

CVX-1301

Wiring Diagram and Quick Reference *DataBender® Universal Data Converter*



External connections and product description



Note: Terminals shown for reference. Connections may or may not be utilized based on converter function.

The Cypress CVX-1301 is based on the CVX-1201 series converter. For most legacy converter functions, the DIP switch settings will be set the same as with the Cypress CVX-1201.

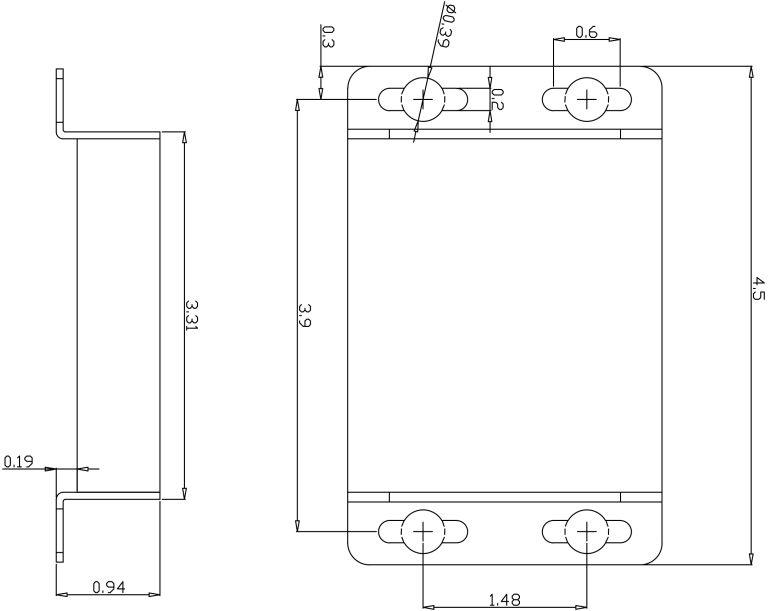
This document provides a quick reference to the CVX-1301 converter connections and switch settings. Refer to the CVX-1301 operating manual for detailed information on specific conversion functions.

A Diagnostic LED is provided to provide operational status of the converter:

Diagnostic LED OFF - No power

Diagnostic LED Blinking Green - Unit is operating

Diagnostic LED Red - Undefined DIP Switch Setting



DIP Switch Application Table

#	DIP SWITCH SETTING								INPUT		OUTPUT		
	1	2	3	4	5	6	7	8	Interface	Format	Interface	Format	
0									Test Mode				
1	X								Wiegand 48bit	Amtech 4000	Wiegand	26 Bit	
2		X							Wiegand 32bit	Bosch	Wiegand	26 Bit	
3	X	X							Wiegand 34 bit		CK 9410	Wiegand	26 Bit
4			X						Wiegand 34 bit		CK 98-1005A	Wiegand	26 Bit
5	X		X						Wiegand 34 bit		CK 98-1007A	Wiegand	26 Bit
6		X	X						Wiegand 27 bit		Dortell	Wiegand	26 Bit
7	X	X	X						Wiegand 36 bit		Ensec	Wiegand	26 Bit
8				X					Wiegand 30 bit		Amtech Generic	Wiegand	26 Bit
9	X			X					Wiegand 34 bit		Honeywell	Wiegand	26 Bit
10		X		X					Wiegand 36 bit		Indala	Wiegand	26 Bit
11	X	X		X					Wiegand 34 bit		Kantech	Wiegand	26 Bit
12			X	X					Wiegand 32 bit		LSU	Wiegand	26 Bit
13	X		X	X					Wiegand 30 bit		Monitor Dyn.	Wiegand	26 Bit
14		X	X	X					Wiegand 30 bit		Pacs30	Wiegand	26 Bit
15	X	X	X	X					Wiegand 32 bit		Spaz32	Wiegand	26 Bit
16					X				Wiegand 32 bit		Vara Systems	Wiegand	26 Bit
17	X				X								
18		X			X								
19	X	X			X								
20			X		X								
21	X		X		X								
22		X	X		X								
23	X	X	X		X								
24				X	X								
25	X			X	X								
26		X		X	X								
27	X	X		X	X								
28			X	X	X								
29	X		X	X	X								
30		X	X	X	X								
31	X	X	X	X	X				TEST	RS-232	RS-232	Test	9600
Continued													

