

Part no. 462001

System: Salwico CS4000 fire alarm

Description

The printed circuit board BB, Base Board is a system module in the Salwico CS4000 fire alarm system.

The Base Board is the motherboard in the system, containing all the basic in- and outputs and controlling the system communication.

For more information about how to connect the different CS4000 system boards together, please refer to CS4000 Service & Maintenance manual.

Data

Nominal voltage Working voltage Working current Cable terminals Temperature range Weight Dimensions (bxhxd) 27 VDC 19-30 VDC 110 mA 2.5 mm² 0°C to +55°C ~380 g 248x127x37

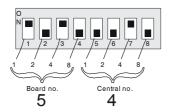
Address switch

The 8-pole DIP switch is used to set the central and base board address.

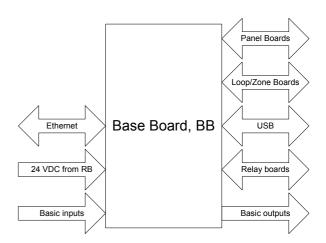
Switch 1-4 is dedicated for the board address, and switch 5-8 to the central address.

The address number can be set from 1 to 15.

Example:



Block diagram

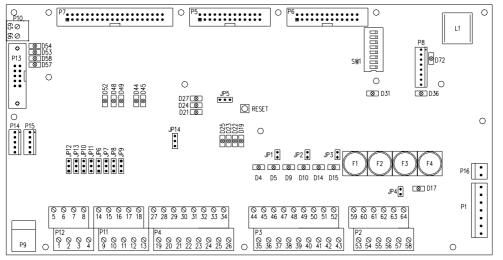


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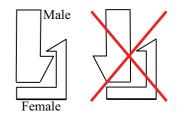


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Component layout



Correct mounting of connector P1



Jumpers

JP1-4

If fitted, relay 4-7 follows the GA input.

JP5

Internal function.

Should always be mounted towards reset button

JP6-7

RS485 termination port 1, should normally be open (mounted away from terminal P12)

JP8-9

RS485 termination port 2, should normally be open (mounted away from terminal P12)

JP 10-11

RS485 termination port 3, should normally be open (mounted away from terminal P12)

JP12-13

RS485 termination port 4, should normally be open (mounted away from terminal P12)

JP14

0 or 24VDC on terminal 27-28. For more info, see **Terminals**.

Connectors

- P1 Internal system channel and rectifier board, RB
- P5 Background debug monitor, BDM
- P6 Ethernet expansion
- P7 USB expansion
- P9 USB Device
- P10 External buzzer
- P13 To relay board, OB. NOTE! Shared Power with Terminal 31-32.P14 To panel board, channel A
- P15 To panel board, channel B
- P16 Back up power

LEDs

D4 Relay 4 D5 Relay 1 D9 Relay 5 D10 Relay 2 D14 Relay 6 D15 Relay 3 D17 Relay 7 D21 Fire indication D19 Input 4 active D22 Input 3 active D23 Input 2 active D24 Fault indication D25 Input 1 active D27 fault base board D31 Relay 8, Bell output 1 D36 Relay 9, Bell output 2 D44 TX port 1 D45 RX port 1 D48 TX port 2 D49 RX port 2 D52 Power OK port 2 D53 RX port 3 D54 TX port 3 D57 TX port 4 D58 RX port 4 D72 Power to base board

Fuses

F1 Alarm bell output F2 Alarm bell output F3 Alarm bell output F4 Alarm bell output

All fuses are 5x20mm, 1AT.

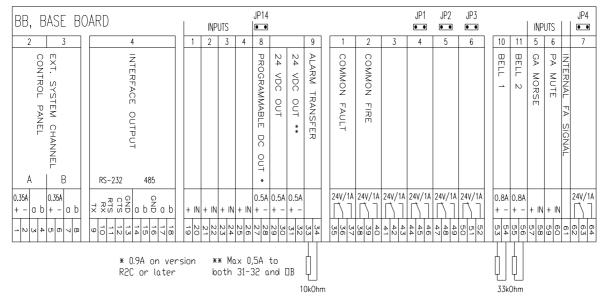
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Terminals

Terminal layout



Terminal data

DESCRIPTION	TERMINAL	FUNCTION	DATA	
Power Output 1 to Control & Repeater panel. External System channel A	1	Power +	24VDC, max 350mA	
	2	Power -		
	3	Communication, a	- RS485	
	4	Communication, b		
Power Output 2 to Control & repeater panel External System channel B	5	Power +	24VDC, max 350mA	
	6	Power -		
	7	Communication, a	RS485	
	8	Communication, b		
Interface output (RS232 <u>or</u> RS485)	9	TX	RS232, isolated.	
	10	RX		
	11	RTS		
	12	CTS		
	13	GND		
	14	A (same as 17)		
	15	B (same as 18)		
	16	GND	RS485, isolated	
	17	A (same as 14)		
	18	B (same as 15)		
Input 1	19	+	Not isolated. Activated when terminals are shorted.	
Input 1	20			
Input 2	21	+		
	22			
Input 3	23	+	For example "GA auto input".	
	24			
Input 4	25	+		
	26			

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	27	+	27VDC, max 500mA (max 900mA on version R2C or	
Programmable DC out	28		later).	
	20		JP14 mounted away from terminals= inactive 0V, active	
Power Output 3			24VDC.	
·			JP14 mounted towards terminals= inactive 24VDC,	
			active 0V	
24VDC out	29	+	27VDC, max 500mA	
Power Output 4	30	-	V _{min} =18.5VDC, V _{max} =27.5VDC NOTE! Power Output 5 and all OB share the same 500mA (via 10 pol flat cable).	
24VDC out	31	+		
Power Output 5	32	-		
Alarm transfer	33	+	Must be terminated with end of line resistor $10k\Omega$	
	34	-		
Programmable output 1	35	NC	-	
	36	С		
	37	NO		
	38	NC		
Programmable output 2	39	С		
	40	NO		
	41	NC		
Programmable output 3	42	С		
. .	43	NO		
Programmable output 4	44	NC	– 27VDC, max 1A – –	
(follows GA if jumper JP1 is	45	С		
mounted)	46	NO		
Programmable output 5	47	NC		
(follows GA if jumper JP2 is	48	С		
mounted)	49	NO		
Programmable output 6	50	NC	-	
(follows GA if jumper JP3 is	51	С		
mounted)	52	NO		
Bell output 1	53	+	24VDC, max 800mA	
	54	-	V _{min} =19.5VDC	
Bell output 2	55	+	V _{max} =27.5VDC	
	56	-	End of line resistor 33kΩ	
Input GA morse	57	+	Not isolated.	
	58		Active when shorted	
PA mute	59	+	Not isolated	
	60		Active when shorted	
Internal FA signal output	61	Open	Active low	
		collector	Active low	
Programmable output 7	62	NC	27VDC, max 1A	
(follows GA if jumper JP4 is	63	С		
mounted)	64	NO		

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