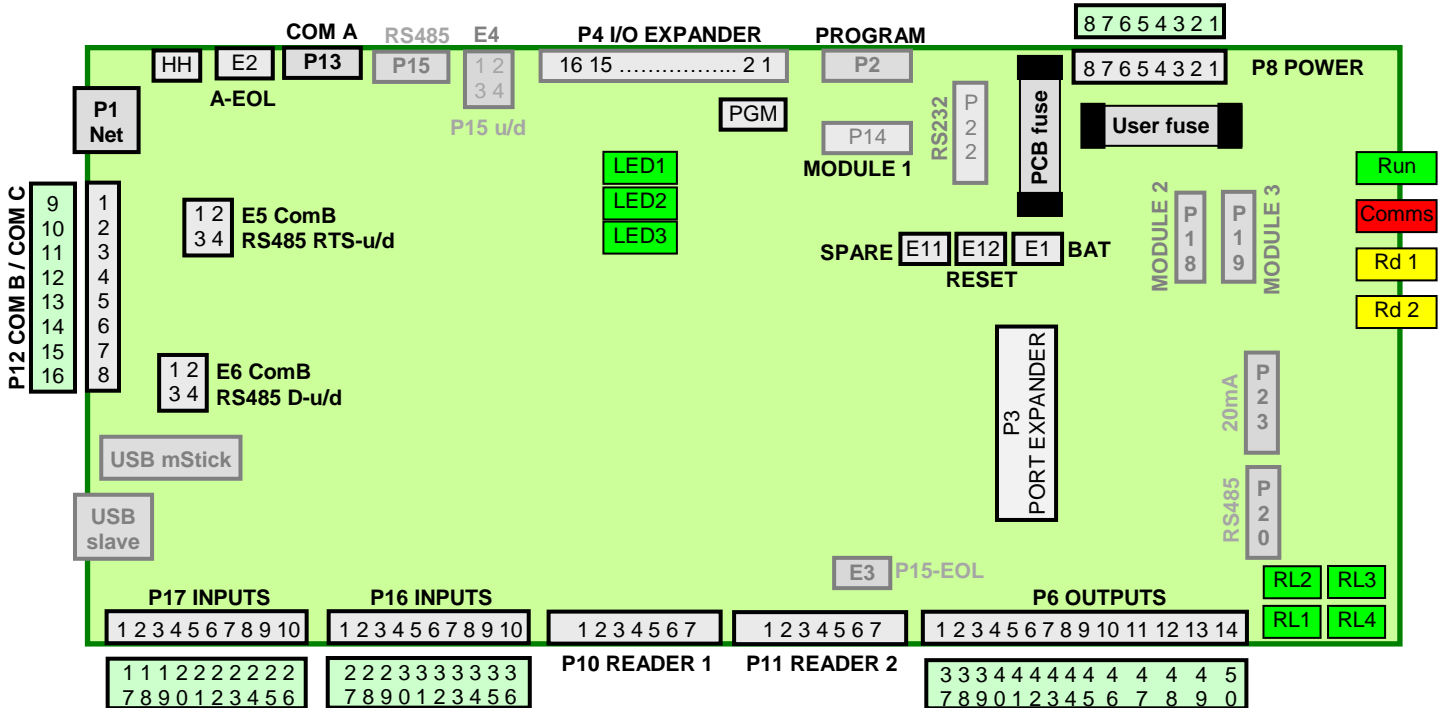


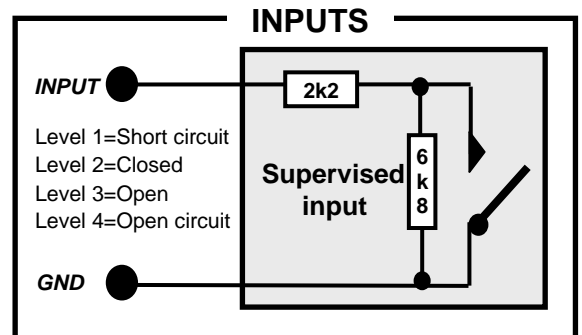
CR391 CONNECTIONS

Revision 00.02



The CR391 is similar to the Softcon CR390 controller with the additional comms options of TCP, USB and serial. When CR391 is connected as a slave to a LAN controlled via a COM351 (MUX) card in the PC, the COM351 must have version 3.10 or later.

