

A. Package content

- Controller x 1, Hanger x 1, Accessory kit x 1 (Plastic screw x 4, Fastening screw x 4, 1N4004 x 1), Cable (2pin x 1, 5pin x 1, 6pin x 1, 8pin with RJ45 x 1)

B. Specification

- Power input : 9-24V DC
- Recommended power : 12VDC / 500 mA or more
- Wiegand range : Max 100M
- RS485 range : Max 1000M
- Relay : DC30V-2A
- Default IP : 192.168.0.66

- Physical Dimension : 78.5 x 129 x 23 (mm)

■ RECOMMENDED

- Cable with shielded, Linear DC power supply, Network cable.

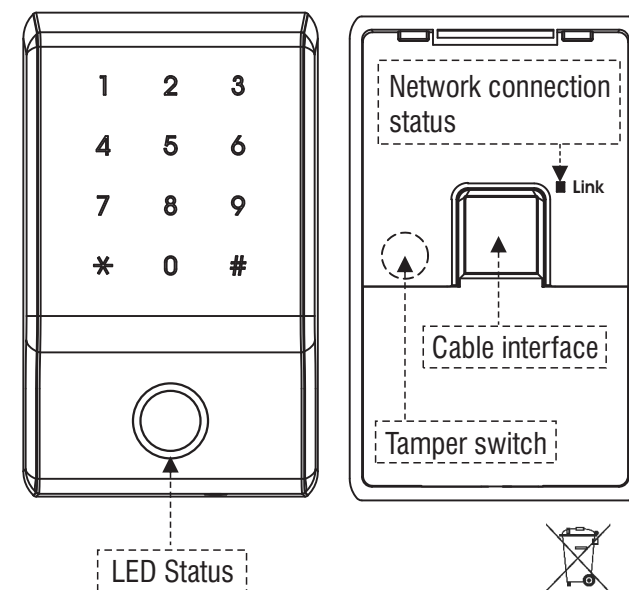
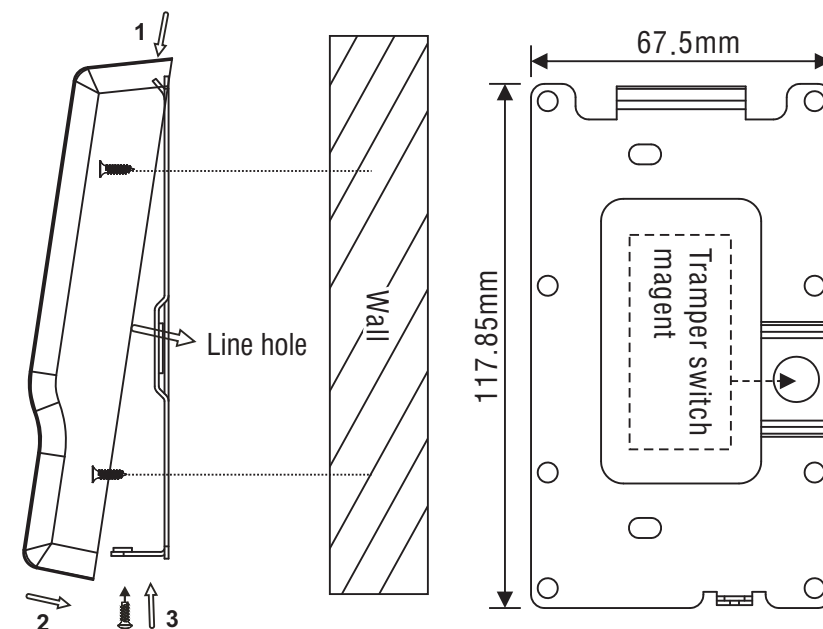
■ Notice

- Do not connect other cable to the power except the power cable.
- Do not apply any unverified power supply, otherwise system may be damaged or have an unstable condition.

