INSP and parking status, and transmit the setting to other call boards and COP display boards.

4. Exit the Setting Mode

Pull out the JC jumper, and system enters normal work mode.

If pull out the jumper before transmitting and saving parameters operations, all the function parameters will not be changed.

B.2.2 Setting Items

B.2.2.1 Setting Item 0 - COP display Parking Status Setting

0	N

N Value: 1 Normal display. Arrive at the base floor 30 seconds later, display off.
2 Not display direction and floor, but display ⊖ sign, and arrive at base floor 30 seconds later, display off.
3 Display off.

Default: 1

B.2.2.2 Setting Item 1 - Call Board display Parking Status Setting

1	N

N Value: 1 Normal display. Arrive at base floor 30 seconds later, display off.
2 Not display direction and floor, but display ⊖ sign, and arrive at base floor 30 seconds later, display off.
3 Display off.
4 Not display direction and floor, but display ⊖ sign.
Default: 2

B.2.2.3 Setting Item 2 - Setting of error display (Only for COP display board)

2	N

N Value: 1 Normal display.
2 Display characters.
3 Display characters while stop, and display normal while running.
4 Characters and floor display in turn.

Default: 3

Error display characters: Error F, Door open error n, Door close error u, Door stop error o

B.2.2.4 Setting Item 3 - Setting of inspection characters (Car display board is same with call board)

3	N

N value: 1 Display INS while stop and normal display while running.
2 Normal-display
3 Not display direction, but display INS.
4 Not display direction and floor, but display sign.
Default setting: 2

B.2.2.5 Setting Item 4- Call Board display Inspection Status Setting

4	N

N Value: 1 Display characters INS while stop, and display normal while running.
2 Normal display
3 Not display direction, but display characters INS.
4 Not display direction and floor, but display sign.
Default setting: 2

B.2.2.6 Setting Item 5 - Fire Initial State Display Setting (Only for call board)

5	N

N Value: 1 Normal display
2 Not display direction and floor
3 The same to Fire setting
Default setting: :2

B.2.2.7 Setting Item 6 - Fire Status Display Setting for COP board

6	N

N Value: 1 Normal display

2 Display characters FIRE while stop, and display normal while running.

3 Not display direction, but display characters FIRE

Default: 1

B.2.2.8 Setting Item 7 - Fire Status Display Setting for call board

N Value: 1 Normal display

7	N

2 Display characters FIRE while stop, and display normal while running.

3 Not display direction, but display characters FIRE

Default: 1

B.2.2.9 Setting Item 8 - Display Mode

N Value: 0 Not flicker at speed-change floor

8	N

1 Flicker at speed-change floor

Default: 0

B.2.2.10 Setting Item 9 - Arrival Lamp Setting

N Value: 0-Flicker

9	N

1-Not flicker

Default: 0

B.2.2.11 Setting Item A - Arrival Gong Setting

N Value: 0-7

A	N

Arrival signal last time: (2+N*0.5) seconds

Default: 0

B.2.2.12 Setting Item B - The third characters display setting for three characters display

B	N

While three characters, the third character can be set by custom through mainboard setting. There are 15 characters can be selected, the relation of display is as below:

Mainboard setting	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Character display while L=0	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Character display while L=1	A	B	C	D	E	0	1	2	3	4	5	6	7	8	9

Default: 0

B.2.2.13 Setting Item C - Elevator call button background light setting

N Value: 0- No background light

1- background light on

Default: 0

C	N

B.2.2.14 Setting Item T - Runtime direction flashing setting

N Value: 0- Direction does not flickers when running

1- Direction does flickers when running

T	N

Default:1

B2.2.15 Setting Item E –Energy saving function setting

After the energy-saving function is turned on, the backlight of the elevator call plate will go out after the elevator has no orientation for three minutes, and the system will enter the energy-saving mode. The backlight will turn on again after the elevator has an orientation, and the system will exit the energy-saving mode.

E	N

N value： 0 Energy saving function disabled

1 Energy saving function on

Default: 0

2.16 Setting Item S –Save Setting

S	N

Press and hold the call button for 3 seconds, then N starts flickers and changes from 3 to 0, indicating that the current settings have been saved successfully.。

2.17 Setting Item T –Save and send setting

T	N

Press and hold the down call button for 3 seconds to start sending the settings, and send three times in total. During

the sending process, N shows the remaining number of times to send.

N flickers and changes from 3 to 0, indicating that the settings have been sent to other elevator call boards in the system, otherwise it means that the sending has failed.

Note: This function must be performed when the elevator is under maintenance and stopped, otherwise other elevator call boards will not receive parameters.

B.3 Segment LCD Display Call Board Setting Method 2

B.3.1 Setting Method

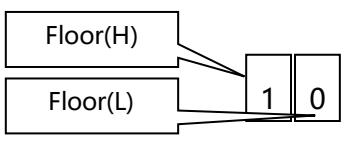
1 Enter function setting

Select a nearest call board, cut off the power (remove communication cable J1). Short the jumpers JC. Then power on, it will enter checking mode. Press up-call button and down-call button at the same time, 2 or 3 seconds later, it enters the setting mode.