LINK	FUNCTION
E1	Battery link
E2	Com port A end of line resistor (default HH programmer)
E3	Sub LAN Slave RS485 end of line resistor
E4	Sub LAN Slave pull-up and pull-down resistors
E5	LAN MASTER 2 wire Pull-up Pull-down resistors
E6	LAN MASRER 4 wire Pull-up Pull-down resistors
E7	RS485 PORT end of line resistor
E8	RS485 PORT Pull-up Pull-down resistor
E9	Current loop 5 Volt Pull-up
E10	Current loop 5 Volt Pull-up
E11	Factory Reset
E12	RAM Drop
HH1	Handheld programmers mode
PGM	Firmware program link



LED	FUNCTION
LED1	Boot loader running / Board fault
LED2	DB update on controller
LED3	RS485 LAN Communication
RL1	Relay 1 energized
RL2	Relay 2 energized
RL3	Relay 3 energized
RL4	Relay 4 energized

P10/11	READER 1/2
1	Power (Set in HH programmer)
2	Data/LO/Touch.
3	Clock/HI.
4	Ground+0.6V
5	Green LED.
6	Yellow LED.
7	Red LED.

P13	COM A RS485 HH
1	Ground
2	Data.
3	/Data.
4	5V

T	P12	COM B RS485 LAN
10	2	Ground
11	3	DATA
12	4	/DATA
15	7	RTS
16	8	/RTS

T	P12	COM C RS485 LAN
9	1	RTS
10	2	Ground
13	5	RX
14	6	TX

P14	COM D RS232
1	GND
2	TX
3	RTS
4	RX
5	5V
6	12V

P18	COM E RS232
1	GND
2	TX
3	RTS
4	RX
5	5V
6	12V

T	P6	PORT	OUTPUTS**
37	1	4	Relay 4 NC (Capture)
38	2		Relay 4.
39	3	3	Relay 3 NC (Aux output 1)
40	4		Relay 3
41	5	2*	Relay 2 NO (Latch 2)
42	6		Relay 2
43	7	1*	Relay 1 NO (Latch 1)
44	8		Relay 1
45	9		12VAC (user)
46	10		12VAC (user)
47	11		12V (user)
48	12		Ground (user). See Note
49	13		Ground (user). See Note
50	14		12V (user)

T	P8	POWER
1	1	Not connected
2	2	Not Connected
3	3	Not Connected
4	4	12VAC/14VDC.(PCB power)
5	5	12VAC/14DC. (PCB power)
6	6	10VAC/12.5VDC(User power)
7	7	10VAC/12.5VDC(User power)
8	8	Ground

NOTE: When using a reader that is powered by the user supply and using Wiegand on P10 or P11. Connect Ground of P10 or P11 to the user supply depending on the reader port utilized. This will prevent random miss reads on Wiegand.

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

** Reserved port allocations are for CR351-4 mode. Port allocations are configurable in CR355 mode.

T	P17	PORT	INPUTS(supervised)*
17	1		Ground
18	2	1	Input 1 (Egress 1)
19	3	2*	Input 2 (Action complete 1)
20	4	3	Input 3 (Egress 2)
21	5	4*	Input 4 (Action complete 2)
22	6		Ground
23	7		Input 5 (Booth occupied)
24	8		Input 6 (Capture monitor)
25	9		Input 7 (Reader 1 enable)
26	10		Input 8 (Reader 2 enable)

T	P16	PORT	INPUTS(supervised)**
27	1		Ground
28	2		Input 9 (APB reader 1)
29	3		Input 10 (APB reader 2)
30	4		Input 11 (APB reset)
31	5		Input 12 (Input CR355 mode)
32	6		Ground
33	7	5	Input 13 (Aux input 1)
34	8	6	Input 14 (Aux input 2)
35	9	7	Input 15 (Aux input 3)
36	10	8	Input 16 (Aux input 4)

*Note: Levels of input 1=closed, 2=open, 3=illegally open, 4=open long, 5=not opened.
Supervised input 1=SS, 2=closed, 3=open, 4=OC, 5=illegally open, 6=open long, 7= not opened.

** Reserved port allocations are for CR351-4 mode. Port allocations are configurable in other modes.

CR Name / NODE	name		node		
CR type / PC type	CR		PC		
IP / MASK	ip		mask		
Gate / MAC	gate		mac		
Front / Serial	front	type	baud	bits	parity
*Prev/Next CR	previous		next		

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