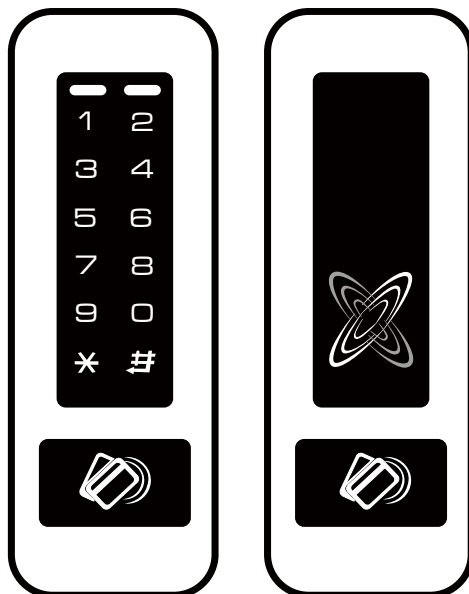


Slim Design Multi-Function Reader



1. Product Features

Slim Design Multi-Function Reader **AR-331-K/U**

- Elegant and slim design, suitable for installation in narrow place, metal housing enhances collision resistance

2. How to Order

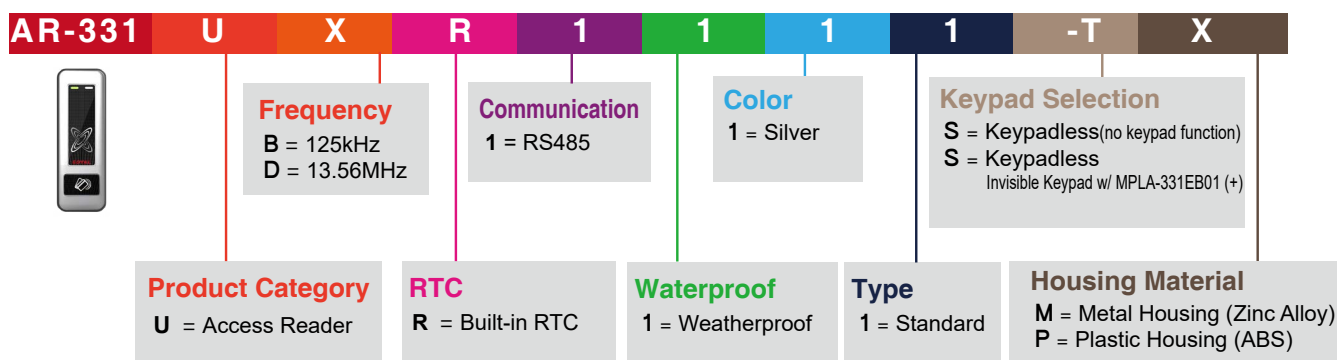
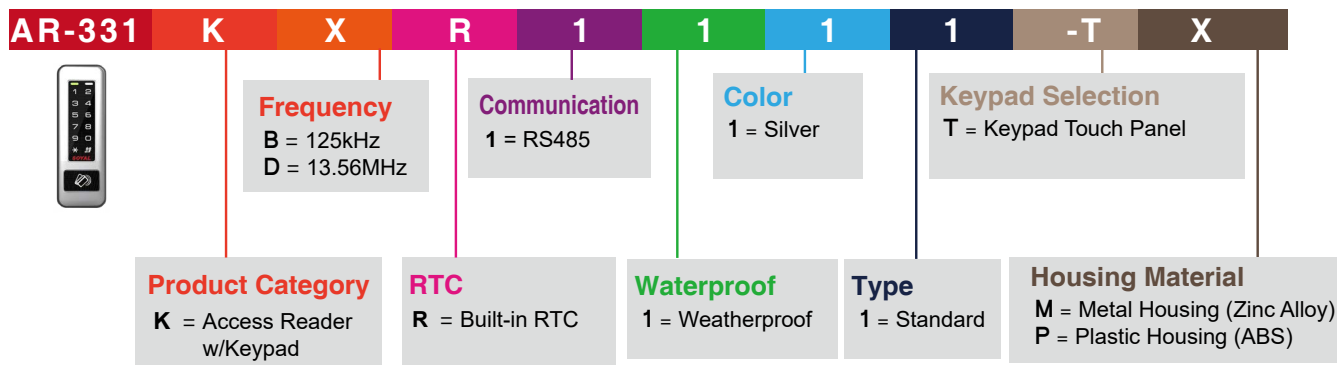


