



# Wiegand Reader User Guide

ECL-ACC910 / ECL-ACC900WR / ECL-ACC990 LR

v070502

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ECL-ACC910 / ECL-ACC900WR / ECL-ACC990 LR

FC CE MA v070502

## 1. Main Features



- A. Various programmable output formats WG26/34, ABA-II, ASYNC & OMRON.
- B. Anti-pass-back available, depending upon system configuration.
- C. Built-in watchdog to prevent the system from locking up.
- D. Easily integrated with Eclipse or other access control systems.

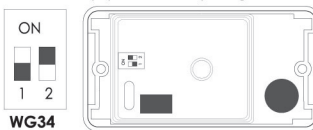
Item Number	ACC910	ACC900WR	ACC990LR
RF Frequency	125KHz / 13.56MHz		125KHz
Voltage	9-16 VDC		
Power Consumption	70 mA	125K 80 mA 13.56M <1W	350 mA
Communication Interface	WG 26 / 34, ABA-II, ASYNC		
Baud Rate	9600 bps (N, 8, 1)		
Operation Temperature	-20°C to +75°C		
Proximity Reading Range	10-18 cm(125KHz) / 3-8 cm(13.56MiaRe)		33-60 cm
Indicator	1 bi-color LED and 1 beeper		3 LED and 1 beeper
Keypad	No	Yes	No
Waterproof	Optional	No	Yes
Color	Gray / Silver		Gray
Dimension (mm)	81(L)x43(W)x18(H)	111(L)x77(W)x26(H)	228(L)x228(W)x38(H)
N.W. (g)	40 ± 5	90 ± 10	1,000 ± 50
Housing Material	ABS	ABS	ABS

## 2.1. ECL-ACC910 Terminal Cable

Wire Application	Wire	Color	Description
Power	1	Red	DC Power 12V
	2	Black	DC Power 0V
LED	3	Yellow	LED Red Input ( Low Bright)
	4	Brown	LED Green Input ( Low Bright)
Wiegand	5	Blue	Wiegand DAT:1
	6	Green	Wiegand DAT:0
Beeper	7	Purple	Beeper Input ( Low Sound )
	8	White	Card Present
Beeper	9	Gray	Beeper Output

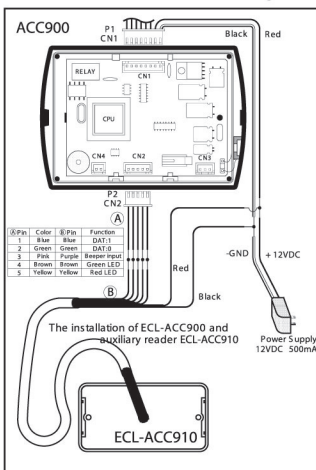
Output	WG26	WG34	RS-232	Magnetic ( ABA )
34/26	2	Open(off)	Close(on)	Open(off)
ABA	1	Open(off)	Open(off)	Close(on)

ECL-ACC910 RS-232 Format: ( 9600,N,8,1 )  
 DAT:0: TTL Inverted Serial Output. ( Can connect to PC comm port )  
 DAT:1: TTL Serial Output.( connect to PC comm. port through RS-232 invert driver)



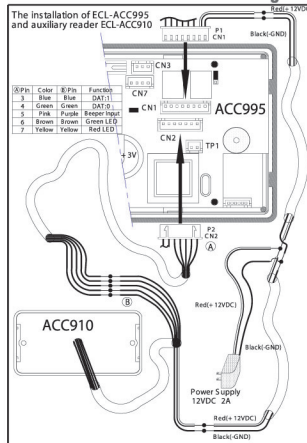
## 2.2. ECL-ACC910 & ECL-ACC900

### Installation diagram



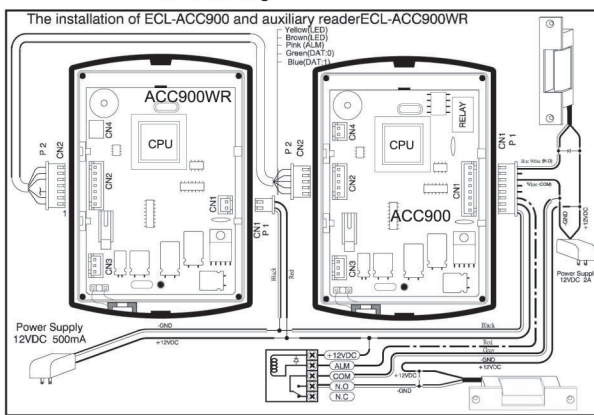
## 2.3. ECL-ACC910 & ECL-ACC995

### Installation diagram



## 3.2. ECL-ACC900WR & ECL-ACC900

### Installation diagram



## 3.1. ECL-ACC900WR Terminal Cable

Wire Application	Wire	Color	Description
Power	1	Thick Red	DC Power 12V
	2	Thick Black	DC Power 0V