2. Function setting

In setting mode, floor display-area displays current user code and program version. Following the character U, current user code is displayed. Following the character P, it is current program version. Above contents flicker 3 times, and then system enters the function setting mode.

In function setting mode, left figure displays setting item code, and right figure displays current function number.



1-Setting item code. That means English car status display

0- means English car status not display

Press up-call button to change setting item, and press down-call button to change the current set value.

3. Save and transmit set value

To finish this function setting, current setting should be saved. (Refer to **B.3.2.10** for details)

If the whole call system update is needed, enters ***transmit set*** item(Refer to **B.3.2.11** for details) after saving operation and the car is in INSP and parking status, and transmit the setting to other call boards and COP display boards.

4. Exit the Setting Mode

Pull out the JC jumper, and system enters normal work mode.

If pull out the jumper before transmitting and saving parameters operations, all the function parameters will not be changed.

B.3.2. Setting Items

B.3.2.1 Setting Item 0 - Chinese Car Status (Full load, overload, inspection, fire) Display Setting

0	N

N Value: 0 Not display

≠0 Normal display

Default: 1

B.3.2.2 Setting Item 1 – English Car Status (Full load, overload, inspection, fire) Display Setting

1	N

N Value: 0 Not display

≠0 Normal display

Default: 0

B.3.2.3 Setting Item 2 - Parking Status Display Setting for COP board

2	N

N Value: 1 Normal display, and arrive at base floor 30 seconds later display off.

2 Not display direction, but display characters, and arrive at base floor 30 seconds later display off.

3 Not display direction and characters.

Default: 1

B.3.2.4 Setting Item 3 - Parking Status Display Setting for Call board

3	N

N Value: 1 Normal display, and arrive at base floor 30 seconds later display off.

2 Not display direction, but display characters, and arrive at base floor 30 seconds later display off.

3 Not display direction and characters.

4 Not display direction, but display characters.

Default: 2

B.3.2.5 Setting Item 4 - Parking Status Display Characters Setting (For call board and COP board, the characters are the same)

4	N

N Value: 1=ZT Default: 1

B.3.2.6 Setting Item 5 - Error Display Setting (Only for COP board)

5	N

N Value: 1 Normal display

2 Display characters

3 Display characters while stop, normal display while running.

4 Display characters and floor in turn.

Default: 3

Display Error： Error F, Door Open Error n, Door Close Error u, Door Stop Error o

B.3.2.7 Setting Item 6 - Display Mode

6	N

N Value: 0 Not flicker at speed-change floor

1 Flicker at speed-change floor

Default: 0

B.3.2.8 Setting Item 7 - Arrival Lamp Setting

7	N

N Value: 0-Flicker

1-Not flicker

Default: 0

B.3.2.9 Setting Item 8 - Arrival Gong Setting

8	N

N Value: 0-7

Arrival signal last time: (2+N*0.5) seconds

Default: 0

B.3.2.10 Setting Item 9 - Save Setting

9	N

Press down-call button, 3 seconds later, N start to flicker, and N changes from 3 to 0 which means saving current setting success.

B.3.2.11 Setting Item T – Save and Transmit Setting

T	N

Press down-call button for 3 seconds, transmission starts. Transmission will be carried out for 3 timers, and N shows the residual number of transmissions in processes. N Flickers and changes from 3 to 0 which means transmit to other call-boards successfully or else failed.

Note: This function must be operated in inspection mode and the elevator must stop, otherwise, other call board will not receive the settings.

B.4 Group Control Call Board Setting Method

B.4.1 Setting Method

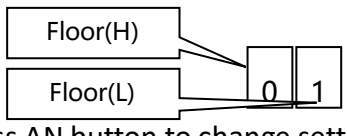
1 Enter function setting

Select a nearest call board, cut off the power (remove communication cable J1). Short the jumper JC and the jumper EN (DS). Then power on, it will enter setting mode.

2. Function setting

In setting mode, display-area displays current user code and program version. Following the character U, current user code is displayed. Following the character P, it is current program version. Pressing AN button or up-call / down-call button, system enters the function setting mode.

In function setting mode, left figure displays setting item code, and right figure displays current function number. For example:



0 Setting item code. That means arrival gong time setting.

1 Arrival gong time is set to 1, which means arrival signal last for 2 seconds.

Press AN button to change setting item, and press up-call button or down-call button to change the current set value.

3. Save and transmit set value

To finish this function setting, current setting should be saved. (Refer to **B.4.2.6** for details)

If the whole call system update is needed, enters ***transmit set*** item(Refer to **B.4.2.7** for details) after saving operation and the car is in INSP and parking status, and transmit the setting to other call boards and COP display boards.

4. Exit the Setting Mode

Pull out the JC and EN (DS) jumper, the call board enters normal work mode.

