

Serial No	the definition of 1# instruction controller pin	the definition of 2# instruction controller pin	...	the definition of 8# instruction controller pin
JP1	Connect 1 st floor instruction button	Connect 9th floor instruction button	...	Connect 57th floor instruction button
JP2	Connect 2nd floor instruction button	Connect 10th floor instruction button	...	Connect 58 th floor instruction button
JP3	Connect 3rd floor instruction button	Connect 11th floor instruction button	...	Connect 59 th floor instruction button
JP4	Connect 4th floor instruction button	Connect 12th floor instruction button	...	Connect 60th floor instruction button
JP5	Connect 5th floor instruction button	Connect 13th floor instruction button	...	Connect 61st floor instruction button
JP6	Connect 6th floor instruction button	Connect 14th floor instruction button	...	Connect 62nd floor instruction button
JP7	Connect 7th floor instruction button	Connect 15th floor instruction button	...	Connect 63rd floor instruction button
JP8	Connect 8th floor instruction button	Connect 16th floor instruction button	...	Connect 64th floor instruction button

Note: instruction button and indicator lamp connection.

Pin 1 and 2 connect respectively to the “-” and “+” terminal of power supply of indicator. And pin 3 and 4 connect to the instruction button terminal.

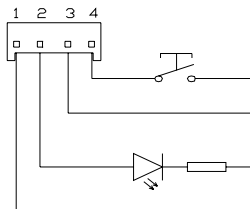


Fig 6.10 instruction button and indicator lamp wiring diagram

6.5 call & display control board

6.5.1 call & display control board SM-04-VRFS

SM-04-VRF outside view and installation dimension

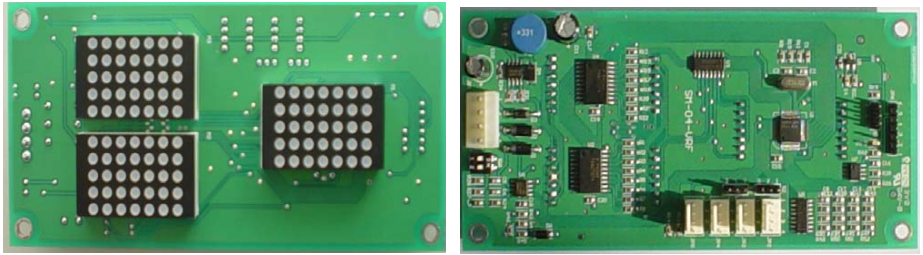


Fig 6.11 SM-04-VRF outside view

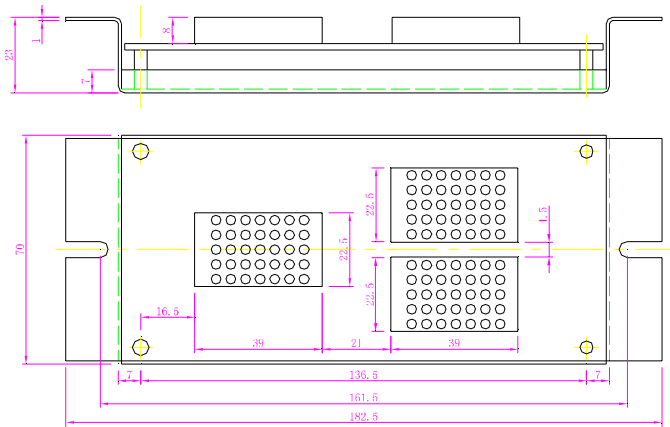


Fig 6.12 SM-04-VRF installation dimension

☆SM-04-VRF plug-in specification and port definition

Table 6.9 SM-04-VRF plug-in specification and port definition

Serial No	description	remark
JP1	Serial communication port. in which pin 1 as TXV+, pin 2 as TXV-, pin 3 as TXA+, pin 4 as TXA-	CH3.96-4
JP2	upward call button port (pin 1,2 as button lamp indicator, 1 as “-”, 2 as “+”, pin 3 and 4 as button input)	CH2510-4
JP3	downward call button port (pin 1,2 as button lamp indicator, 1 as “-”, 2 as “+”, pin 3 and 4 as button input)	CH2510-4
JP4	stop indicator(hall)/overload output (car) and elevator lock input port (pin 1,2 as button lamp indicator, 1 as “-”, 2 as “+”, pin 3 and 4 as normal open contact input of elevator lock switch)	CH2510-4
JP5	Full-load indicator(hall)/firefighting output (car) (pin 1,2 as button lamp indicator, 1 as “-”, 2 as “+”, pin 3 and 4 as standby input)	CH2510-4
JP6	program burning slot/RS232 communication port	