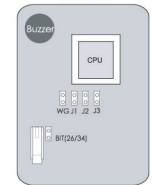
  

Wire Application	Wire	Color	Description
Wiegand ABA	1	Thin Blue	Wiegand DAT:1 Input
	2	Thin Green	Wiegand DAT:0 Input
Beeper	3	Orange	ABA Format Card Present
	4	—	No Connection
LED	5	Pink	Beeper Input ( Low Sound )
	6	Brown	LED Green Input ( Low Bright)
	7	Yellow	LED Red Input ( Low Bright)

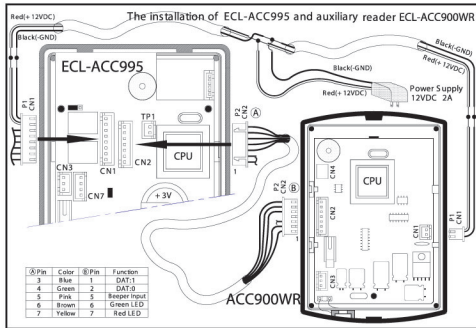
Wire Application	Wire	Color	Description
Tamper Switch	1	Red	N.C.
	2	Orange	COM
	3	Yellow	N.O.

## ECL-ACC900WR 125KHz



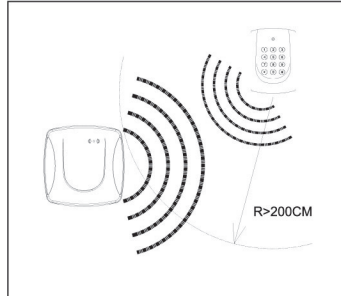
Format	Wire	Color	Description
WG26	WG	J2	RS1/8bits
	J2	J2	RS1/8bits
WG34	WG	J2	RS1/8bits
	J2	J2	RS1/8bits
RS-232	WG	J2	RS1/8bits
	J2	J2	RS1/8bits
ABA 10	WG	J2	RS1
	J2	J2	RS1

**3-3. ECL-ACC900WR & ECL-ACC995**  
 Installation diagram



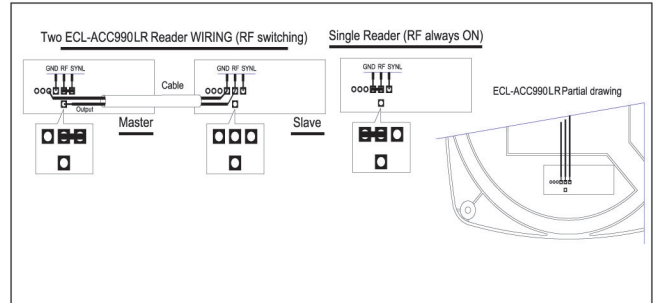
**4-1. ECL-ACC990LR Installation Notice**

Minimum distance between ECL-ACC990LR & other proximity Reader (200cm)



**4-2. ECL-ACC990LR Wiring**

When the distance between 2 pcs ECL-ACC990LR is less than 6 meter (suggestion value), we can use the following ways to solve in order to avoid interference with each other to result in reading distance decrease.



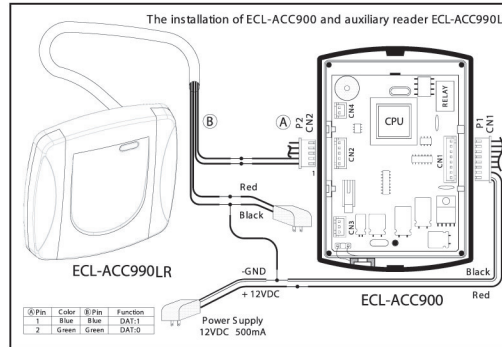
**4-3. ECL-ACC990 LR Terminal Cable**

Table - Color Coding				
Wire Application	Wire	Color	Description	Remark
Power	1	Red	12 - 18VDC	regulated
	2	Black	Power Ground	
Wiegand	3	Blue	Wiegand DAT:1	Open collected
	4	Green	Wiegand DAT:0	Open collected
	5	White	Card Present	
Beeper	6	Purple	Beeper Output	
Output Selection	7	Yellow	SEL1	
	8	Brown	SEL2	

Output Selection				
Output	WG26	WG34	RS-232	WG34 + 4
SEL1	Open	Close to GND	Open	Close to GND
SEL2	Open	Open	Close to GND	Close to GND

Note:  
 WG34+4: Follow 0101 after WG34 data stream for reader identification.  
 See Also: ECL-ACC990 do anti-pass-back with 2 pcs of ECL-ACC990LR.

**4-4. ECL-ACC990LR & ECL-ACC900**  
 Installation diagram



**4-5. ECL-ACC990LR & ECL-ACC995**  
 Installation diagram