If pull out the jumpers before transmitting and saving parameters operations, all the function parameters will not be changed.

B.4.2. Setting Items

B.4.2.1 Setting Item 0 - Arrival Gong Time Setting

0 N

Arrival gong signal last time: (2+N*0.5) seconds

N Value: 0-8

Default: 0

B.4.2.2 Setting Item 1 - Arrival Lamp Pulse Interval Setting

1 N

Arrival Lamp Pulse Interval: (1+N)*0.5 seconds

N Value: 0-8

Default: 0

B.4.2.3 Setting Item 2 - Arrival Lamp Mode Setting

2 N

N Value: 0 Arrival lamp output flickeringly according to pulse interval.

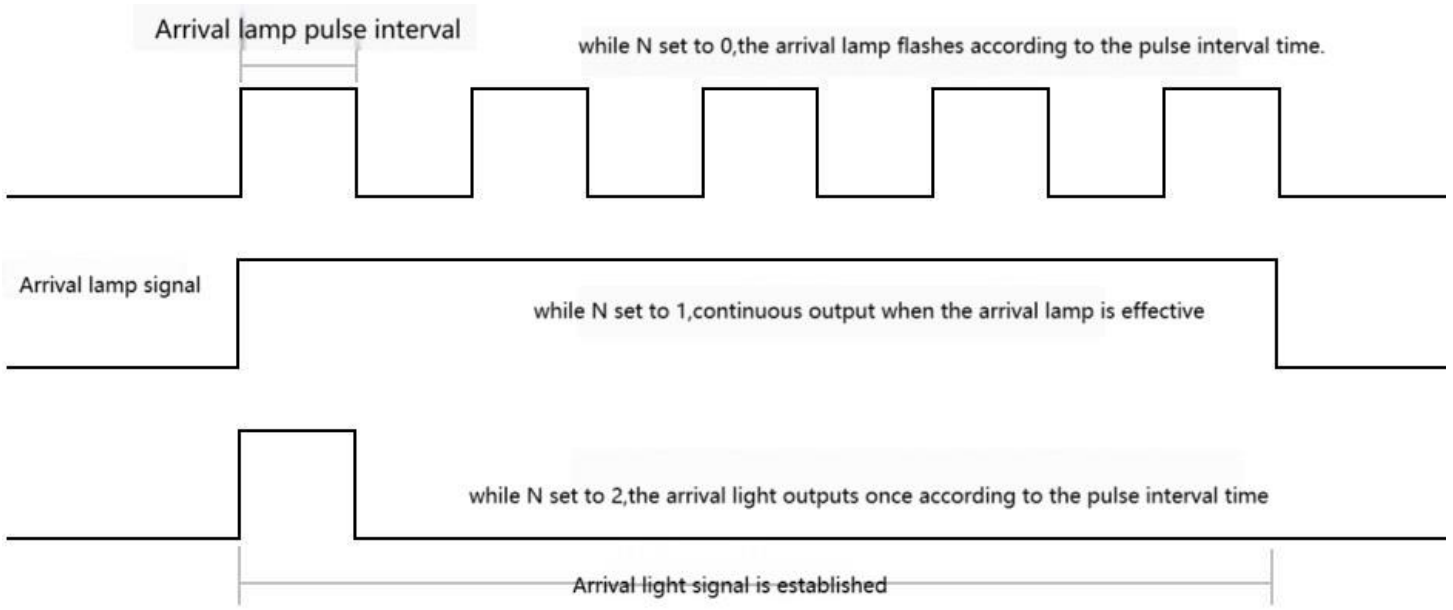
1 Continuous output while arrival lamp effective.

2 Arrival lamp output once according to pulse interval.[Note]

Default: 0

Note: While N is set to 0 or 1, the requirement of arrival lamp effective is a speed-change signal occurs in current door zone or door is open in current door zone.

While N is set to 2, the requirement of arrival lamp effective is a speed-change signal occurs in current door zone



B.4.2.4 Setting Item 3 –Call button background lamp setting

3 N

N Value： 0 no background lamp

1 with background lamp

Default: 0

B.4.2.5 Setting Item 4 –Arrival bell output distinguishes between up and down setting

4 N

N 取值： 0 Arrival bell output does not distinguish between up and down

1-8 Arrival bell output is divided into up and down, up to station ringing once, down to station ringing twice, down to station clock two output time interval (N*0.5) seconds

Default: 0

B.4.2.6 Setting Item 5- Save Setting

3 N

Press up-call button and down-call button at the same time, 3 seconds later, N start to flicker, and N changes from 3 to 0 which means saving current setting success.

B.4.2.7 Setting Item 6 - Save and Transmit Setting

4 N

Press up-call button and down-call button at the same time, 3 seconds later, transmission starts. Transmission will be carried out for 3 timers, and N shows the residual number of transmissions in processes. N Flickers and changes from 3 to 0 which means transmit to other call-boards successfully or else failed.

Note 1: This function must be operated in manual mode and the elevator must stop, otherwise, other group call board will not receive the settings.