C. Action Description

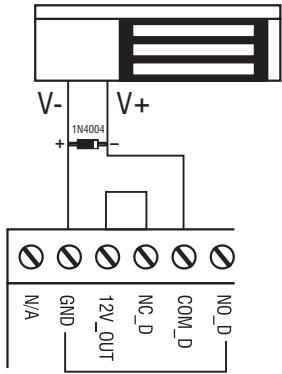
Command	Buzz	LED	LED status
Run in Boot (Please contact technical)		White	Flash per one sec
Standby mode		blue	flash per one sec
System ready for Dummy Reader (Disconnected with SEMAC)		blue & red	alternately flash per one sec
Security Active (To be SEMAC reader)		red	flash per one sec
Illegal card/password	1 long beep	red	keep light two sec
Registered card/password	1 short beep	green	keep light until relay is not trigger
Force open/ Unlock		green	keep light
Force close		red	keep light
IP Conflict	1 short & 1 long beep	red & keypad	flash per one sec
Door open too long/Intrusion	keep short beep per one sec	red	flash per one sec until event is solved
Enter Command mode	1 short beep	blue & red	together flash per one sec
Read card under command mode		blue & red	alternately flash per one sec
Modification fail	1 long beep		
Disassemble	keep beeping		
Waiting for next verification (Ex: Multiple verification time zone, card + password)		keypad	flash per one sec (continue 10 sec)
Enter wrong password 3 times		keypad	No action 30 sec

D. Installation

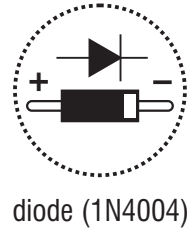
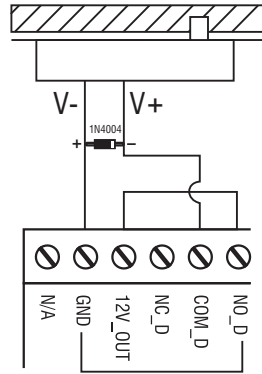


POE RELAY BOX & DC 12V LOCK DIAGRAM

Fail Safe DC 12V Lock



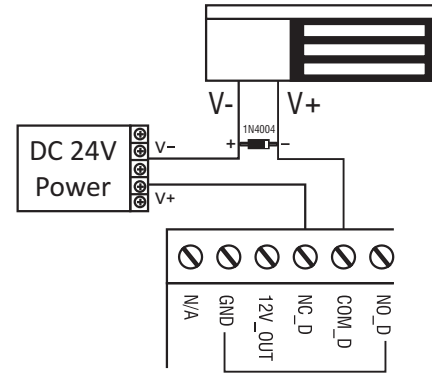
Fail Security DC 12V Lock



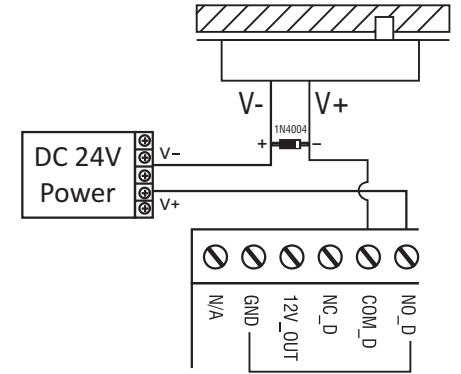
diode (1N4004)

