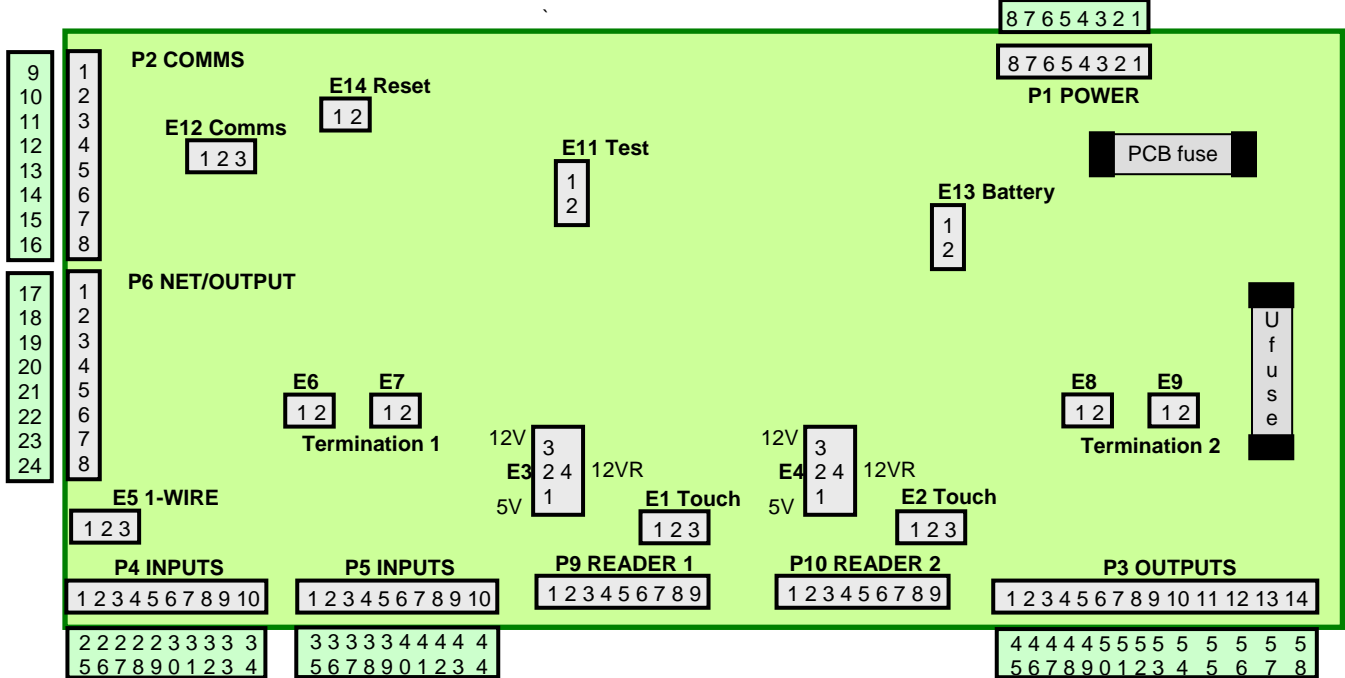




## CR355 CONNECTIONS

Rev 01.01



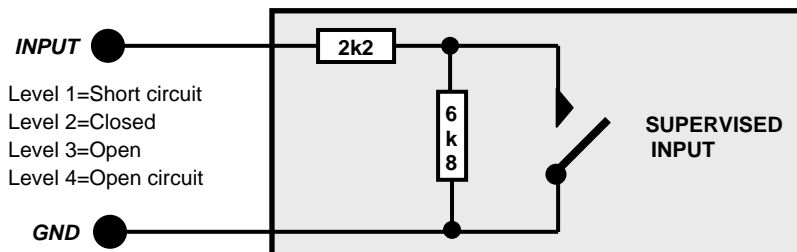
E3 and E4 2-4 provide 12V via 90 ohm resistor, preventing short-circuit on reader supply pulling down power on controller, resetting the controller.

Termination links E6, E7 and E8, E9 provide 10k ohm pull-up and down resistors required in RS485 comms for reader 1 and reader 2 respectively.