S1	Plug in jumper to set the address code of the display board and remove the jumper after the setting complete	
S2	Bridge S2.1 and S2.2 and use JP2 as the button of three wire system, bridge S2.2 and S2.3 (or do not bridge) as the button of four wire system	
S3	Bridge S3.1 and S3.2 and use JP3 as button of three-wire system, bridge S3.2 AND s3.3 (or do not bridge) as button of four wire system	
SW1	Resistor jumper of serial communication terminal and shortening mean the connection to the built-in 120 ohm resistor	

6.5.2 Call & display control board SM-04-HSC

Outside View & Mounting Dimensions of SM-04-HSC

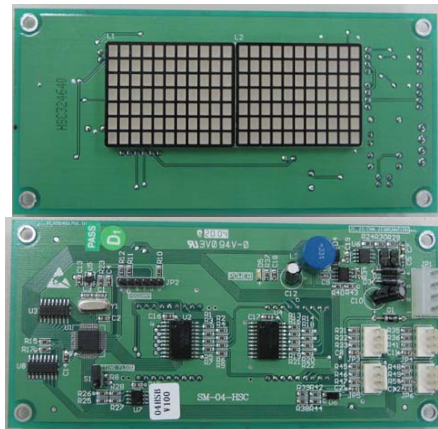


Fig. 6.17 Outside View of SM-04-HSC

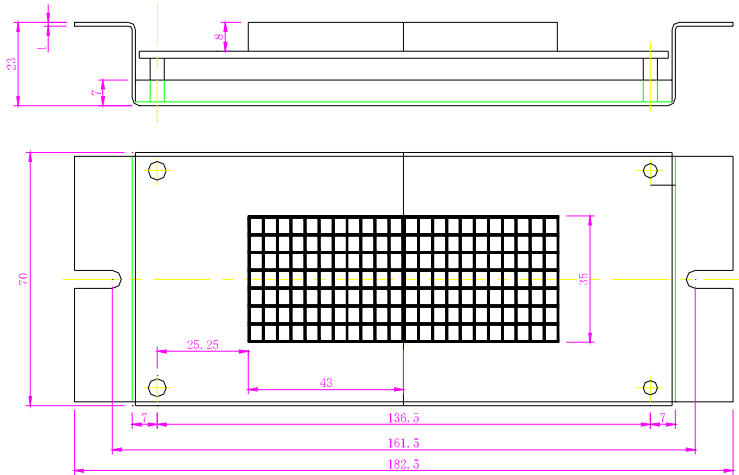


Fig. 6.18 Mounting Dimensions of SM-04-HSC

☆ Terminal Definition and Plug-in Specification on SM-04-HSC

Serial	Descriptions	Remarks
JP1	Serial port, of which Pin 1 for TXV+, Pin 2 for TXV-, Pin 3 for TXA+ and Pin 4 for TXA- respectively.	CH3.96-4
JP2	RS232 port / program burn recording slot.	
JP3	Up-call terminals, of which Pin 1- and Pin 2+ for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4
JP4	Down-call terminals, of which Pin 1- and Pin 2+ for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4
JP5	Stop indicator (Landing)/Over load output(In-Car) and lockout input terminals, of which Pin 1- and Pin 2+; Pin 3 and Pin 4 for the normal open contact input of the lockout switch.	CH2510-4
JP6	full-load indicator (Landing)/fire indicator (In-Car), of which Pin 1- and Pin 2+ for light indicator; Pin 3 and Pin 4 for stand-by.	CH2510-4
S1	Set the address codes of the display Board with the jumper on, after that the jumper MUST BE REMOVED.	
J1/J2	Resistor jumper for serial communication terminals for connecting the 120Ω built-in resistor when jumpers are put on together.	