POE RELAY BOX & DC 24V LOCK DIAGRAM

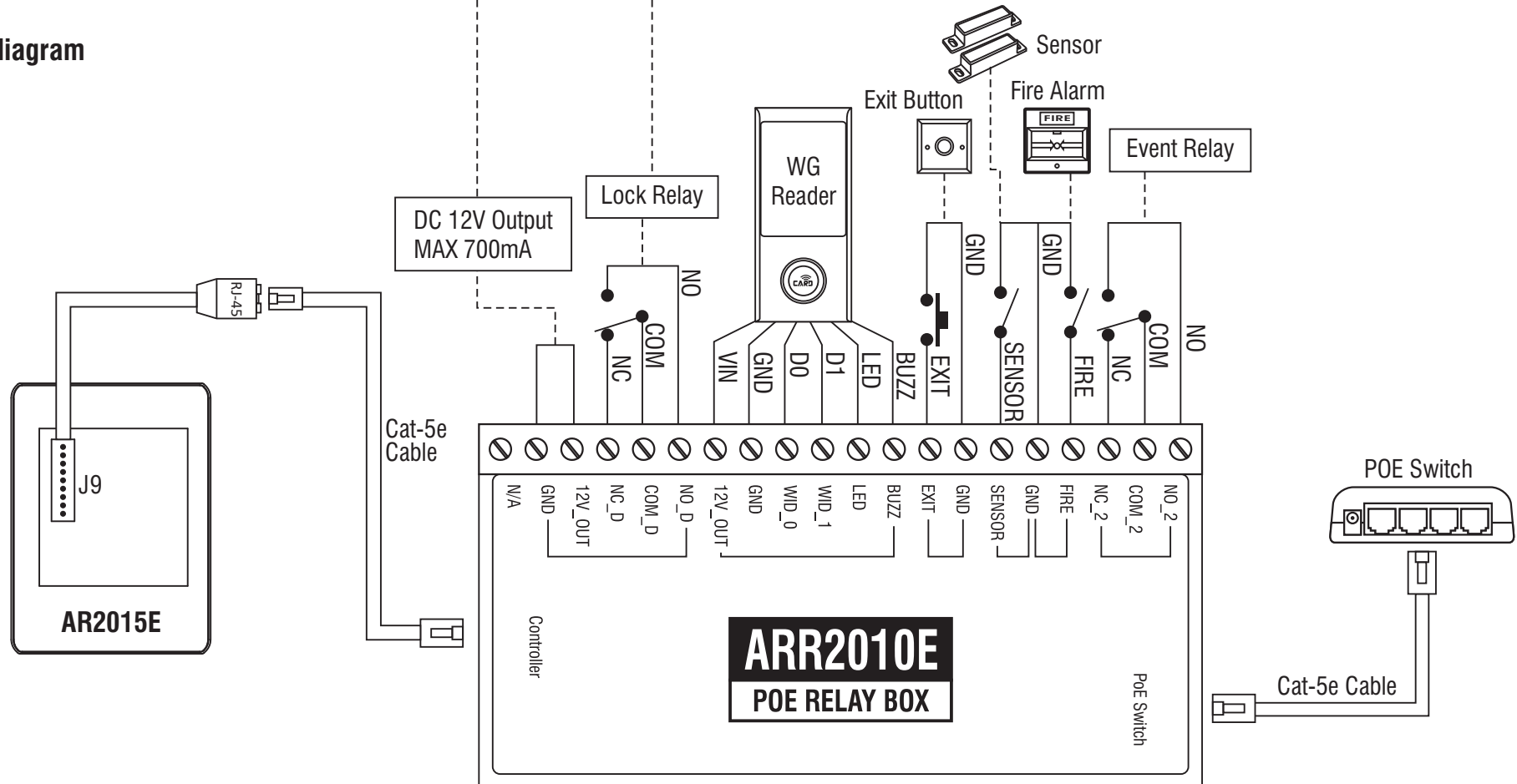
Fail Safe DC 24V Lock



Fail Security DC 24V Lock



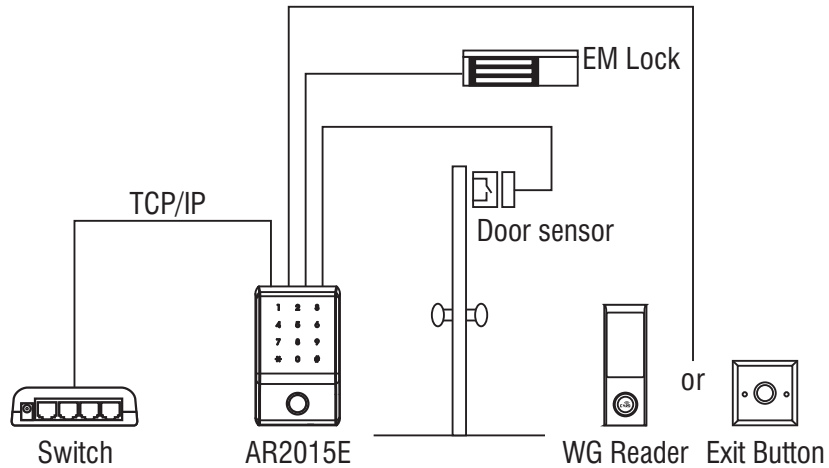
E. Wiring diagram



AR2015E Stand-alone Wiring Instructions

F. Structure

(Stand-alone + WG reader structure)