Note 2: If there is another model call board in the same CAN communication net, with the condition which is not fulfilled Note 1, it's possible to change other model call board parameters setting.

B.5 Port Transformer Board Setting Method

B.5.1 Setting Method

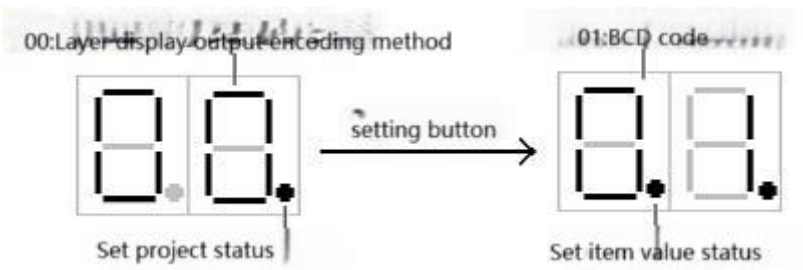
1 Enter function setting

Select a nearest call board, cut off the power (remove communication cable J1). Short the jumper JC and the jumper EN (DS). Then power on, it will enter setting mode.

2. Function setting

After entering setting mode, 7-segment-code LED displays current user code and program version. Following the character U, current user code is displayed. Following the character P, it is current program version. Pressing AN button or up-call / down-call button, system enters the function setting mode.

In function setting mode, decimal points on 7-segment-code LEDs indicate tow status, the setting items or setting values. It is in selecting setting item mode while the decimal point on right 7-segment-code LED lightening on. It is in setting item value mode while the decimal points on left and right 7-segment-code LEDs all lightening on. Examples are as below.



Press setting button to switch the tow modes- Setting Items or Setting Item Value, and press up-call button or down-call button to change the current set value.

3. Exit the Display Setting

Pull out the JC and EN (DS) jumper, the transformer board enters normal work mode.

If pull out the jumpers before transmitting and saving parameters operations, all the function parameters will not be changed.

B.5.2 Setting Items

B.5.2.1 Setting Item 00 - Floor-display code mode

Value: 0 - Binary Code

1 - Binary-Coded Decimal (BCD)

2 - Binary Gray Code

Default: 0

B.5.2.2 Setting Item 01 - Floor-display output mode

Value: 0 - Physical floor + Offset output

1 - Main control board floor-display setting+ Offset output

2 - Physical floor + Code table (Display conversion table provided by manufacturer) output

3 - Main control board floor-display setting + Code table (Display conversion table provided by manufacturer) output

Default: 0

Physical floor: For the N floor lift, 0 means the bottom floor, 1 means the second bottom floor, and N-1 means top floor.

Offset: digit 0 - 9, can be changed by configuration.

Example 1: Assuming that offset is 1. Lift stops at the 2 floor (There are 2 floors of basement), the current physical floor is 3, and the lift displays floor 2. Output in the physical floor plus offset way, the output is 3+1=4.

Example 2: Assuming that offset is 1. Lift stops at the 2 floor (There are 2 floors of basement), the current physical floor is 3, and the lift displays floor 2. Output in the main control board floor-display setting plus offset way, the output is 2+1=3. In this way, the characters main control board set only can be digit 0 to 9, and 3-bit display is not supported.

Example 3: Lift stops at basement 1 (There are 2 floors of basement), the current physical floor is 1, and the lift displays B1. (Corresponding to B1, the display code is 60.) In code table, TB (1) =60. Output in the physical floor plus code table way, the output is 60.

Example 4: Lift stops at floor 13, the lift displays floor 12A. (Corresponding to 12A, the display code is 86.). Output in the physical floor plus code table way, the output is 86.

B.5.2.3 Setting Item 02 - Floor-display output offset

Value: 0-9. Default: 1

B.5.2.4 Setting Item 03- Up arrival and down arrival output setting

Value: 0- Output in conformity to 0.5 second pulse interval when lift arrival.

1 - Arrival signal continuous output

Default: 0

B.5.2.5 Setting Item 04- save setting

In the item value setting mode, press up-call button and down-call button simultaneously. 2 seconds later, the 7-segment-code LEDs start to flicker. Flicker for 3 times means save success.

B.5.2.6 Setting Item N- Port signal output setting

N is for 11-20 representing J5-11 to J5-20.

Value: 0-22 corresponding to the output in the following table.

Port Signal Output Code Table

Code	Output signal	Code	Output signal	
00	Parking	12	Door interlock off	
01	Inspection	13	Door open	
02	Fire	14	Door close	
03	User	15	Up	
04	Manual	16	Down	
05	Auto	17	Run	
06	Error	18	Stop(No run signal)	
07	Overload	19	Full load*/ Overload**： *For call display board, **For COP display board	
08	Full load	20	Arrival output: speed-change signal come, output for 2 seconds Current floor output for call board display, arrival gong output for COP board	
09	Safeloop(Emerqency stop)			
10	Fire and stop at fire floor	21	Up arrival output	Output requirements are speed-change signal in current floor door zone or door open at current floor, and direction signal comes.
11	Door interlock	22	Down arrival output	

B.6 Segment display call board setting method

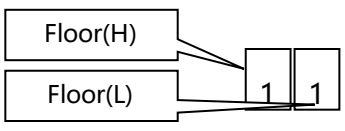
B.6.1 Setting Method

1 Enter function setting

Cut off the power(remove communication cable),short the jumper SZ,then power on , it will enter checking mode

2. Function setting

In setting mode, Left figure displays setting item code, and right figure displays current **function num**ber.for example:



Left 1 Setting item code, that means call display setting in parking period.