List 6.12 Terminal Definitions and Specification of SM-04-HSC

6.5.3 Call & Display Control Board SM-04-VHL

☆ Outside View & Mounting Dimensions of SM-04-VHL

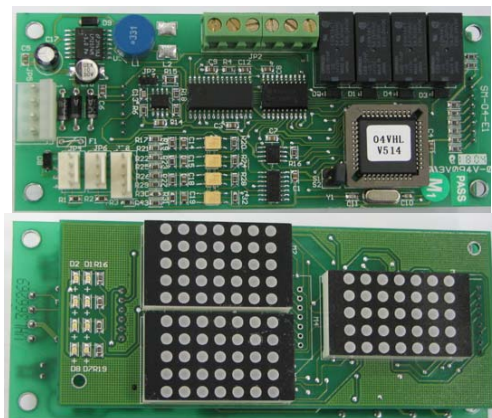


Fig. 6.19 outside View of SM-04-VHL

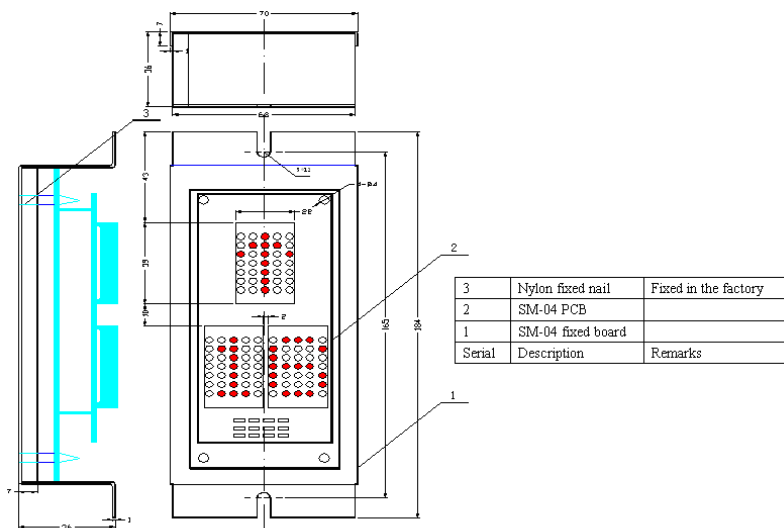


Fig. 6.20 Mounting Dimensions of SM-04-VHL

☆ Terminal Definition and Plug-in Specification on SM-04-VHL

Serial	Descriptions		Remarks
JP5	Serial port, of which Pin 1 for TXV+, Pin 2 for TXV-, Pin 3 for TXA+ and Pin 4 for TXA- respectively.		CH3.96-4
JP4	Down-call terminals, of which Pin 3+ and Pin 4- for button indicator, Pin 1 and Pin 2 for button input.		CH2510-4
JP6	Up-call terminals, of which Pin 3+ and Pin 4- for button indicator, Pin 1 and Pin 2 for button input.		CH2510-4
JP8	Pin 1 and Pin 2 JP8 for the input of normal open contact of the lockout switch, Pin 3 and Pin 4 for stand-by.		CH2510-5
JP2	JP2.1	output terminal for landing arrival gong up	CH2510-4
	JP2.2	common port for landing arrival gongs up and down	
	JP2.3	output terminal for landing arrival gong down	
	JP2.4	output terminal for landing arrival lamp up	
	JP2.5	common port output for landing arrival lamp up and down	
	JP2.6	output terminal for landing arrival lamp down	
JP7	Resistor jumper for serial communication terminals for connecting the 120Ω built-in resistor when jumpers are put on together.		
S1	Set the address codes of the display Board with the jumper on, after that the jumper MUST BE REMOVED .		
S2	Inserting the jumper on the landing call display Board of the elevator locked out shows the lockout input on this Board in effect. Only ONE of the display Boards of the elevator shall be jumped to S2.		