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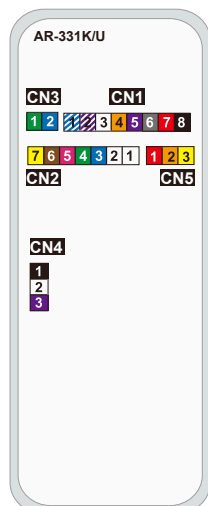
01. Notice	01
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06. Contents	03

01. Notice

- 1.Tubing:** The communication wires and power line should NOT be bound in the same conduit or tubing.
- 2.Wire selection:** Use AWG 22-24 Shielded Twist Pair to avoid star wiring.
- 3.Power supply:** Don't equip controller and lock with the same power supply. The power for controller may be unstable when the lock is activating, that may make the controller malfunction.
The standard installation: Door relay and lock use the same power supply, and controller use independent power supply.

02. AR-331K / AR-331U Terminal Cable (125kHz / 13.56MHz)

Type A



Cable : CN1

Wire Application	Pin	Color	Description
	1	Blue White	
	2	Purple White	
	3	White	
Output Selection	4	Orange	SET2
	5	Purple	SET1
Card Present	6	Gray	Reading card Active Low
Power	7	Red	DC Power 12V
	8	Black	DC Power 0V

Cable : CN2

Wire Application	Pin	Color	Description
	1		
	2		
	3	Blue	
	4	Green	
Beeper	5	Pink	Beeper Output 5V/100mA, Low
LED	6	Brown	LED Green Output 5V/20mA, Max
	7	Yellow	LED Red Output 5V/20mA, Max

Cable : CN4

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

Cable : CN5

Wire Application	Pin	Color	Description
GND.	1	Black	GND.
WG Output	2	White	WG 0 Output
	3	Purple	WG 1 Output

Cable : CN3

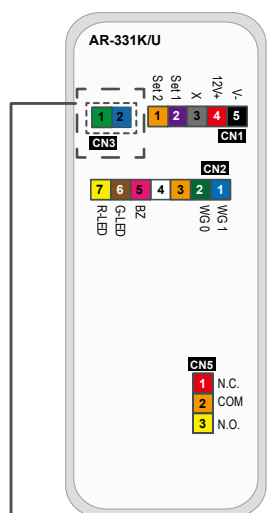
Wire Application	Pin	Color	Description
RS-485 Port	1	Green	RS-485(B-)
	2	Blue	RS-485(A+)

WG/ABA Format

Adjust wiring method: connect the orange wire (WG34) to ground.

Format	SET 1	SET 2	Note
WG 26	Open	Open	HEX
WG 34	Open	To GND	HEX
ABA-10	To GND	Open	BCD10
ABA-5-5	To GND	To GND	BCD

Type B



Cable : CN1

Wire	Pin	Color	Description
WG Format	1	Orange	SET2
	2	Purple	SET1
Reserved	3	X	Reserved
Power	4	Red	DC Power 12V
	5	Black	DC Power 0V (GND)

Cable : CN5

Wire	Pin	Color	Description
Tamper Contact	1	Red	N.C.
	2	Orange	COM
	3	Yellow	N.O.

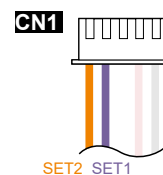
Cable : CN2

Wire Application	Wire	Color	Description
WG Output	1	Blue	Wiegand DAT:1 Output
	2	Green	Wiegand DAT:0 Output
Card Present	3	Orange	Card Present
Reserved	4	X	Reserved
Beeper	5	Pink	Beeper Negative Input
LED	6	Brown	LED Green Negative Input
	7	Yellow	LED Red Negative Input

Cable : CN3 (For 331KD/UD only; 331KB/UB must by order)

Wire	Pin	Color	Description
Networking	1	Thick Green	RS-485(B-)
	2	Thick Blue	RS-485(A+)