Right 1 means system displays normally in parking period. Arrived at the base floor 30 seconds later, system displays off.

Press up-call button to change setting item, and press down-call button to change the current set value.

3. Save and transmit set value

To finish this function setting, current setting should be saved. (Refer to **B2.2.13** for details)

If the whole call system update is needed, enters ***transmit set*** item(Refer to **B.2.2.14** for details) after saving operation and the car is in INSP and parking status, and transmit the setting to other call boards and COP display boards.

4. Exit the Setting Mode

Pull out the JC jumper, and system enters normal work mode.

If pull out the jumper before transmitting and saving parameters operations, all the function parameters will not be changed.

B.6.2 Setting Items

B.6.2.1 Setting Item 0 - COP display Parking Status Setting

N Value: 1 Normal display direction and floor, display⊖sign. After 30 seconds later, display off

2Not display direction and floor, display⊖sign. After 30 seconds later, display off

3 Display off.

Default: 1

B.6.2.2 Setting Item 1 - Call Board display Parking Status Setting

N Value: 1 Normal display direction and floor, display⊖sign. After 30 seconds later, display off

2Not display direction and floor, display⊖sign. After 30 seconds later, display off

3 Display off.

4 Not display direction and floor, but display ⊖ sign.

Default: 2

B.6.2.3 Setting Item 2 - Setting of error display (Only for COP display board)

N Value: 1 Normal display direction and floor, display⊖sign.

2 Display characters; display⊖sign

3 Display characters while stop, and display normal while running. ; display⊖sign

4 Characters and floor display in turn.

Default: 3

Error display characters: Error F, Door open error n, Door close error u, Door stop error o

B.6.2.4 Setting Item 3–Car Display Board Inspection Status Setting

N Value:1 Not display direction and floor, display sign.

2 Normal display direction and floor, display sign

Default setting: 2

B.6.2.5 Setting Item 4- Call Board Display Board Inspection Status Setting

N Value:1 Not display direction and floor, display sign.

2 Normal display direction and floor, display sign

Default setting: 2

B.6.2.6 Setting Item 5 - Fire Initial State Display Setting (Only for call board)

N Value: 1 Normal display

2 Not display direction and floor

3 The same to Fire setting

Default setting: :2

B.6.2.7 Setting Item 6 - Fire Status Display Setting for COP board

N Value:1 Normal display direction and floor, display sign

2 Not display direction and floor, display sign.

Default setting: 1

B.6.2.8 Setting Item 7 - Fire Status Display Setting for call board

N Value:1 Normal display direction and floor, display sign

2 Not display direction and floor, display sign.

Default setting: 1

B.6.2.9 Setting Item 8 - Display Mode

N Value: 0 Not flicker at speed-change floor

1 Flicker at speed-change floor

Default: 0

B.6.2.10 Setting Item 9 - Arrival Lamp Setting（BL2000-HEH-N14 not applicable）

N Value: 0-Flicker

1-Not flicker

Default: 0

B.6.2.11 Setting Item A - Arrival Gong Setting（BL2000-HEH-N14 not applicable）

N Value: 0-7

Arrival signal last time: (2+N*0.5) seconds

Default: 0

B.6.2.12 Setting Item B - The third characters display setting for three characters display

While three characters, the third character can be set by custom through mainboard setting. There are 15 characters can be selected,the relation of of display is as below:

Mainboard setting	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Character display while L=0	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Character display while L=1	A	B	C	D	E	0	1	2	3	4	5	6	7	8	9

Default: 0

B.6.2.13 Setting Item C - Elevator call button background light setting

N Value: 0- No background light

1- background light on

Default: 0

B.6.2.14 Setting Item T - Runtime direction flashing setting

N Value: 0- Direction does not flickers when running

1- Direction does flickers when running

Default:**1**

B6.2.15 Setting Item E - Only the ones digit display, whether to display it in the center

N Value: 0-IN center

1 digit display

Default:1

Note :When set to center display, some English letters do not support center display。

B6.2.16 Setting Item S –Save Setting

Press and hold the call button for 3 seconds, then N starts flickers and changes from 3 to 0, indicating that the current settings have been saved successfully.

B.6.2.17 Setting Item T –Save and send setting

Press and hold the down call button for 3 seconds to start sending the settings, and send three times in total. During the sending process, N shows the remaining number of times to send.