List 6.13 Terminal Definitions and Specification of SM-04-VHL

6.5.4 Call & LCD Control Board SM-04-UL

☆ 6.21 Outside View & Mounting Dimensions of SM-04-UL



Dimension specification: Outside Dimension: 160 x 109 cm,

LCD display dimension: 110 x 86 cm

Working temperature: -10 degree--60 degree

Working humidity: <95%

55 outside view and installation size

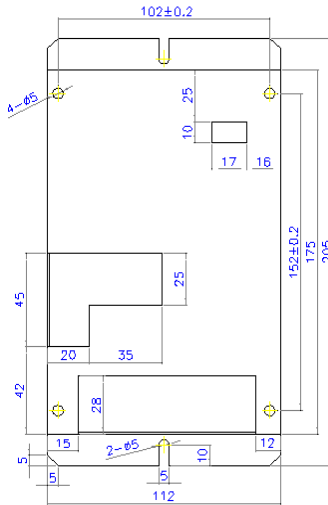


Fig. 6.22 outside View of SM-04-UL

☆ Terminal Definition and Plug-in Specification on SM-04-UL

Serial	Descriptions	Remarks
JP8	Serial port, of which Pin 1 for TXV+, Pin 2 for TXV-, Pin 3 for TXA+ and Pin 4 for TXA- respectively.	CH3.96-4
JP11	Down-call terminals, of which Pin 1 -and Pin 2 + for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4
JP12	Up-call terminals, of which Pin 1- and Pin 2+ for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4
JP10	Pin 3 and Pin 4 for the input of normal open contact of the lockout switch, Pin 1 and Pin 2 for stand-by.	CH2510-5
SW1	Resistor jumper for serial communication terminals for connecting the 120Ω built-in resistor when jumpers are put on together. Both ON for connection of CAN terminal resistor, both OFF for disconnection of it.	
SW2	SW2.1 ON for setting number of passengers allowed boarding in car by pressing on up and down buttons, OFF for normal. SW2.2 ON for display in English, OFF for display in Chinese.	
SW5	SW5.1 ON for setting address codes by pressing on up and down buttons, OFF for normal. SW5.2 ON for selecting time options by pressing on up button, for changing in time by pressing on down button, OFF for normal. Both SW2.1 and SW5.1 ON before power-on for adjusting display contrast by pressing on up and down buttons.	

List 6.14 Terminal Definitions and Specification of SM-04-UL

Table 6-15 function description

Address Codes	SW5.1 ON, press on up and down call buttons.	Range of Codes	0 to 48
Time Setting	SW5.2 ON, press on up call button to select time options, press on down call button to make changes in time.		
Passengers Allowed for Entry in Car	SW2.1 ON, press on up and down call buttons to set the number of passengers allowed boarding in car.		
Display Contrast Adjustment	in hardware	Adjust the value of resistance in R53 by turning a screwdriver while watching the change in contrast. It allows for a wide range in adjustment.	
	in software	Set both SW2.1 and SW5.1 ON before switch on power and adjust the display contrast by pressing on up and down call buttons, only good for fine adjustment.	
Language Setting	SW2.2 ON for display in English, OFF for display in Chinese.		