For Cable CN1 WG Output Format

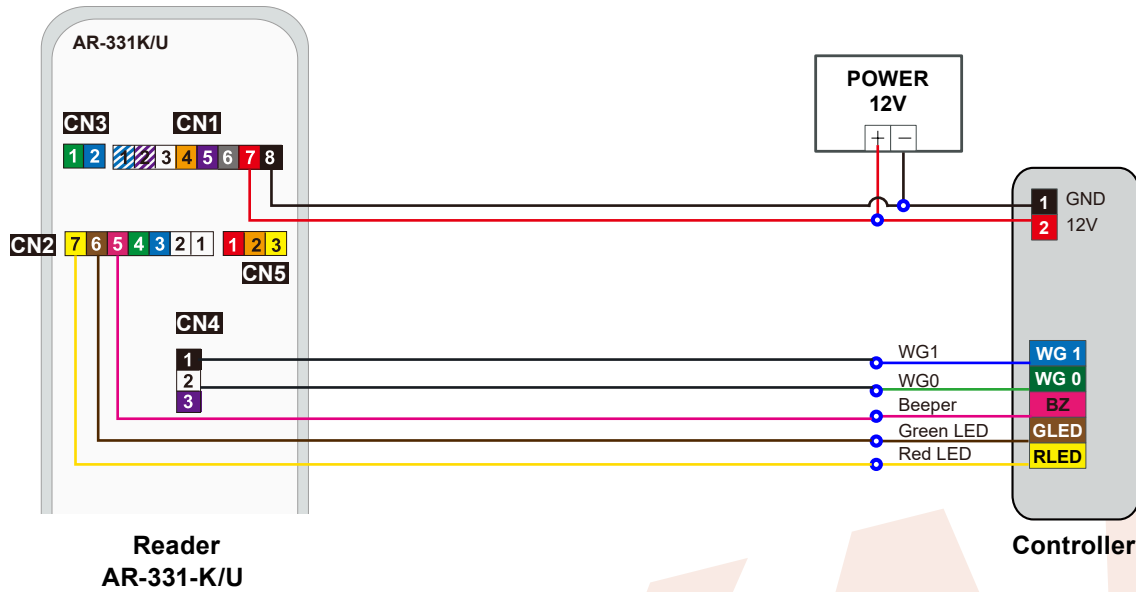


WG Output Selection

Output Format	SET 1	SET 2
WG-26	Open	Open
WG-34	Open	Short to GND
ABA-10	Short to GND	Open

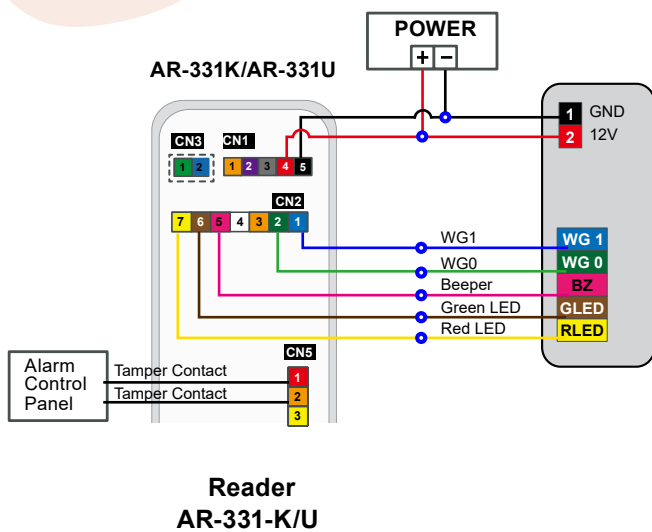
03. Wiring Diagram

Type A- Mifare(13.56MHz)