N flickers and changes from 3 to 0, indicating that the settings have been sent to other elevator call boards in the system, otherwise it means that the sending has failed.

Note: This function must be performed when the elevator is under maintenance and stopped, otherwise other elevator call boards will not receive parameters.

B.7 Segment display board Setting Method

B.7.1 Setting Method

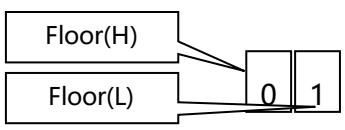
1 Enter function setting

Cut off the power(remove communication cable),short the jumper SZ,then power on , it will enter checking mode

2. Function setting

After setting the function, the current customer number and program number are displayed. When U is displayed, the following content is the current customer number, and when P is displayed, the following content is the current program number. After flicked 3 times, it enters the function setting.

In setting mode, Left figure displays setting item code, and right figure displays current **function num**ber.for example:



Left 0 Setting item code, that means call display setting in parking period

Right 1 means system displays normally in parking period. Arrived at the base floor 30 seconds later, system displays off.

Press up-call button to change setting item, and press down-call button to change the current set value.

3. Save and transmit set value

To finish this function setting, current setting should be saved. (Refer to **B7.2.9** for details)

4. Exit the Setting Mode

Power off ,and then pull out the JC&SZ jumper, then power on, and system enters normal work mode

If pull out the jumper before transmitting and saving parameters operations, all the function parameters will not be changed.

B.7.2 Setting Items

B.7.2.1 Setting Item 0 - COP display Parking Status Setting

N Value: 1 Normal display direction and floor, display⊖sign. After 30 seconds later, display off

2Not display direction and floor, display⊖sign. After 30 seconds later, display off

3 Display off.

Default: 1

B.7.2.2 Setting Item 1 - Setting of error display

N Value: 1 Normal display direction and floor, display⊖sign.

2 Display characters; display⊖sign

3 Display characters while stop, and display normal while running. ; display⊖sign

4 Characters and floor display in turn, display⊖sign

Default: 3

Error display characters: Error F, Door open error n, Door close error u, Door stop error o

B.7.2.3 Setting Item 2–Car Display Board Inspection Status Setting

N Value:1 Not display direction and floor, display sign.

2 Normal display direction and floor, display sign

Default setting: 2

B.7.2.4Setting Item 3 - Fire Status Display Setting

N Value:1 Normal display direction and floor, display sign

2 Not display direction and floor, display sign.

Default setting: 1

B.7.2.5 Setting Item 4 - Display Mode

N Value: 0 Not flicker at speed-change floor

1 Flicker at speed-change floor

Default: 0

B.7.2.6 Setting Item 5 - The third characters display setting for three characters display

While three characters, the third character can be set by custom through mainboard setting. There are 15 characters can be selected,the relation of of display is as below:

Mainboard setting	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Character display while L=0	A	B	C	D	E	F	G	H	I	J	无	L	无	无	O
Character display while L=1	A	B	C	D	E	0	1	2	3	4	5	6	7	8	9

Default: 0

B.7.2.7Setting Item 6 - Runtime direction flashing setting

N Value: 0- Direction does not flickers when running

1- Direction does flickers when running

Default:**1**

B7.2.8 Setting Item 7 - Only the ones digit display, whether to display it in the center

N Value: 0-IN center

1 digit display

Default:1

Note :When set to center display, some English letters do not support center display.

B7.2.9 Setting Item 8 –Save Setting

Press and hold the call button for 3 seconds, then N starts flickers and changes from 3 to 0, indicating that the current settings have been saved successfully.