6.5.5 Car Call & LCD Control Board SM-04-VL

☆ Outside View & Mounting Dimensions of Landing call display Board SM-04-VL16/A

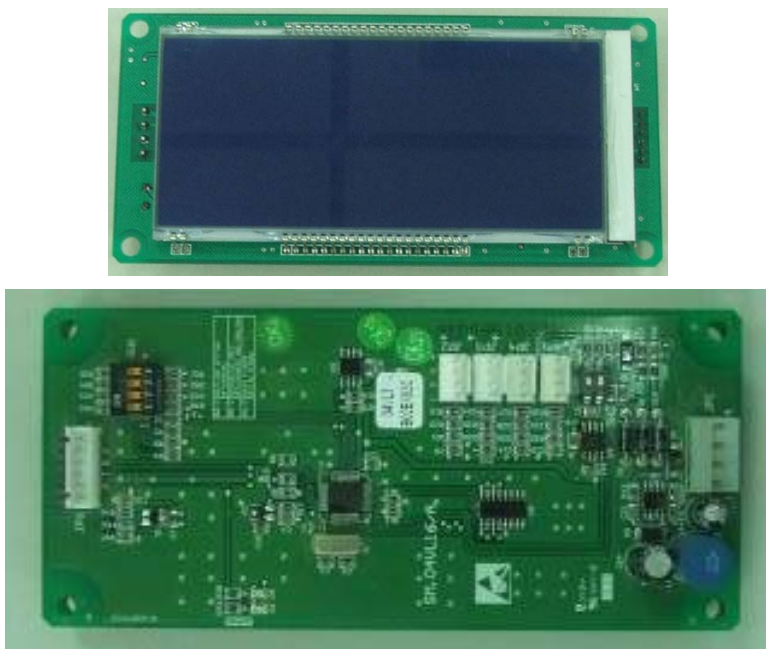


Fig. 6.23 outside View of SM-04-VL16/A

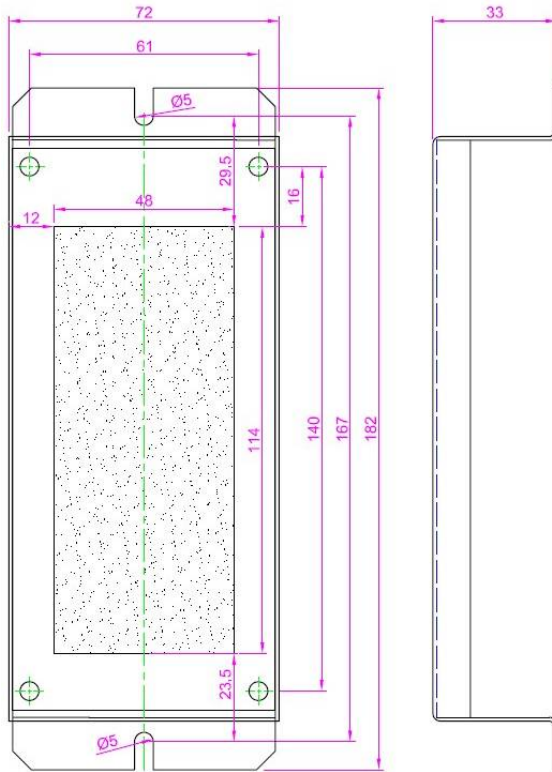


Fig.6.24 Mounting Dimensions of SM-04-VL16/A

Table 6.16 A SM-04-VL16/A plug-in specification and port definition

Serial	Descriptions	Remarks
JP1	Serial port, of which Pin 1 for TXV+, Pin 2 for TXV-, Pin 3 for TXA+ and Pin 4 for TXA- respectively.	CH3.96-4
JP2	Up-call terminals, of which Pin 1- and Pin 2+ for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4
JP3	Down-call terminals, of which Pin 1- and Pin 2+ for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4
JP4	Pin 3 and Pin 4 of JP5 connected to the normal open contact of elevator –lock switch	CH2510-4
JP5	Pin 3 and Pin 4 of JP6 is the port for passenger button	CH2510-4
SW2	The dip switch of serial communication terminal resistor , right turn mean the connection of built-in 120Ω resistor	
SW1.2	SW1.2 ON for display in English, OFF for display in Chinese and English together.	
SW1.3	SW1.3 ON for 64 floor mode, otherwise, for 48 floor mode.	

SW1.4	SW1.4 ON for setting address codes of the display board, and SW1.4 OFF after setting finished.	
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6.5.6 In-car SM-04-VL/B3 outside view and installation dimension