G. Cable color description

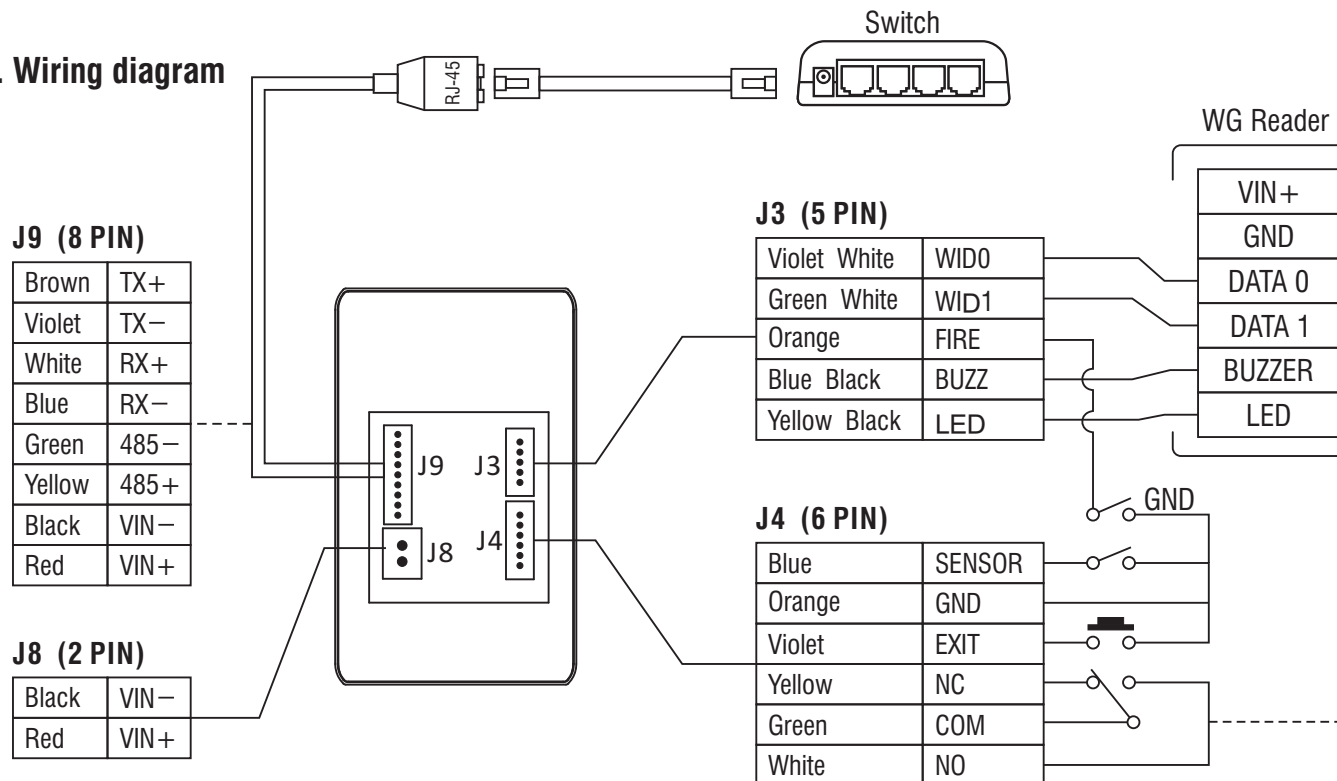
J9	1	TX+	Brown	TCP/IP
	2	TX-	Violet	
	3	RX+	White	
	4	RX-	Blue	
	5	485-	Green	RS485
	6	485+	Yellow	
	7	VIN-	Black	
	8	VIN+	Red	

J8	1	VIN-	Black	Power Input DC9-24V/ 500mA
	2	VIN+	Red	

J3	1	WID0	Violet White	Wiegand Input
	2	WID1	Green White	
	3	FIRE	Orange	Fire Alarm
	4	BUZZ	Blue Black	Control WG Reader LED and Buzzer
	5	LED	Yellow Black	