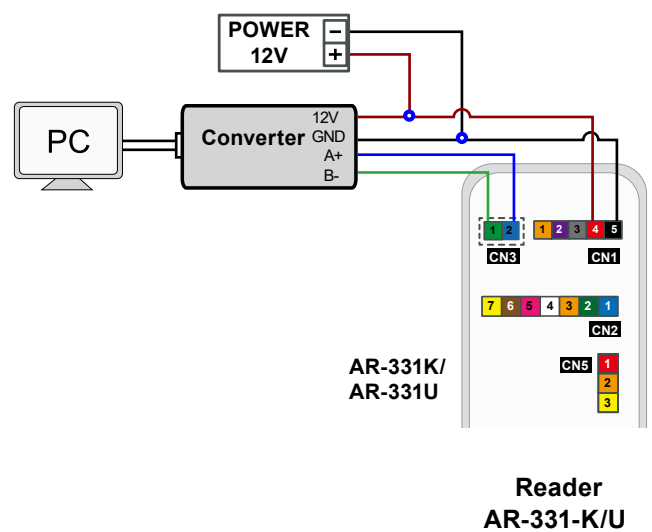


Type B

1. Connect to Reader

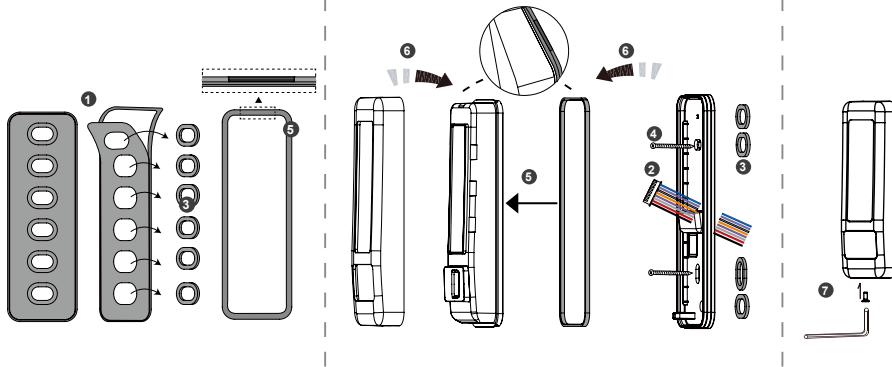


2. Networking Diagram (13.56MHz Only / 125kHz required)



04. Installation Instructions

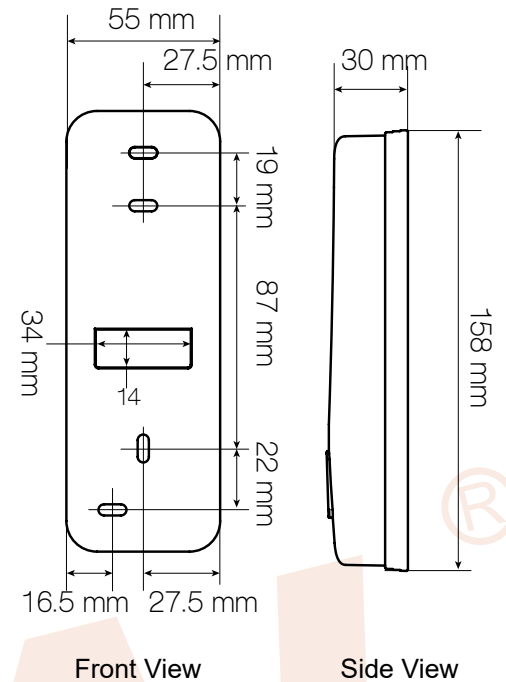
AR-331K/AR-331U



- Remove the rubber plug.
- To cut tamper-resistant column and make it fit the appropriate height for actual installation.
- First, take off the metal casing then screw the controller on the wall.
- Second, put the metal casing back and lock it with security screw.
- Finally, put the rubber plug into the hole.
- Turn on the power, and LED will light and beep will sound.

05. Installation Dimensions

AR-331K/AR-331U



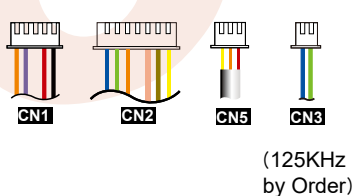
06. Contents

AR-331K [With Illuminated Key] / AR-331U [W/O Illuminated Key]

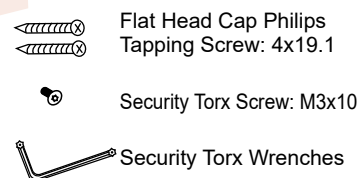
1 Product



2 Terminal Cables



3 Tools



4 Accessories