Appendix C Dimensions of installation baseboard

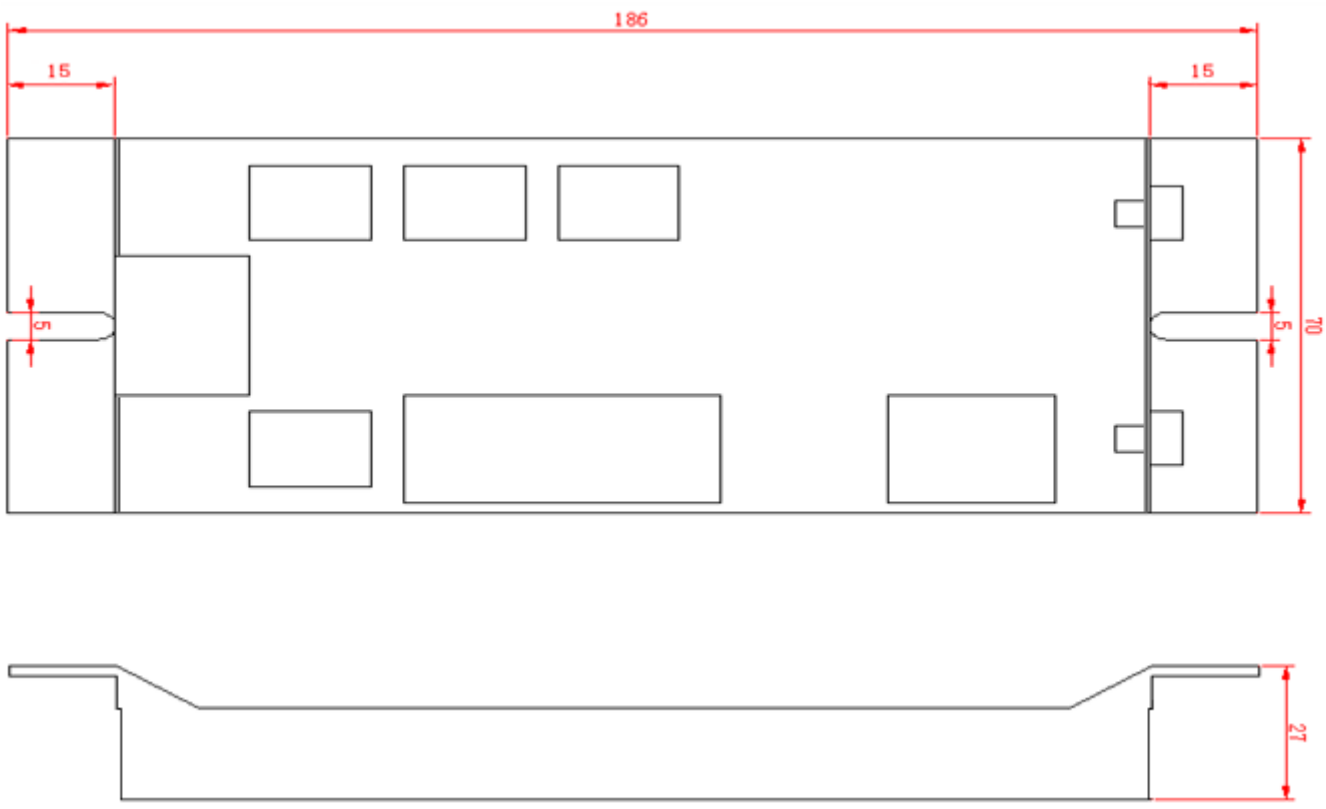


Fig1