DIP Switch Application Table

#	DIP SWITCH SETTING								INPUT		OUTPUT	
	1	2	3	4	5	6	7	8	Interface	Format	Interface	Format
32						X			Wiegand Output TEST MODE- 26 Bit FC =123 Badge = 4567			
33	X					X			Wiegand	1 to 48 bits	RS-232 (9600)	Hex Digits
34		X				X			Wiegand	1 to 96 bits	RS-232 (9600)	24 Hex/Dec
35	X	X				X						
36			X			X						
37	X		X			X						
38		X	X			X						
39	X	X	X			X						
40				X		X						
41	X			X		X						
42		X		X		X						
43	X	X		X		X						
44			X	X		X						
45	X		X	X		X						
46		X	X	X		X						
47	X	X	X	X		X						
48					X	X						
49	X				X	X						
50		X			X	X						
51	X	X			X	X						
52			X		X	X						
53	X		X		X	X						
54		X	X		X	X						
55	X	X	X		X	X						
56				X	X	X						
57	X			X	X	X						
58		X		X	X	X						
59	X	X		X	X	X						
60			X	X	X	X						
61	X		X	X	X	X						
62		X	X	X	X	X						
63	X	X	X	X	X	X		TEST	MODE	FC = 246	BADGE = ++	
Continued												

DIP Switch Application Table

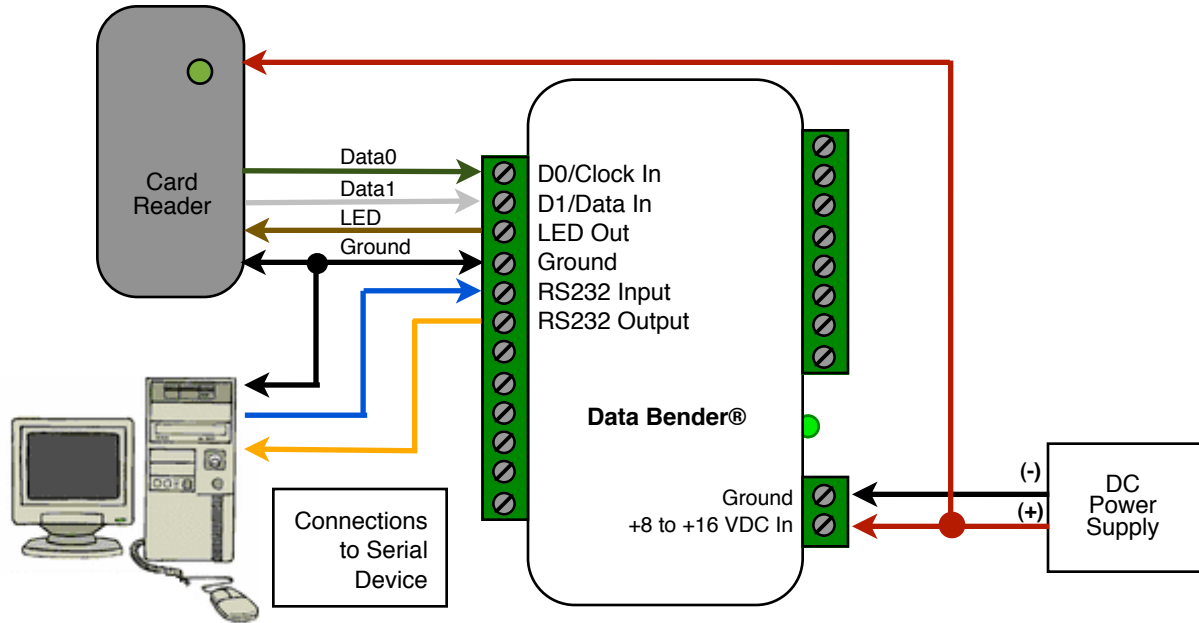
#	DIP SWITCH SETTING								INPUT		OUTPUT	
	1	2	3	4	5	6	7	8	Interface	Format	Interface	Format
64								X	Reserved			
65	X							X				
66		X						X				
67	X	X						X				
68			X					X				
69	X		X					X				
70		X	X					X				
71	X	X	X					X	RS-232 (9600)	TransCore	Wiegand	26 bit
72				X				X	RS-232 (9600)	TransCore	Wiegand	Xico 6
73	X			X				X	RS-232 (9600)	TransCore	Wiegand	37
74		X		X				X	RS-232 (9600)	TransCore	Wiegand	26
75	X	X		X				X	RS-232 (9600)	TransCore	Wiegand	26 (9117)
76			X	X				X	RS-232 (9600)	TransCore	Wiegand	26 (9161)
77	X		X	X				X	RS-232 (9600)	TransCore	Wiegand	37
78		X	X	X				X	RS-232 (9600)	TransCore	Wiegand	37
79	X	X	X	X				X	RS-232 (9600)	TransCore	Wiegand	26 (9161B)
80					X			X				
81	X				X			X				
82		X			X			X				
83	X	X			X			X				
84			X		X			X	RS-232 (9600)	TransCore 26b	Wiegand	26 bit
85	X		X		X			X	RS-232 (9600)	TransCore	Wiegand	26 bit
86		X	X		X			X				
87	X	X	X		X			X				
88				X	X			X				
89	X			X	X			X				
90		X		X	X			X				
91	X	X		X	X			X				
92			X	X	X			X				
93	X		X	X	X			X				
94		X	X	X	X			X				
95	X	X	X	X	X			X				