For touch readers, E1 and E2 linked 1-2, for all other reader link 2-3. E1 and E3 links for reader 1, E2 and E4 for reader 2. For touch, remove OPT1 and OPT2, R13 and R19=4k7.

Link E13 must be linked for the controller to function and is only removed when stored or when the RAM is to be cleared.

1-wire options available in future versions.



T	P1	POWER
1	1	5V from regulator.
2	2	Ground.
3	3	12V to regulator.
4	4	AC 12V.
5	5	AC 12V.
6	6	AC 9.7.
7	7	AC 9.7.
8	8	Ground.

T	P2	COMMS
9	1	RTS (RS232).
10	2	Ground.
11	3	Data (RS485).
12	4	/Data.
13	5	RX (RS232).
14	6	TX (RS232).
15	7	RTS (RS485).
16	8	/RTS (RS485).

T	P3	PORT	OUTPUTS
45	1	4	Relay 4 NC (Capture).
46	2		Relay 4.
47	3	3	Relay 3 NC (Aux output 1).
48	4		Relay 3.
49	5	2*	Relay 2 NO (Latch 2).
50	6		Relay 2.
51	7	1*	Relay 1 NO (Latch 1).
52	8		Relay 1.
53	9		12VAC.
54	10		12VAC.
55	11		12V.
56	12		Ground.
57	13		Ground.
58	14		12V.

T	P6	NETWORK
17	1	SCL.
18	2	SDA.
19	3	Ground.
20	4	1 Wire.
21	5	Ground.
22	6	Aux output 1.
23	7	Aux output 2.
24	8	12V.
	<b>E5</b>	<b>1-WIRE (future)</b>
	1	12V.
	2	1 Wire.
	3	Ground

Note: Levels set-up of output 1=closed, 2=open, 3=open permanently (unlocked), 4=closed permanently (locked).

T	P4	PORT	INPUTS (supervised)
25	1		Ground.
26	2	1	Input 1 (Egress 1).
27	3	2*	Input 2 (Action complete 1).
28	4	3	Input 3 (Egress 2).
29	5	4*	Input 4 (Action complete 2).TT
30	6		Ground.
31	7		Input 5 (Booth occupied).
32	8		Input 6 (Capture monitor).
33	9		Input 7 (Reader 1 enable).
34	10		Input 8 (Reader 2 enable).

T	P5	PORT	INPUTS (supervised)
35	1		Ground.
36	2		Input 9 (APB reader 1).
37	3		Input 10 (APB reader 2).
38	4		Input 11 (APB reset).
39	5		Input 12 (CR355 mode input).
40	6		Ground.
41	7	5	Input 13 (Aux input 1).
42	8	6	Input 14 (Aux input 2).
43	9	7	Input 15 (Aux input 3).
44	10	8	Input 16 (Aux input 4).

\*Note: Levels set-up of input 1=closed, 2=open, 3=illegally open, 4=open too long, 5=door not opened.

P9	READER 1 (programmer*)
1	Power 5V (link E3 1-2), 12VR (2-4) or 12V (2-3).
2	Data/LO/Touch.
3	Clock/HI.
4	Ground.
5	Green LED.
6	Yellow LED.
7	Red LED.
8	Data – TX.
9	/Data – RX.

P10	READER 2
1	Power 5V (link E4 1-2), 12VR (2-4) or 12V (E2 2-3).
2	Data/LO/Touch.
3	Clock/HI.
4	Ground.
5	Green LED.
6	Yellow LED.
7	Red LED.
8	Data – TX.
9	/Data – RX.

\*Note: Programmer uses pins 1 (12V), 8 and 9. Requires link E11.

Node address set with programmer.

Front processors require the setting (with hand programmer) ABCD where:

A=node 2 on P10

B=node 1 on P10 (currently not possible)

C=node 2 on P9

D=node 1 on P9

0=none, 1=installed

<b>NODE / MUX</b>	
<b>PC</b>	
<b>Front Processors</b>	
<b>Controller Name</b>	
<b>*Previous Controller</b>	
<b>Next Controller</b>	

\*Note: Only earth LAN segment to previous controller (towards MUX)