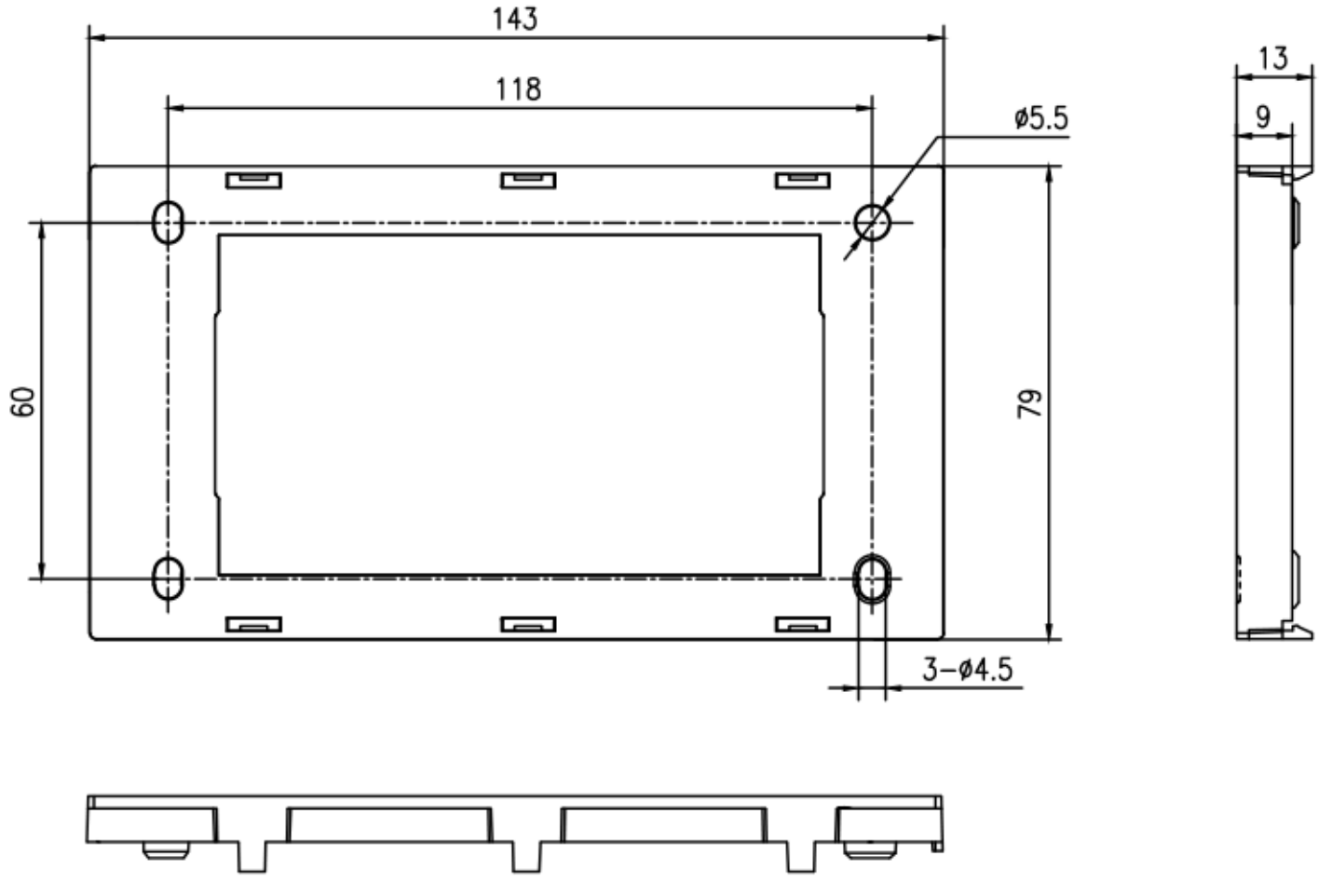


Fig2

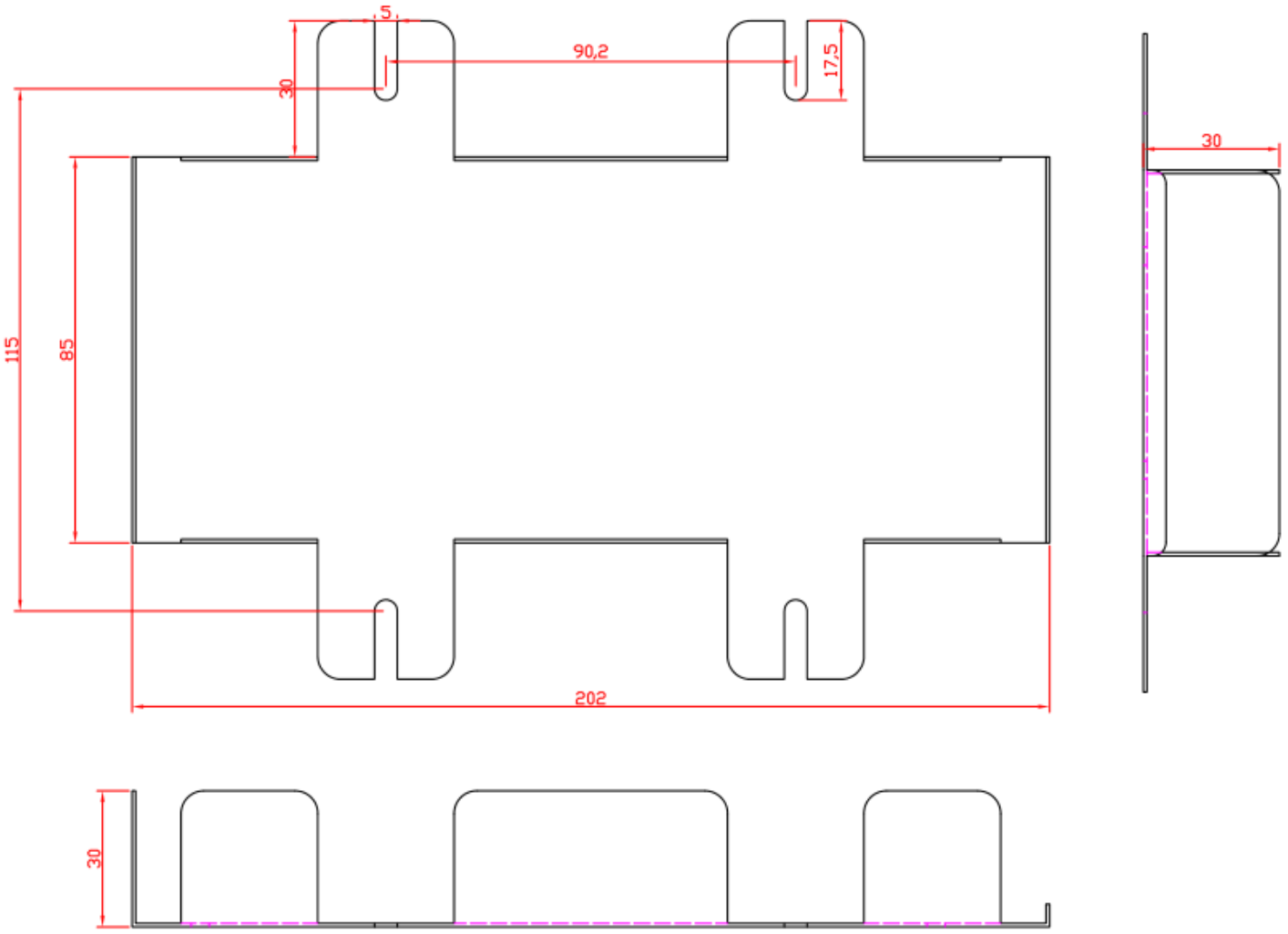


Fig 3