DIP Switch Application Table

#	DIP SWITCH SETTING								INPUT		OUTPUT	
	1	2	3	4	5	6	7	8	Interface	Format	Interface	Format
96						X	X		Reserved			
97	X					X	X		Wiegand	24-40 bit	Wiegand	26 bit
98		X				X	X		Wiegand	24-40 bit	Wiegand	26 bit
99	X	X				X	X		Wiegand	35 bit	Wiegand	26 bit
100			X			X	X		Strobed	ABA/ 12 digits	Wiegand	26 bit
101	X		X			X	X		Strobed	ABA/Last 8 dig.	Wiegand	26 bit
102		X	X			X	X		Wiegand	26 bit	Strobed/ABA	12 digits
103	X	X	X			X	X					
104				X		X	X					
105	X			X		X	X					
106		X		X		X	X					
107	X	X		X		X	X					
108			X	X		X	X					
109	X		X	X		X	X					
110		X	X	X		X	X					
111	X	X	X	X		X	X					
112					X	X	X					
113	X				X	X	X					
114		X			X	X	X					
115	X	X			X	X	X					
116			X		X	X	X					
117	X		X		X	X	X					
118		X	X		X	X	X					
119	X	X	X		X	X	X					
120				X	X	X	X					
121	X			X	X	X	X					
122		X		X	X	X	X					
123	X	X		X	X	X	X					
124			X	X	X	X	X					
125	X		X	X	X	X	X					
126		X	X	X	X	X	X					
127	X	X	X	X	X	X	X					

Wiring Diagram #1 Wiegand to Serial

Reader powered by external supply (8 to 16 VDC)