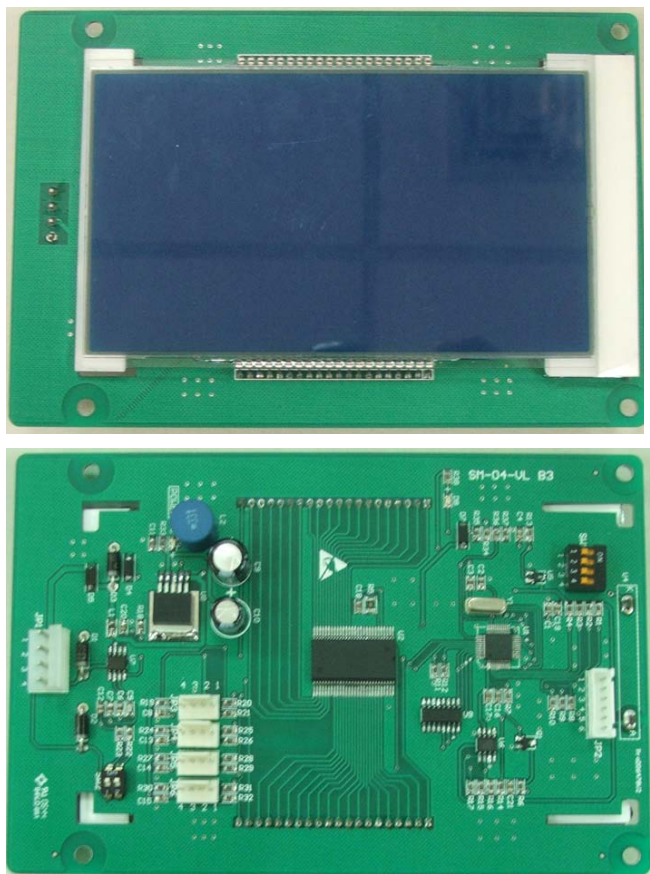


Fig 6.25 SM-04-VL/B3 outside view

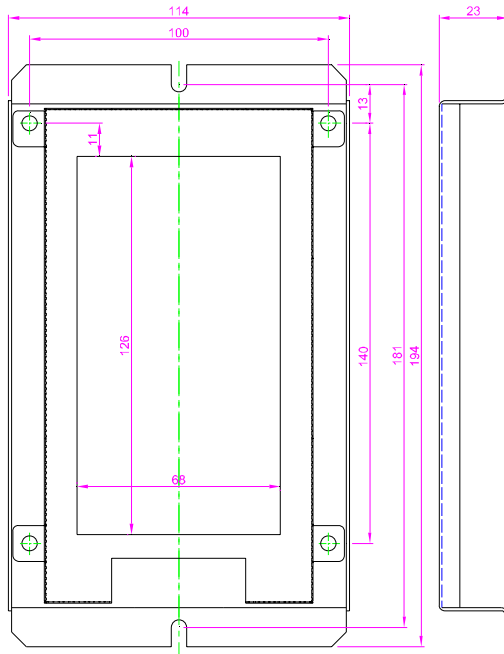


Fig 6.26 SM-04-VL/B3 installation dimension

Table 6.16B SM-04-VL/B3 plug-in specification and port definition

Serial	Descriptions	Remarks
JP1	Serial port, of which Pin 1 for TXV+, Pin 2 for TXV-, Pin 3 for TXA+ and Pin 4 for TXA- respectively.	CH3.96-4
JP3	Up-call terminals, of which Pin 1- and Pin 2+ for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4
JP4	Down-call terminals, of which Pin 1- and Pin 2+ for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4
JP5	Pin 3 and Pin 4 of JP5 connected to the normal open contact of elevator -lock switch	CH2510-4
JP6	Pin 3 and Pin 4 of JP6 is the port for passenger button	CH2510-4
SW2	The dip switch of serial communication terminal resistor , right turn mean the connection of built-in 120Ω resistor	
SW1.2	SW1.2 ON for display in English, OFF for display in Chinese and English together.	
SW1.3	SW1.3 OFF in standard mode	
SW1.4	SW1.4 ON for setting address codes of the display board, and SW1.4 OFF after setting finished.	