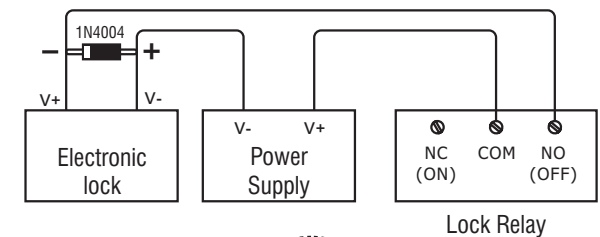
J4	1	SENSOR	Blue	Sensor
	2	GND	Orange	GND
	3	EXIT	Violet	Exit Button
	4	NC	Yellow	Door Relay
	5	COM	Green	
	6	NO	White	

H. Wiring diagram

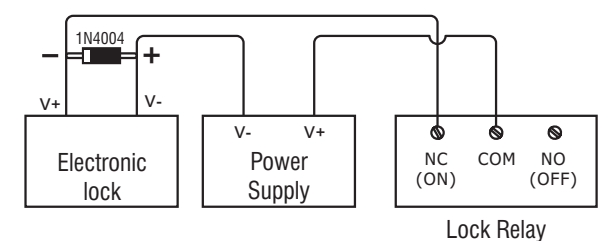


※ Door Relay Connect.

• Power off Lock



• Power on Lock



I. Command instructions

Configuration Parameters	Action	Explanation
User ID number	UUUUUU	1~6 digits (standard version: 20,000)
Number of cards you want to register in WebPass	QQQQQQ	1~6 digits
Password	PPPPPPP	4~8digits
Command	Action	Explanation
Enter to command mode	*123456#	Default password: 123456 , Buzzer long beeps after entered to command mode. On Command Mode: Blue and Red LEDs blink at same time. After 10sec, it will back to Normal mode: Blue LED blink per second. Command Error: 1 long beep
Password modification for entering command mode	06*AAAAAA*BBBBBB*CCCCC#	AAAAAA : Old password BBBBBB : New password CCCCC : New password again ※ Password is 4~6 digits
Door open relay configuration (Door close delay time)	02*TTTT#	Time setting: 1-65535secs/ Default :10sec
Door open waiting time(Door open delay time)	03*TTTT#	Time setting:1~65535 sec/Default:10sec
System time setting	04*HHMMSS#	HHMMSS=Hour/Minute/Second(24H)
System date setting	05*YYMMDDX#	YYMMDDX=Year/Month/Date/Weekday (YY=AD last two digit= 2009=09)
Setting for TID no. (Terminal ID)	07*TTTT#	TID no. can be: 1 ~ 65535
Access control setting (Relay)	08*T#	T= 0/1/2 → Force Open/ Force Close/Back to Normal
Verification mode setting	09*T#	T =1~4 1 : Card, Common Password, or Personal Password 2 : Card only 3 : Common Password or Personal Password 4 : Card and Personal Password
Common Password setting	10*PPPPPPP#	★ Default is 1234, Please go to web to remove it.
Add single user	11*UUUUUU# read card	Scan card for registration (LED blue & red lighten)
Add single card + password user	11*UUUUUU*PPPPPPP# read card	Scan card for registration (LED blue & red lighten)
Add many users: card numbers are continuous	12*UUUUUU*QQQQQQ# read card	Scan the smallest card number to Reader
Add many users: card numbers are discontinuous	13*UUUUUU*QQQQQQ# read card	Scan the cards one by one to Reader
Disable user account(User status : Cancel)	14*UUUUUU#	
Enable user account (User status: Active)	15*UUUUUU#	
User password modification	16*UUUUUU*PPPPPPP#	4~8 digits (Password)
Modify user card Number	17*UUUUUU# read card	
Delete single user account	21*UUUUUU#	
Delete. Multi user accounts (card numbers are continuous)	22*UUUUUU*QQQQQQ#	
Delete all of user accounts	23*29*#	
Exit from command Mode	*#	