DB-9 Connections
Direct to PC Com Port

CVX Terminal	DB9 Pin
Ground	5
RS232 Input	3
RS232 Output	2

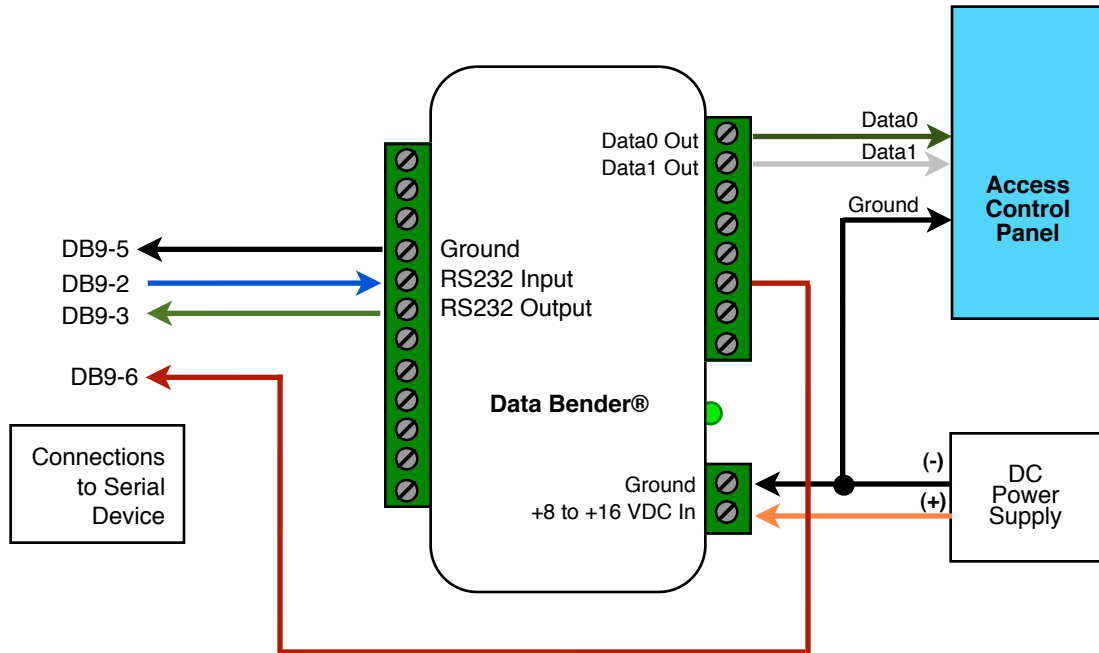
The Wiegand to RS232 converters support incoming commands to control the Reader LED and Converter Relay.

RX Data:

NOTE: Commands must be capitalized characters

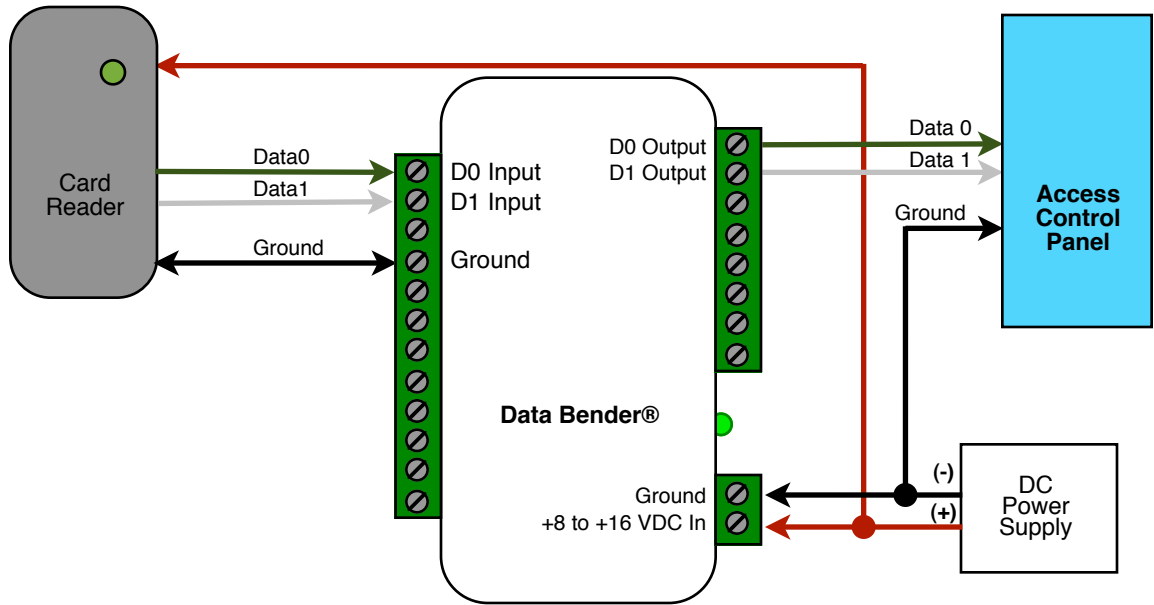
- Turn LED on..... @ L 1
- Turn LED off..... @ L 0
- Toggle LED..... @ L 2 (Bi-Color LED Turns Orange)
- Turn Relay on..... @ R 1
- Turn Relay off..... @ R 0