6.5.7 Call& LED display control panel SM-04-VSD

The outside view and installation dimension of SM-04-VSD

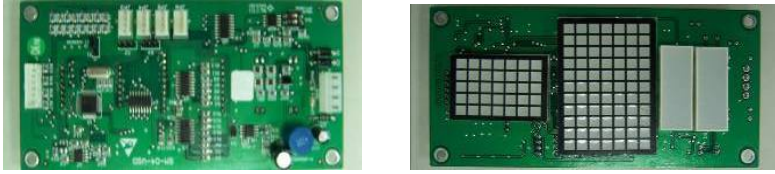


Fig 6.27 SM-04-VSD outside view

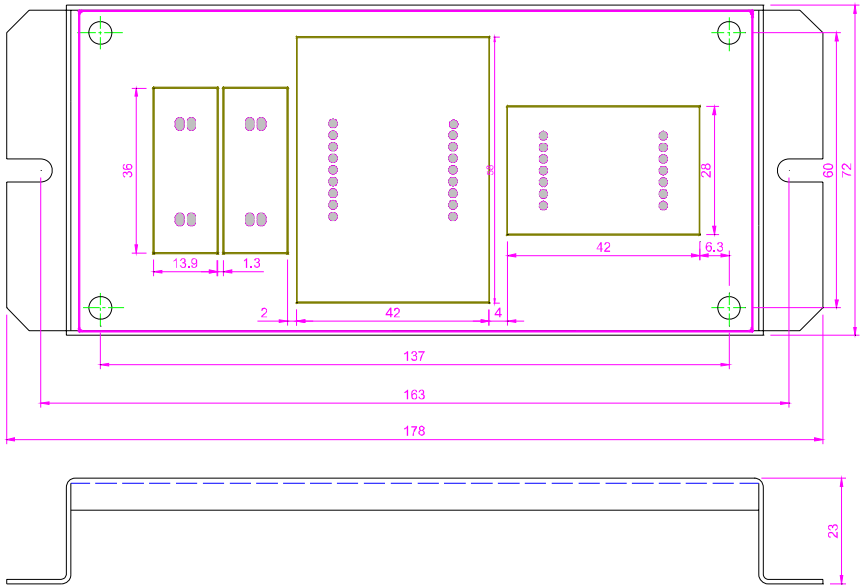


Fig 6.28 SM-04-VSD installation dimension

☆ SM-04-VSD plug-in specification and port definition

Table 6.17 SM-04-VSD plug-in specification and port definition

Serial	Descriptions	Remarks
JP1	Program burning record slot/ RS232 communication port	
JP2	Serial communication port, in which pin 1 is TXV+, pin 2 is TXV-, pin 3 is TXA+, pin 4 is TXA-	CH3.96-4
JP3	Up-call terminals, of which Pin 1- and Pin 2+ for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4

JP4	Down-call terminals, of which Pin 1- and Pin 2+ for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4
JP5	Pin 1 and Pin 2 is the elevator-lock indicator output, Pin 3 and 4 are Normal open contact input of elevator-lock	CH2510-4
JP6	standby	CH2510-4
S1	Set the address codes of the display Board with the jumper on, after that the jumper MUST BE REMOVED .	
S2	Bridge S2.1 and S2.2 to use JP2 as the button of three-wire system, otherwise , used as button for four wire system.	
S3	Bridge S3.1 and S3.2 to use JP3 as the button of three-wire system, otherwise, used as button for four wire system	
SW1	Resistor jumper of serial communication terminal, meanwhile shorting means the connection of built-in 120Ω resistor.	

6.5.8 Call & LED display SM-04-VRJ

SM-04-VRJ outside view and installation dimension

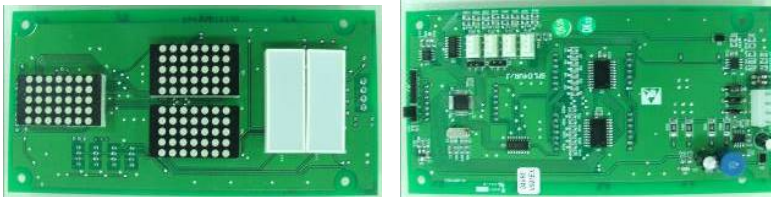


Fig 6.29 SM-04-VRJ outside view

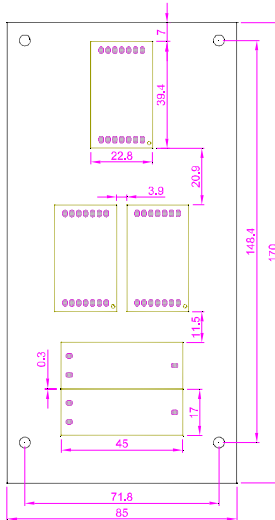


Fig 6.30 SM-04-VRJ installation dimension

☆SM-04-VRJ plug-in specification and port definition

Table 6.18 SM-04-VRJ plug-in specification and port definition

Serial	Descriptions	Remarks
JP1	Serial port, of which Pin 1 for TXV+, Pin 2 for TXV-, Pin 3 for TXA+ and Pin 4 for TXA- respectively.	CH3.96-4
JP2	Down-call terminals, of which Pin 1 -and Pin 2 + for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4
JP3	Up-call terminals, of which Pin 1- and Pin 2+ for button indicator, Pin 3 and Pin 4 for button input.	CH2510-4
JP4	Pin 3 and Pin 4 for the input of normal open contact of the lockout switch, Pin 1 and Pin 2 for stand-by.	CH2510-4
JP5	standby	CH2510-4
JP6	Program burning record slot/ RS232 communication port	
S1	Set the address codes of the display Board with the jumper on, after that the jumper MUST BE REMOVED.	
S2	Bridge S2.1 and S2.2 to use JP2 as the button of three-wire system, otherwise, used as button for four wire system.	
S3	Bridge S3.1 and S3.2 to use JP3 as the button of three-wire system, otherwise, used as button for four wire system	
SW1	Resistor jumper of serial communication terminal, meanwhile shorting means the connection of built-in 120Ω resistor.	