Wiring Diagram #2 Serial to Wiegand

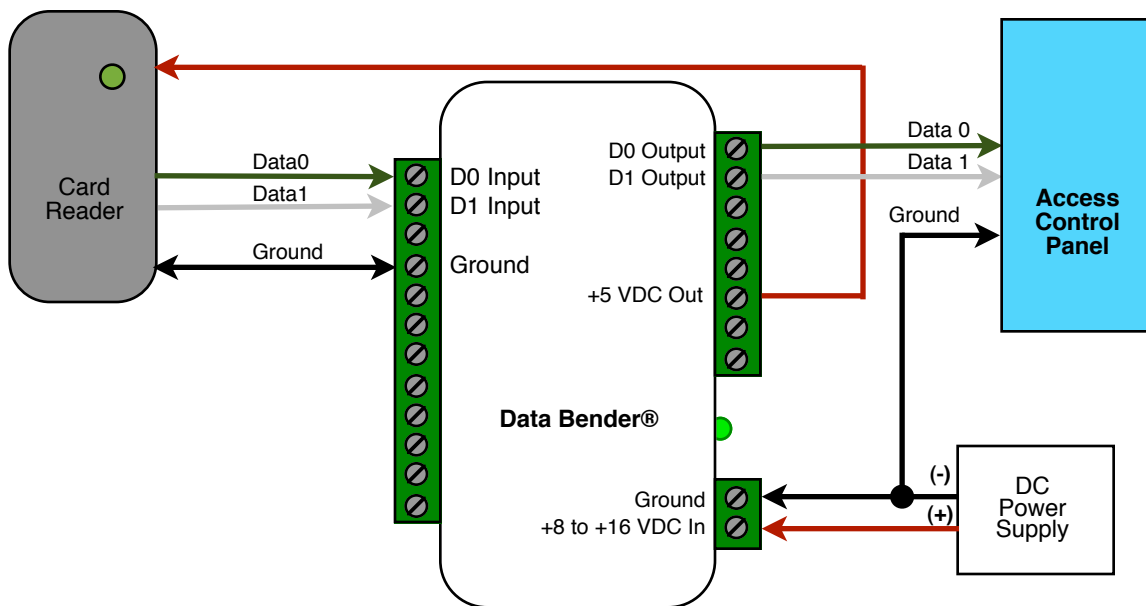


Wiring Diagram #3 Wiegand to Wiegand

Reader powered by external supply (8 to 16 VDC)