6.5.9 Miscellaneous (A List of Display Codes)

A list of performance displays

Displays in Car				No Voice Forecast
Inspection	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Re-leveling at power off	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Independent	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Fireman	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Safety circuit off	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Lockout	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Breakdown	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	

Overload	<input type="checkbox"/> Normal	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Special symbol/otherwise	"oL"on display
By-pass with attendant	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Full-load	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Displays in the Landing				No Voice Forecast
Inspection	<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Re-leveling at power off	<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Independent	<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Fireman	<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Safety circuit off	<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Lockout	<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Breakdown	<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
Overload	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> No	<input type="checkbox"/> Special symbol/otherwise	
By-pass with attendant	<input type="checkbox"/> Normal	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Special symbol/otherwise	1[F], 2/3 Normal
Full-load	<input type="checkbox"/> Normal	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Special symbol/otherwise	1[F], 2/3 Normal

☆ A List of Display Codes (by Standard Word Bank)

Display code list															
Code	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Display	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Code	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Display	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Code	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Display	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Code	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
Display	45	46	47	48		-1	-2	-3	-4	-5	-6	-7	-8	-9	
Code	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Display	B1	B2	B3	B4	B5	B6	B7	B8	B9	B	G	M	M1	M2	M3
Code	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89
Display	P	P1	P2	P3	R	R1	R2	R3	L	H	H1	H2	H3	3A	12A
Code	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
Display	12	13A	17	17	5A	G1	G2	G3	F	出口	C1	C2	C3	C4	C

	B		A	B											
Code	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119
Display	D1	D2	D3	D4	D	1F	2F	3F	4F	5F	1C	2C	3C	4C	
Code	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134
Display	1B	2B	3B	4B	1A	2A	4A	CF	LB	E	A	UB	LG	UG	6A
Code	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149
Display	6B	7A	7B	5B	6C				SB	15A	13B	K	U	S	EG
Code	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164
Display	KG	KE1	KE2	KE3	KE4	KE5	KE6	KE7	KE8	KE9	GF	MZ	SR	19	Z
														A	
Code	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179
Display	HP	AB	PH	AA	L1	L2	L3	PB	-10	AG	BE	RF	1L	5L	1M
Code	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194
Display	3M	4M	B1	B2	B3	B4	PM	14	14	AS	15B	16	16	22	22B
			A	A	A	A		A	B			A	B	A	
Code	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209
Display	E1	E2	S1	S2	S3	E3	E4	49	50	51	52	53	54	55	56
Code	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224
Display	57	58	59	60	61	62	63	64	P4	P5	LD	JC	S4	S5	SS
Code	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
Display	LL	5C	9F	LF	UF	FF	33	S6	S8	LP	UP	M	PC	P6	P7
							A					R			
Code	240	241	242	243	244	245	246	247							
Display	P8	P9	P1	P3	P7	P8	P9	AF							
			0	A	A	A	A								

◆ The definitions and display symbols of the terminals may vary with the edition. The above listing is the one based on the standard edition.

☆ **Wiring and Connection**

1. The connection of the display Board for power supply and communication is shown in Fig. 6.32, the power supply and communication is made available via a 4-pin plug, of which Pin 1 for TXV+, Pin 2 for TXV-, both with DC24V power supply; Pin3 for TXA+ and Pin 4 for TXA- are communication lines. The lines for communication must be **Twisted Pairs**.

2 The connection between the display Board and the landing push button is shown in Fig. 6.31.

i.e., Pin 1 and Pin 2 for push-button indicator lamp, whereas Pin 3 and Pin 4 for the push button.

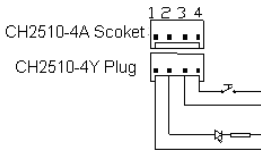


Fig. 6.31 Connection of the Push Button Lines

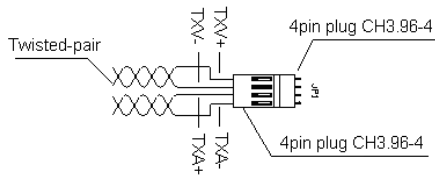


Fig. 6.32 Connection of Communication