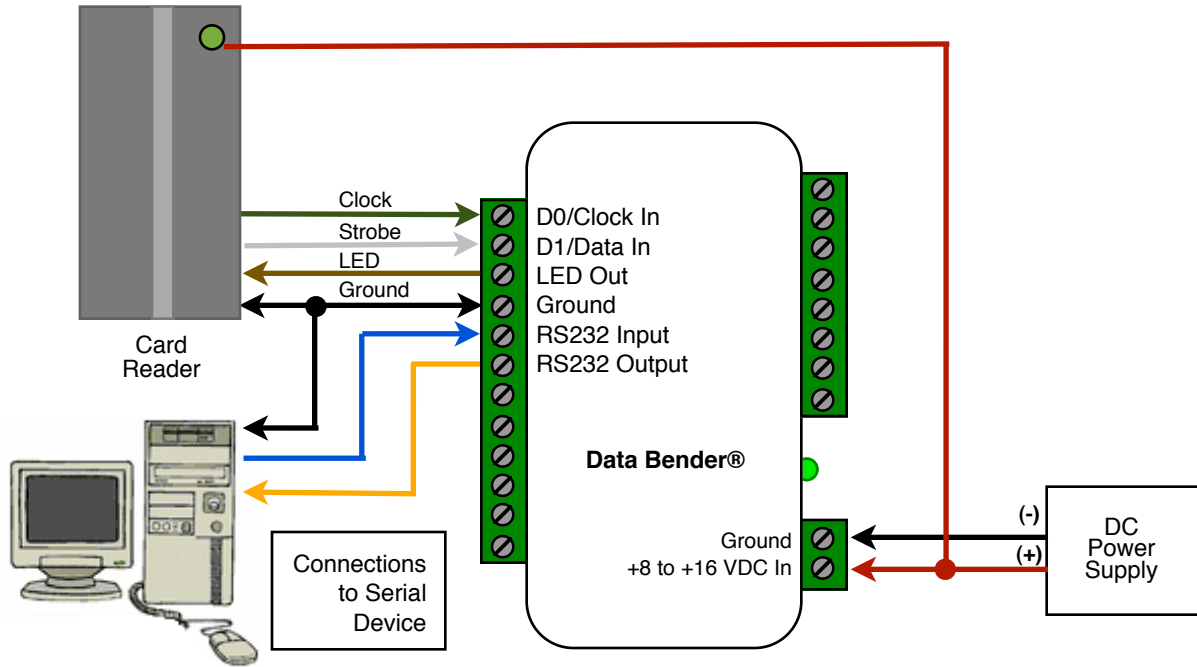


Reader powered by 5 Volt Supply



Wiring Diagram #4 Strobed to Serial

Reader powered by external supply (8 to 16 VDC)



DB-9 Connections
Direct to PC Com Port

CVX Terminal	DB9 Pin
Ground	5
RS232 Input	3
RS232 Output	2

The Strobed to RS232 converters support incoming commands to control the Reader LED and Converter Relay.

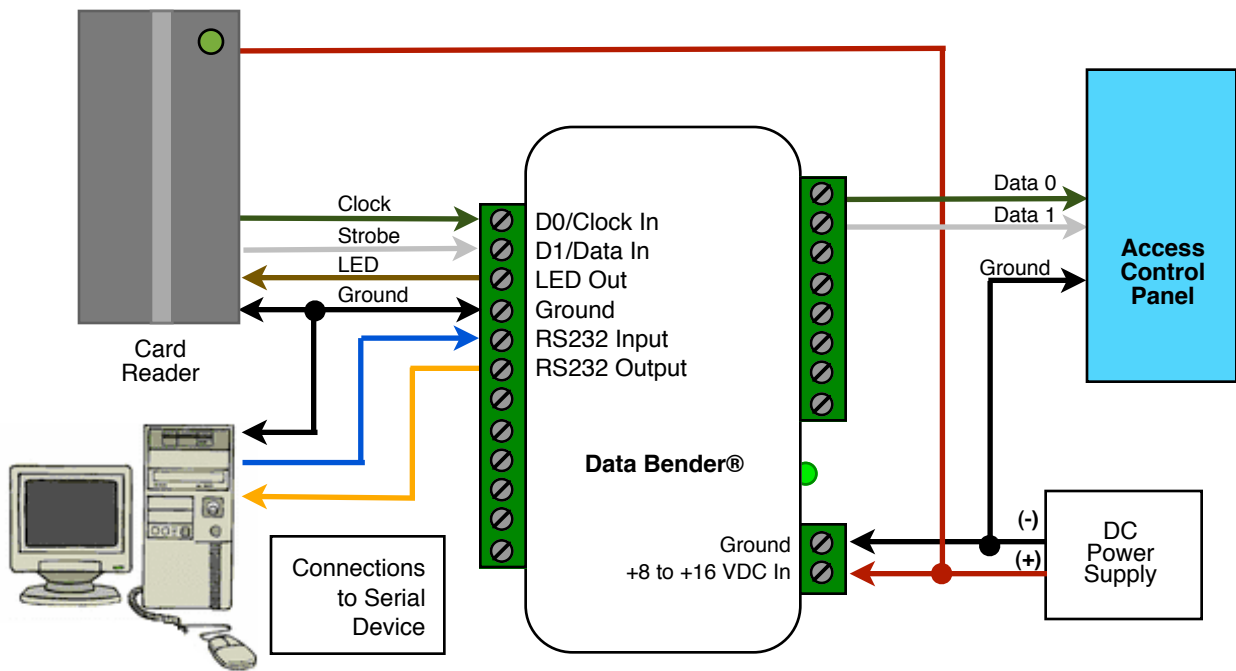
RX Data:

NOTE: Commands must be capitalized characters

- Turn LED on..... @ L 1
- Turn LED off..... @ L 0
- Toggle LED..... @ L 2 (Bi-Color LED Turns Orange)
- Turn Relay on..... @ R 1
- Turn Relay off..... @ R 0

Wiring Diagram #6 Strobed to Wiegand

Reader powered by external supply (8 to 16 VDC)



Reader powered by converter +5 VDC

